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SCS ENGINEERS

March 7, 2007
Project Number: 01203087.02

Mr. Jerry Wickham
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502
Phone (510) 567-6791
Fax (510) 337-9335

Subject: **Submittal of Additional Site Investigation Report**
Freisman Ranch Property
1600 Freisman Road
Livermore, California

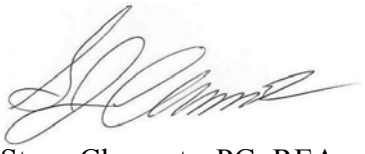
Dear Mr. Wickham:

On behalf of our client, Children's Hospital Medical Foundation (Children's Hospital), attached is the *Additional Site Investigation Report* prepared by SCS Engineers (SCS) for the Freisman Ranch Property located at 1600 Freisman Road, Livermore, California..

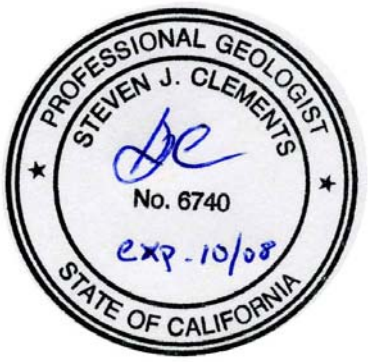
"I declare, under penalty of perjury, that the information and recommendations contained in the attached report are true and correct to the best of my knowledge."

Please contact Steve Clements at (925) 240-5152 if you have any questions or comments regarding this submittal.

Sincerely,



Steve Clements, PG, REA
Project Manager
SCS Engineers



cc: Emily De Falla – Children's Hospital
Tom Terrill – The Terrill Company

ADDITIONAL SITE INVESTIGATION REPORT
FREISMAN RANCH PROPERTY
1600 FREISMAN ROAD
LIVERMORE, CALIFORNIA

Prepared for:

Children's Hospital and Research Center Foundation
5225 Dover Street
Oakland, California 94609-1809

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SCS Engineers
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Pleasanton, California 94566

March 7, 2007
File No. 01203087.02

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This Additional Site Investigation Report for the Freisman Ranch Property, Livermore, California, dated March 7, 2007 has been prepared and reviewed by the following:

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Staff Scientist

Steve Clements P.G., R.E.A.
Project Manager
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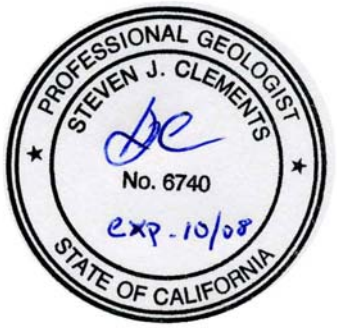

ADDITIONAL SITE INVESTIGATION REPORT
FREISMAN RANCH PROPERTY
1660 FREISMAN ROAD
LIVERMORE, CALIFORNIA

INTRODUCTION

OBJECTIVES AND SCOPE OF WORK

Children's Hospital of Oakland California retained SCS Engineers (SCS) to perform an Additional Site Investigation at the Freisman Ranch property located at 1600 Freisman Road in Livermore, California (the "Property"). Figure 1 is a Site Location Map and Figure 2 is a Site Plan.

The Additional Site Investigation was conducted in accordance with the *Revised Response to Comment/Workplan* (SCS, October 19, 2006) as approved by Alameda County Environmental Health (ACEH) on October 30, 2006. The additional Site Investigation included the following tasks: 1) Monitoring of all existing onsite groundwater monitoring wells and the onsite water supply well, 2) Soil vapor survey, 4) Drilling and sampling of three soil borings/temporary wells, and 5) Collection of shallow soil samples in the vicinity and downwind of the former onsite incinerator. All investigation tasks were conducted by SCS personnel between January 8 and 11, 2007.

SITE HISTORY

The Property was first developed in approximately 1910 with houses, barns and outbuildings associated with the former onsite dairy. Dairy operations ceased in 1971, and since that time the Property has been used for residential housing, miscellaneous storage, and animal boarding/grazing (horses, cattle, etc.). During a Phase I Environmental Site Assessment conducted in 1997, petroleum hydrocarbons were detected in soil samples collected from the vicinity of the two boilers and in soil and groundwater samples collected in the driveway between the boilers and a metal shed, which historically housed a fuel oil above ground storage tank (AST) (Kleinfelder, 1997a).

The apparent source of petroleum hydrocarbon contamination at the Property was the former heating oil AST used to fuel the two boilers (Kleinfelder, 1997b). Heating oil is typically composed of diesel range and gasoline range hydrocarbons (Bruya, 1993). In order to remove remaining secondary sources of petroleum hydrocarbon contamination at the Property SCS removed the two boilers, the metal shed which historically housed the former heating oil AST, associated underground fuel piping, and impacted soil in August and September 2003.

Six groundwater monitoring wells (*KMW-1* through *KMW-6*) were installed at the Property in 1997, at which time a quarterly groundwater sampling plan was initiated. Two additional wells (*KMW-8* and *KMW-9*) were installed at the Property in 1999. Regular groundwater monitoring had been conducted at the Property until the end of 2003. The wells were again sampled in January 2006 by H_2OGEOL of Livermore, California and in January/February 2006 by Consolidated Engineering of San Ramon, California. Results of the H_2OGEOL monitoring event, which had not previously been submitted to ACEH, are provided in Appendix A.

ADDITIONAL SITE INVESTIGATION

REGULATORY THRESHOLDS

In an effort to evaluate the relative significance of chemical concentrations detected during this investigation SCS Engineers has compared analytical data to the residential Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB). ESLs were developed to address the environmental protection goals established the San Francisco Bay Basin Water Quality Control Plan and are protective of human health, drinking water resources, and aquatic and terrestrial ecosystems. Future property is undetermined, as such residential ESLs are appropriate for the site. Chemical detected at concentrations below ESLs are generally assumed to not pose a significant threat to human health or the environment

FIELD PREPARATION ACTIVITIES

Underground Service Alert (USA) of Northern California was notified a minimum of 48 hours prior to beginning subsurface sampling activities to evaluate the investigation areas for underground utilities. In addition SCS contracted with California Utility Locators of San Ramon, California to conduct a utility survey at the investigation areas on January 9, 2007 as an additional check for underground utilities.

Prior to drilling activities, a drilling permit was obtained from Zone 7 Water Agency, authorizing drilling for the purpose of collecting soil vapor, soil, and groundwater samples as part of this investigation. Permit documentation is included as Appendix B.

TASK 1: GROUNDWATER MONITORING

Groundwater monitoring activities were performed by SCS on January 8 and 9, 2007. The locations of onsite groundwater monitoring wells (*KMW-1* through *KMW-8*) are shown on Figure 2. A description of the sampling procedures and summary of analytical results are provided below:

Materials and Methods

Prior to measuring water levels all monitoring wells were opened and ventilated for a minimum of 0.5 hour. The depth to water was then measured to the nearest 0.01-foot using an electronic water-level meter. Dissolved oxygen (DO) concentrations were then measured using a YSI-55 down-hole DO meter.

Well *KMW-2* contained densely packed roots at the waterline. A stainless steel grappling hook attached to bailer cord was used to grab the roots and pull them out of the well. The hook and cord were decontaminated prior to and after use as described below. This process was continued until several large clumps of roots were removed and access to the well was unobstructed.

Groundwater level information is shown on Table 1. Figure 3 shows the potentiometric surface contours for shallow groundwater beneath the site. As shown in Figure 3, the approximate groundwater flow direction beneath the site on January 8, 2007 was northwesterly to westerly with a gradient of approximately 0.008 feet/foot.

All site monitoring wells were purged and sampled using a peristaltic pump and low flow methodology. Dedicated 21-foot long sections of 0.25-inch inner diameter polyethylene tubing were installed in each well. The tubing sections were used for purging and sampling, and then left in each well as dedicated tubes for future sampling. Each well was initially purged until one system volume was removed from each well. Purging then continued at an approximate rate of 200 milliliters per minute (ml/min) while field parameters were continuously measured and allowed to stabilize. The depth to water was also measured during purging to ensure that well drawdown was less than four inches. Measured field parameters included pH, temperature, electrical conductivity (EC), and turbidity, and notations were made as to the odor and color of the water being purged. Field parameter measurements are summarized in Table 2.

Following purging groundwater samples were collected using the peristaltic pump. Groundwater samples were placed in appropriate pre-cleaned laboratory supplied sample containers. Samples were labeled, logged, and placed into a chilled cooler for later transport to the McCampbell Analytical laboratory (McCampbell) located in Pittsburg, California for analysis. McCampbell is certified by the California Department of Health Services (DHS) Environmental Laboratory Accreditation Program (ELAP) for the specific analyses performed.

A groundwater sample was also collected for analysis from onsite water supply well No. 3S/1E 2P3. The water supply well uses a dedicated submersible pump, which pumps water into a pressure tank before exiting through a spigot. Sampling procedures consisted of allowing 5 gallons to run out of the spigot prior to collecting one set of field parameters followed by the collection of the groundwater sample. The groundwater sample from well No. 3S/1E 2P3 was handled as described above for samples from the monitoring wells.

All non-dedicated groundwater monitoring equipment, (i.e., water level meters, DO meter, measuring cup, etc.) was decontaminated prior to measuring, purging, and sampling and between wells using a biodegradable detergent (Liquinox) and three stage distilled water wash and rinse. All decontamination water and purge water was sealed in one 5-gallon bucket, labeled, and left on-site pending characterization for off-site disposal.

Analytical Results

Groundwater well samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g), TPH as diesel fuel (TPH-d) with silica gel cleanup, and TPH as stoddard solvent (TPH-ss) using EPA Method 8015C. All groundwater well samples were also analyzed for volatile organic compounds (VOCs) including benzene, ethylbenzene, toluene, and xylenes (BTEX), MTBE, 1,2-dichloroethane, and ethylene dibromide (EDB) using EPA Method 8260B, and for dissolved lead using Method E200.8. Analytical results are summarized below and in Table 3. The analytical report and chain-of-custody documentation are provided in Appendix C.

- **TPH-g** was detected in groundwater samples collected from wells *KMW-6* and *KMW-7* at concentrations of 180 micrograms per liter (ug/L) and 330 ug/L, respectively. These concentrations exceed the 100 ug/L ESL established for TPH-g in groundwater that is a current or potential source of drinking water. TPH-g was not detected in groundwater samples collected from the remaining site wells.

- **TPH-d** was detected in groundwater samples collected from wells *KMW-6* and *KMW-7* at concentrations of 53 ug/L and 84 ug/L, respectively. These concentrations are below the 100 ug/L ESL established for TPH-d in groundwater that is a current or potential source of drinking water. TPH-d was not detected in groundwater samples collected from the remaining site wells.

- **TPH-ss** was detected in groundwater samples collected from wells *KMW-6* and *KMW-7* at concentrations of 70 ug/L and 110 ug/L, respectively. The concentration detected in well KMW-7 exceeds the 100 ug/L ESL established for TPH-ss in groundwater that is a current or potential source of drinking water. TPH-ss was not detected in groundwater samples collected from the remaining site wells.

- **Benzene** was detected in the groundwater sample collected from well *KMW-6* at a concentration of 3.1 ug/L. This concentration exceeds the 1 ug/L ESL established for benzene in groundwater that is a current or potential source of drinking water. Benzene was not detected in groundwater samples collected from the remaining site wells.

- **Ethylbenzene** was detected in groundwater samples collected from wells *KMW-6* and KMW-7 at concentrations of 1.9 ug/L and 0.57 ug/L, respectively. These concentrations are below the 30 ug/L ESL established for ethylbenzene in groundwater that is a current or potential source of drinking water. Ethylbenzene was not detected in groundwater samples collected from the remaining site wells.

- **Xylenes** were detected in groundwater samples collected from wells *KMW-6* and *KMW-7* at concentrations of 0.65 ug/L, and 3.2 ug/L, respectively. These concentrations are below the 20 ug/L ESL established for xylenes in groundwater that is a current or potential source of drinking water. Xylenes were not detected in groundwater samples collected from the remaining site wells.

- **Naphthalene** was detected in groundwater samples collected from wells *KMW-6* and *KMW-7* at concentrations of 3.2 ug/L and 0.72 ug/L, respectively. These concentrations are below the 17 ug/L ESL established for naphthalene in groundwater that is a current or potential source of drinking water. Naphthalene was not detected in groundwater samples collected from the remaining site wells.

- **1,2-dichloroethane (1,2-DCA)** was detected in the groundwater sample collected from well *KMW-6* at a concentration of 0.72 ug/L. This concentration exceed the 0.5 ug/L ESL established for 1,2-DCA in groundwater that is a current or potential source of drinking water. 1,2-DCA was not detected in groundwater samples collected from the remaining site wells.

- **1,2,4-Trimethylbenzene** was detected in the groundwater sample collected from well *KMW-7* at a concentration of 1.3 ug/L. ESLs have not been established for 1,2,4-trimethylenzene. 1,2,4-Trimethylbenzene was not detected in groundwater samples collected from the remaining site wells.

- In addition, low concentrations (<2 ug/L each) of the VOCs **n-butyl benzene**, **isopropylbenzene**, and **n-propyl benzene** were detected in the groundwater sample collected from well *KMW-6*. ESLs have not been established for these VOCs. These VOCs were not detected in groundwater samples collected from the remaining site wells.

- **MTBE** and the remaining EPA Method 8260B VOCs were not detected in groundwater samples collected from any of the site wells.

- **Dissolved lead** was not detected in groundwater samples collected from any of the site wells.

In summary, constituents of concern were only detected in groundwater samples collected from monitoring wells *KMW-6* and *KMW-7*. This is consistent with past monitoring conducted by SCS. TPH-g, TPH-ss, benzene, and 1,2-DCA were the only compounds detected in the groundwater samples at concentrations exceeding ESLs. Based on this data and previous data collected by SCS, the extent of impacted groundwater at the Property appears to be limited to the area near wells *KMW-6* and *KMW-7*. Constituents of concern were not detected by SCS in perimeter monitoring wells *KMW-4*, *KMW-5*, and *KMW-8*.

TASK 2: SOIL VAPOR SURVEY

Transglobal Environmental Geochemistry (TEG) of Rancho Cordova, California, conducted soil vapor sampling and analysis activities at the Property on January 10 and 11, 2007 under the direction of SCS personnel. The survey consisted of the collection of 22 soil vapor samples (*SV-1* through *SV-22*) in the following three areas: 1) Former above-ground heating oil tank and vicinity including areas above the known plume of impacted groundwater, 2) Former paint and thinner storage areas in and around Barn No. 1, and 3) Vicinity of the former above-ground fuel storage tanks near Barn No. 4. Soil vapor sample locations are shown on Figure 4. All soil vapor sampling and analysis was done using Department of Toxic Substance Control (DTSC) protocols.

Materials and Methods

Prior to sampling where concrete existed, an approximately 2-inch diameter hole was cored through the concrete using an electric rotary hammer. Soil vapor samples were collected at depths of approximately 5 feet below ground surface (bgs). A state-certified, onsite mobile laboratory provided by TEG was used to analyze the soil vapor samples immediately in the field.

Soil vapor sampling equipment consisted of hollow steel drive rods, which were pushed directly into subsurface soils using an electric rotary hammer or TEG's Strataprobe truck mounted hydraulically powered direct push sampling rig. An expendable drive tip is placed on the drive rod before it is pushed into the ground. Soil vapor samples were recovered by slightly retracting the probe and exposing sampling ports on the drive point. Bentonite was then added to the gap between the drive rod and the cored hole and hydrated to prevent surface air entry into the probe. After hydration TEG let the bentonite set for twenty minutes prior to sampling. Vapor samples were

extracted with a syringe via a Nylaflow tube attached to the drive tip. Prior to sampling, the tubing was purged to remove ambient air from the sampling system and to ensure that the collected soil vapor sample represented conditions in the soil. Clean Nylaflow tubing was utilized for each sample.

During sampling a can containing compressed 1,1-diflouroethane (Dust Off) was expelled over the sampling system. Analysis for 1,1-diflouroethane was conducted as a check for a compromise in the sampling system. 1,1-diflouroethane was not detected in any of the samples. Duplicate samples, calibration standards, and sample blanks were used to provide Quality Assurance/Quality Control (QA/QC). Following analysis all drive rods were removed and each borehole was sealed with Portland cement grout.

Analytical Results

Soil vapor samples were analyzed on-site using TEG's state-certified mobile laboratory and were analyzed for VOCs using EPA Method 8260B including analysis for benzene using a reporting limit (RL) of 0.08 µg/L. Soil vapor data is summarized on Table 4 and TEG's analytical report is supplied in Appendix D.

- **Toluene** was detected in 5 of the 22 soil vapor samples at concentrations ranging from 0.2 to 0.52 ug/L of vapor. These concentration are below the 63 ug/L residential ESL established for toluene in soil vapor.

- **Xylenes** were detected in 9 of the 22 soil vapor samples at concentrations ranging from 0.21 ug/L of vapor to 0.58 ug/L of vapor. These concentration are below the 150 ug/L residential ESL established for xylenes in soil vapor.

- **Remaining EPA Method 8260B VOCs**, including benzene, were not detected in soil vapor samples.

In summary, VOCs were not detected in soil vapor samples at concentrations exceeding residential ESLs.

TASK 3: SOIL BORINGS/TEMPORARY WELLS

TEG conducted soil sampling activities on January 11, 2007 under the direction of SCS personnel. Three borings (*SCS-1* through *SCS-3*) were drilled using TEG's *Strataprobe* direct-push sampling rig. Soil samples were collected approximately 5 foot depth intervals to the total depth of each boring. Groundwater samples were also collected from each boring. Sampling locations are shown on Figure 4. Boring logs are provided in Appendix E.

Materials and Methods - Soil

Continuous soil cores were obtained by hydraulically hammering 2.25-inch diameter, four-foot long hollow steel drive rods containing acetate sample sleeves to the depth of first encountered groundwater (16 to 28 feet bgs). Upon retrieval, the acetate sleeve containing the soil core was removed from the hollow drive rod and an approximately one foot long portion of the sleeve was cut from the desired sample depth. Immediately following soil sample collection, both ends of the cut acetate sleeve were covered with Teflon sheets, capped with plastic end caps, and taped with polyethylene tape. A label noting the date of collection, sample number, depth, and project number was affixed to each collected sample.

The remainder of the acetate sleeve was used for soil logging purposes using the Unified Soil Classification System and for VOC head space analysis. For the head space analysis, Ziploc plastic bags were partially filled with soil from each sample location. The sealed plastic bags were allowed to sit approximately 30 minutes to allow for volatilization before field measurements were collected using a MiniRAE 2000 Photo-Ionization Detector (PID) calibrated to 100 parts per million Isobutylene. Field measurements are recorded on the boring logs.

Soil samples were placed in a chilled cooler for later transport to McCampbell. Soil samples were tracked from the point of collection through the laboratory using proper chain-of-custody protocol.

Materials and Methods – Groundwater

After soil borings reached their desired depth as described above a temporary well screen and casing was installed with in each boring. Well casings consisted of a 0.5 inch diameter by four foot long section of Schedule 40 PVC screen with 0.020 inch factory cut slots attached to blank PVC casing extending to ground surface. A slip end cap was attached to the bottom of each screen. After casing placement each well was left for 10 to 15 minutes to allow groundwater to infiltrate the casing for sampling. Samples were collected using a "shaker tube" consisting of a stainless steel tip containing a ball check valve attached to the end of dedicated 3/8 polyethylene tubing. Water flow was achieved by inserting the tube though the well casing to the bottom and shaking the tube up and down in a continuous motion. Before collecting the first groundwater sample and between samples the stainless steel tip was decontaminated using standard decontamination procedures described above.

Groundwater samples were collected in 40 ml glass bottles (VOAs), 500 milliliter plastic bottles, and 1 liter amber bottles supplied by McCampbell. New Nitrile gloves were worn for each sample.

All non-dedicated sampling equipment, (i.e., drive rods, etc.) were decontaminated initially and between each boring using a biodegradable detergent (Liquinox) and standard three stage distilled water wash and rinse.

Analytical Results – Soil

Selected samples were analyzed for TPH-g, TPH-d, and TPH-ss using EPA Method 8015C and for VOCs using EPA Method 8260B. Analytical results for the soil samples are summarized on Table 5. The laboratory report and chain-of-custody documentation for these samples is provided in Appendix F.

- **TPH-g, TPH-d,** and **TPH-ss** were not detected in any of the analyzed soil samples.

- **EPA Method 8260B VOCs** including **benzene** were not detected in any of the analyzed soil samples.

In summary, VOCs were not detected in soil samples collected from borings/temporary wells *SCS-1*, *SCS-2*, and *SCS-3* at concentrations exceeding residential ESLs.

Analytical Results - Groundwater

Groundwater samples were analyzed for TPH-g, TPH-d, and TPH-ss using EPA Method 8015C, for VOCs using EPA Method 8260B, and for dissolved lead using Method E200.8. Analytical results for boring/temporary well groundwater samples are summarized in Table 6. The laboratory report and chain-of-custody documentation for these samples is provided in Appendix F.

- **TPH-g, TPH-d,** and **TPH-ss** were not detected in groundwater samples collected from the borings/temporary wells.

- **Bromomethane** was the only EPA Method 8260B VOC detected in groundwater samples collected from the borings/temporary wells. Bromomethane was detected at a concentration of 1.1 ug/L in the groundwater samples collected from boring/temporary well *SCS-1*. This concentration is below the 9.8 ug/L ESL established for Bromomethane in groundwater that is a current or potential source of drinking water.

- **Dissolved Lead** was not detected in groundwater samples collected from the temporary wells.

In summary, VOCs and total lead were not detected in groundwater samples collected from borings/temporary wells *SCS-1*, *SCS-2*, or *SCS-3* at concentrations exceeding ESLs established for groundwater that is a current or potential source of drinking water.

TASK 4: SURFACE SOIL INVESTIGATION (FORMER INCINERATOR AREA)

Surface soil samples *SS-1* through *SS-14* were collected in the vicinity of the former onsite incinerator by SCS personnel on January 9 and 10, 2007. The purpose of these samples was to more fully evaluate surface soil conditions in the vicinity and downwind of the former onsite incinerator. In October 2003 the incinerator was dismantled and nearby impacted soil was excavated and transported off-site to the Vasco Road Landfill in Livermore, California for disposal.

Surface soil sample locations included the area immediately outside the former incinerator excavation area and the area to the east directly across the creek from the incinerator (downwind direction). Sample locations are shown on Figure 5 and the analytical results are summarized on Table 7. The laboratory analytical report and chain-of-custody documentation are provided in Appendix G.

Materials and Methods

At each sample location the top one to two inches of soil was first scraped away using a clean trowel. A pre-cleaned, laboratory supplied sample jar was then used to scoop and collect each sample. The soils were sandy and loose allowing for easy sample collection. Between samples the hand trowel was decontaminated using a biodegradable detergent (Liquinox) and three stage distilled water wash and rinse. All decontamination water was sealed in a 5-gallon bucket, labeled, and left on-site pending characterization. Following collection each sample was labeled, logged, and placed into a chilled cooler for later transport to McCampbell. All samples were handled using standard chain-of-custody procedures.

Analytical Results

All shallow soil samples were analyzed for the metals arsenic, cadmium, chromium, lead, mercury, nickel, and zinc using EPA Method 6020A.

- **Arsenic** was detected in all 14 surface soil samples. In 11 of the 14 samples concentrations ranged from 2.5 milligrams per kilogram (mg/kg) to 4.6 mg/kg. Arsenic was detected in samples *SS-11*, *SS-13*, and *SS-14* at concentrations of 9.6 mg/kg, 5.7 mg/kg, and 10 mg/kg, Respectively. These concentrations exceed the 5.5 mg/kg residential ESL established for arsenic in shallow soils. However, the detected arsenic concentrations are within the background range reported for northern California soils (City of Oakland, July 2000).

- **Cadmium** was detected in surface soil samples *SS-11*, *SS-12*, and *SS-14* at concentrations of 0.30 mg/kg, 0.38 mg/kg, and 0.73 mg/kg respectively. These concentrations are below the 1.7 mg/kg residential ESL established for cadmium in shallow soils.

- **Chromium** was detected in all 14 surface soil samples at concentrations ranging from 25 mg/kg to 79 mg/kg. These concentrations are below the 750 mg/kg residential ESL established for trivalent chromium in shallow soils.

- **Lead** was detected in all 14 surface soil samples. In 13 of the 14 samples concentrations ranged from 7.3 mg/kg to 65 mg/kg. Lead was detected in sample *SS-14* at a concentration of 760 mg/kg, which exceeds the 150 mg/kg residential ESL established for lead in shallow soils.

- **Mercury** was detected in 8 of the 14 surface soil samples at concentrations ranging from 0.053 mg/kg to 0.082 mg/kg. These concentrations are below the 3.7 mg/kg residential ESL established for mercury in shallow soils.

- **Nickel** was detected in all 14 surface soil samples at concentrations ranging from 28 mg/kg to 86 mg/kg. These concentrations are below the 150 mg/kg residential ESL established for nickel in shallow soils.

- **Zinc** was detected in all 14 surface soil samples at concentrations ranging from 37 mg/kg to 510 mg/kg. These concentrations are below the 600 mg/kg residential ESL established for zinc in shallow soils.

In summary, arsenic was detected in surface soil samples *SS-11*, *SS-13*, and *SS-14* at concentrations slightly exceeding residential ESLs. However, the detected arsenic concentrations are within the background range reported for northern California soils (City of Oakland, July 2000). Lead was detected in surface soil sample *SS-14* at a concentration of 760 mg/kg, which exceeds the 150 mg/kg residential ESL established for lead. Metals were not detected in the remaining surface soil samples at concentrations exceeding residential ESLs.

DISCUSSION OF GROUNDWATER MONITORING CONDUCTED BY H_2OGEOL

As previously discussed, groundwater monitoring was conducted at the Property in January 2006 by H_2OGEOL of Livermore, California and in January/February 2006 by Consolidated Engineering of San Ramon, California. Results of the Consolidated Engineering monitoring event were previously transmitted to ACEH as part of the *Revised Response to Comment/Workplan* (SCS, October 19, 2006). Results of the H_2OGEOL monitoring event, which had not previously been submitted to ACEH, are provided in Appendix A. Results for both the H_2OGEOL and Consolidated Engineering monitoring events are included on Table 3.

Results of the Consolidated Engineering monitoring event are generally consistent with current and historic groundwater data from the Property. However, results of the H_2OGEOL monitoring event do not correlate well with current or historic groundwater data from the Property. These inconsistencies include the detection of constituents of concern in wells *KMW-2*, *KMW-5*, and *KMW-8* during the H_2OGEOL monitoring event – constituents of concern had not previously been detected in these wells and were not detected in these wells during the recent monitoring event performed by SCS. These inconsistencies and possible explanations are discussed below.

- Methyl tert Butyl Ether (MTBE) was detected in the groundwater sample collected from well *KMW-2* by H_2OGEOL at a concentration of 1.6 ug/L. However, MTBE has never been detected onsite in the past and the history of the Property suggests that possible sources of hydrocarbons in groundwater pre-date the widespread use of MTBE. In addition, the H_2OGEOL report does not describe decontamination procedures as part of their sampling protocol.

- H_2OGEOL purged the site wells using the standard three well volume method. SCS uses low-flow sampling methods for this project, as approved by ACEH.

Accordingly, the MTBE detection in well KMW-2 may be due to cross-contamination of sampling equipment. The possible cross-contamination and/or the different purging methods used may explain the inconsistencies between the H_2OGEOL data and current and historic site data.

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

This report describes Additional Environmental Investigation activities conducted at the Freisman Ranch Property in Livermore, California from January 8 through January 11, 2007. The work was conducted by SCS and included 1) Monitoring of all existing onsite groundwater monitoring wells and the onsite water supply well, 2) Soil vapor survey, 4) Drilling and sampling of three soil borings/temporary wells, and 5) Collection of shallow soil samples in the vicinity and downwind of the former onsite incinerator. The following summarizes the results and presents our recommendations for future environmental work at the Property:

TASK 1: GROUNDWATER MONITORING

Monitoring of all site wells (*KMW-1* through *KMW-8* and the water supply well) was performed by SCS on January 8 and 9, 2007. Constituents of concern were only detected in groundwater samples collected from monitoring wells *KMW-6* and *KMW-7*. This is consistent with past monitoring conducted by SCS. TPH-g, TPH-ss, benzene, and 1,2-DCA were the only compounds detected in the groundwater samples at concentrations exceeding ESLs. This data and previous data collected by SCS, suggests that the hydrocarbon plume has a relatively limited extent (vicinity of wells *KMW-6* and *KMW-7*) with generally decreasing concentrations.

However, as described above, there are inconsistencies between the January 2006 H_2OGEOL data and current and historic site data. These inconsistencies may be due to possible cross-contamination and/or the different purging methods used. In an effort to more fully evaluate these inconsistencies SCS proposes to conduct another round of well sampling (2nd quarter 2007). During this round all site wells will be purged and sampled using low flow protocols immediately followed by purging/sampling of wells *KMW-2*, *KMW-5*, and *KMW-6* though *KMW-8* using standard three purge volume protocols. All samples will be analyzed as described above for Task 1. The two sets of data will be compared with historic site data to more fully evaluate these inconsistencies.

As shown on Figure 3, the approximate groundwater flow direction beneath the site on January 8, 2007 was northwesterly to westerly with a gradient of approximately 0.008 feet/foot. This is generally consistent with past monitoring at the Property.

TASK 2: SOIL VAPOR SURVEY

The soil vapor survey was conducted by TEG on January 10 and 11, 2007 under the direction SCS. The survey consisted of the collection of 22 soil vapor samples (*SV-1* through *SV-22*) from depths of approximately 5 feet bgs at various locations across the Property. VOCs were not detected in soil vapor samples at concentrations exceeding residential ESLs. Based on this data, the potential for volatilization of VOCs from impacted groundwater to indoor air at the Property at concentrations of concern appears unlikely.

TASK 3: SOIL BORINGS/TEMPORARY BORINGS

Soil borings/temporary wells *SCS-1* through *SCS-3* were drilled and sampled on January 11, 2007 under the direction of SCS personnel. VOCs were not detected in soil samples collected from the borings/temporary wells at concentrations exceeding residential ESLs. VOCs and total lead were not detected in groundwater samples collected from borings/temporary wells at concentrations exceeding ESLs established for groundwater that is a current or potential source of drinking water.

TASK 4: SURFACE SOIL (FORMER INCINERATOR AREA)

Surface soil samples *SS-1* through *SS-14* were collected in the vicinity of the former onsite incinerator by SCS personnel on January 9 and 10, 2007. The purpose of these samples was to more fully evaluate surface soil conditions in the vicinity and downwind of the former onsite incinerator.

Arsenic was detected in surface soil samples *SS-11*, *SS-13*, and *SS-14* at concentrations slightly exceeding residential ESLs. However, the detected arsenic concentrations are within the background range reported for northern California soils (City of Oakland, July 2000). Lead was detected in surface soil sample *SS-14* at a concentration of 760 mg/kg, which exceeds the 150 mg/kg residential ESL established for lead.

SCS recommends additional excavation and proper off-site disposal of the lead-impacted soil in the vicinity of soil sample SS-14. During the additional excavation confirmatory soil samples should be collected and analyzed to confirm removal of soil impacted with elevated concentrations of lead.

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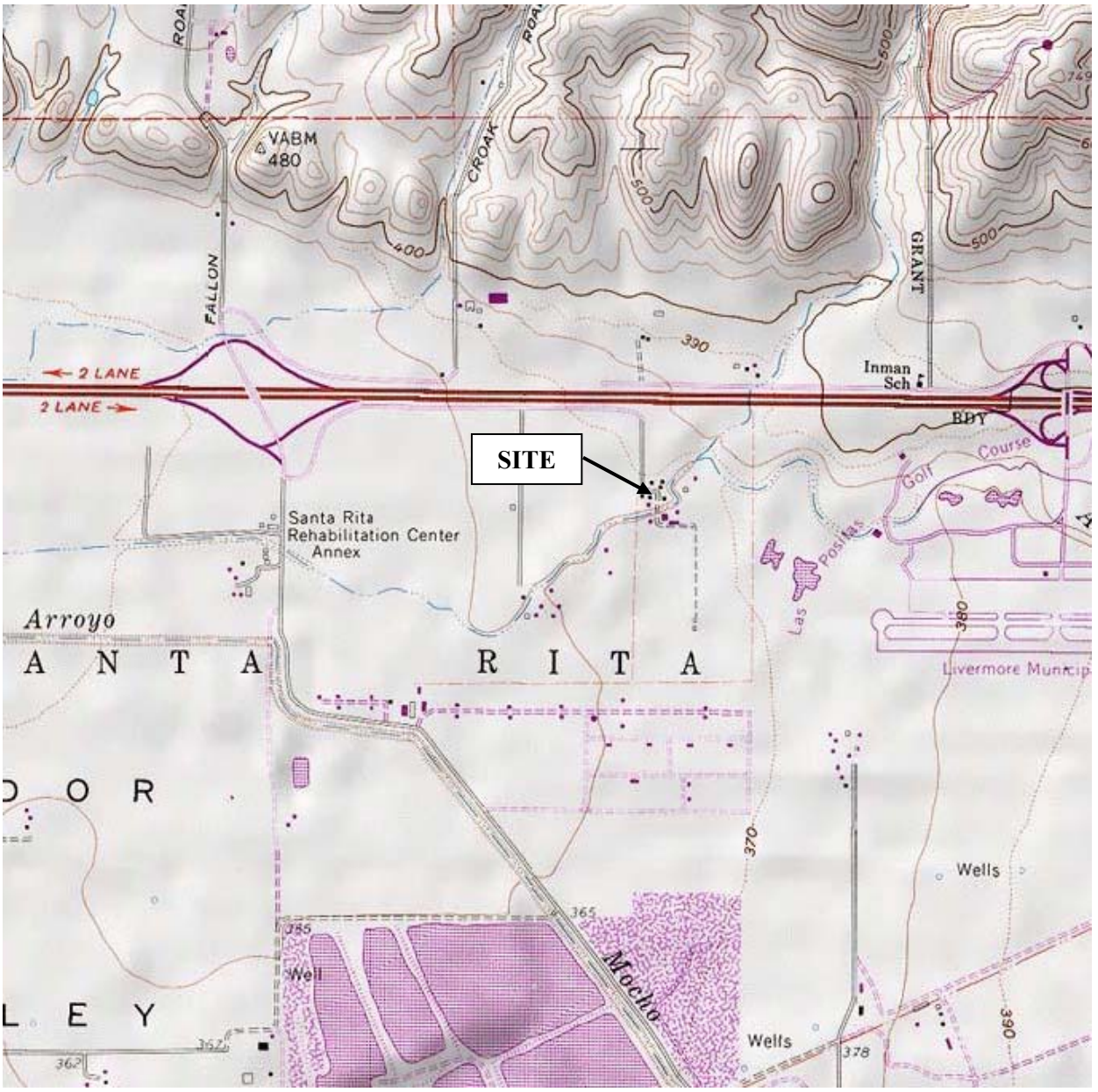
FIGURES



0 .5 1 MILE

0 1000 FEET 0 500 1000 METERS

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N
W E
S

SOURCE: UNITED STATES GEOLOGICAL SURVEY *LIVERMORE QUADRANGLE, CALIFORNIA 7.5 MINUTE SERIES (TOPOGRAPHIC)* MAP. OBTAINED FROM THE 2000 NATIONAL GEOGRAPHIC TOPO SOFTWARE..

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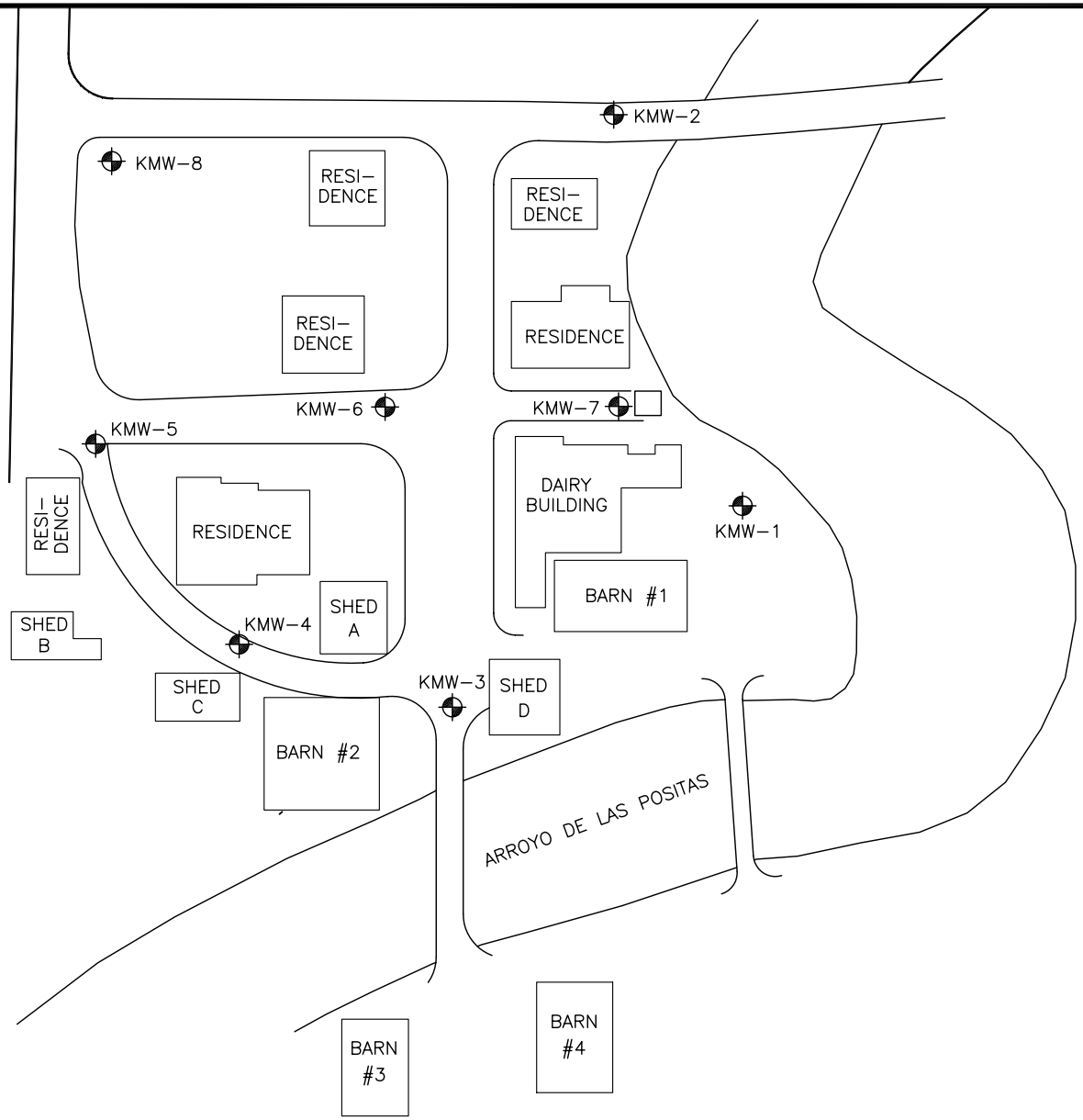
PROJECT NO: 01203087.02		
DESIGNED BY: TMS	SCALE: SHOWN	REVIEWED BY: SJC
DRAWN BY: TMS	DATE: 1-07	

FIGURE 1

SITE LOCATION MAP

FREISMAN RANCH PROPERTY
1600 FREISMAN ROAD
LIVERMORE, CALIFORNIA



LEGEND

GROUNDWATER MONITORING WELL

N

APPROXIMATE SCALE IN FEET

80 0 80

BASE:

ATC ASSOCIATES INC. MARCH 28, 2003. QUARTERLY GROUNDWATER MONITORING REPORT, FIRST QUARTER 2003, FRIESMAN RANCH PROPERTY, LIVERMORE, CALIFORNIA

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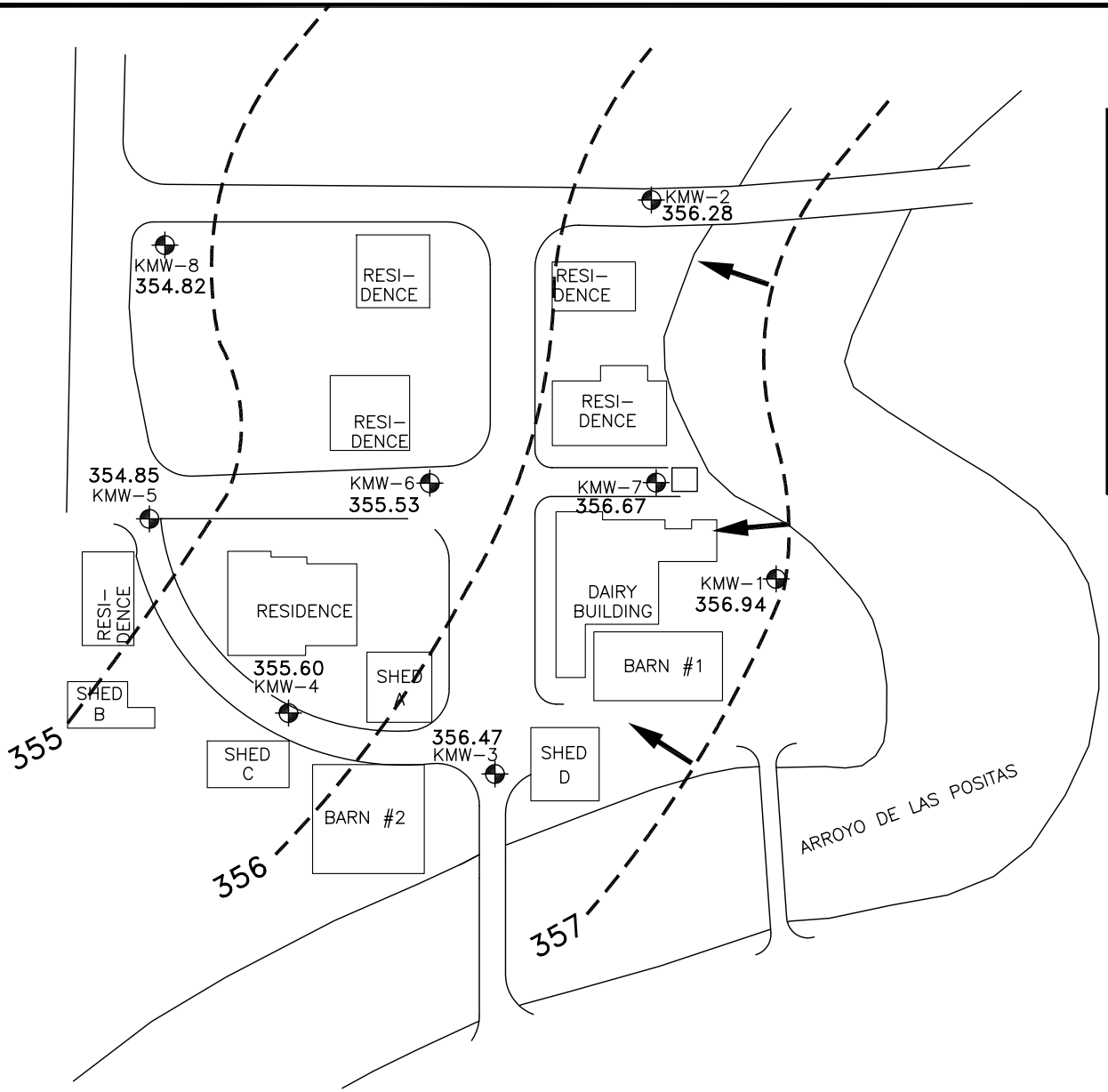
PROJ. NO.	DWN. BY:	ACAD FILE:
01203087.02	TMS	Figure 2.dwg
DATE	CHK. BY:	APP. BY:
1-12-07	SJC	S. Clements

SHEET TITLE: SITE PLAN

PROJECT TITLE:
FREISMAN RANCH PROPERTY
1600 FREISMAN ROAD
LIVERMORE, CALIFORNIA

SCALE: AS SHOWN

FIGURE: 2



LEGEND

- GROUNDWATER MONITORING WELL
- 356.94 — GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- 357 — GROUNDWATER ELEVATION CONTOUR LINE (FT MSL)
- 0.01 — GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)

NOTES:

GROUNDWATER WAS MEASURED ON 1/8/2007.

N

80 0 80

APPROXIMATE SCALE IN FEET

BASE:

ATC ASSOCIATES INC. MARCH 28, 2003. QUARTERLY GROUNDWATER MONITORING REPORT, FIRST QUARTER 2003, FRIESMAN RANCH PROPERTY, LIVERMORE, CALIFORNIA

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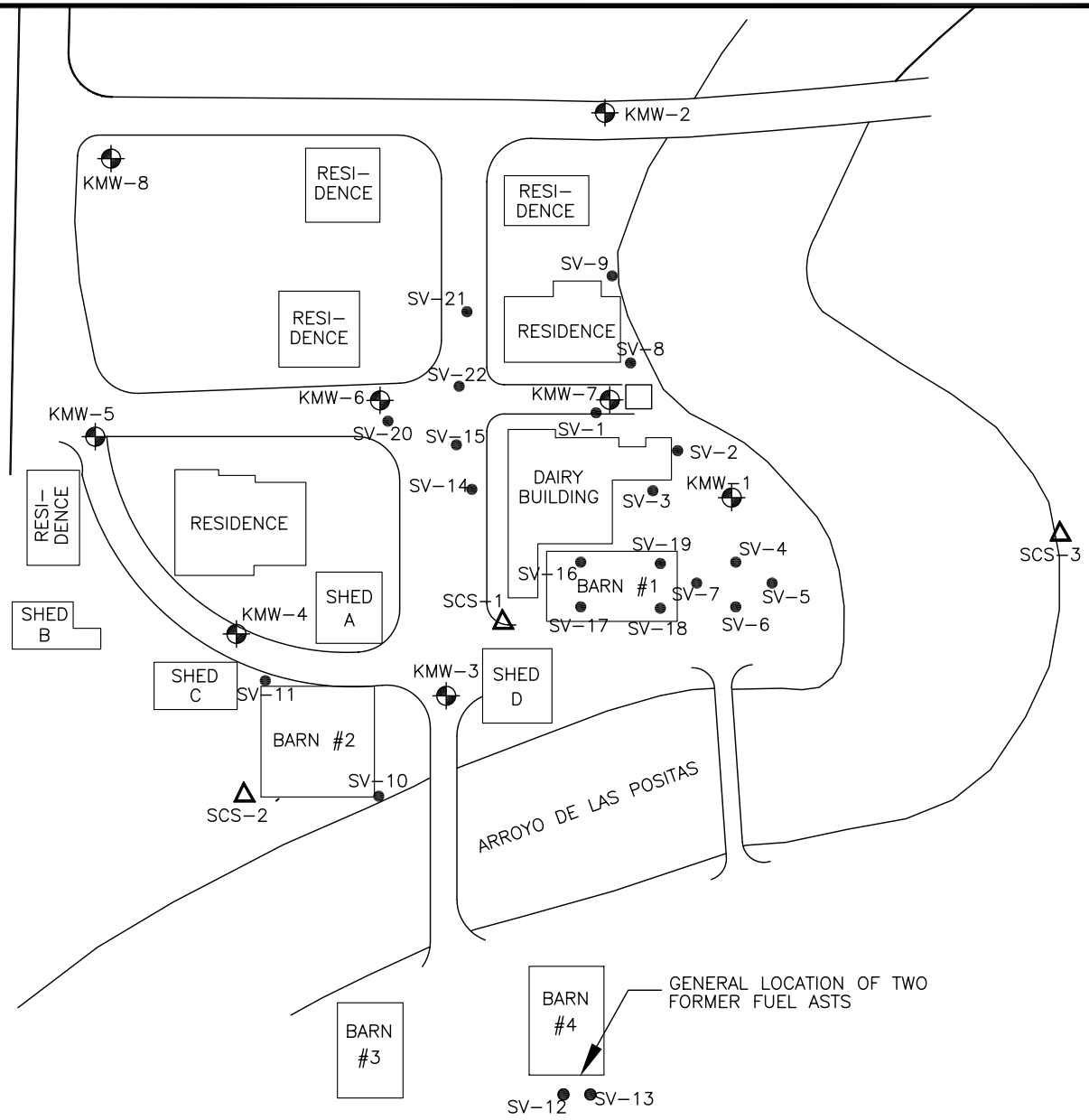
PROJ. NO.	DWN. BY:	ACAD FILE:
01203087.02	TMS	Figure 3.dwg
DATE	CHK. BY:	APP. BY:
1/12/07	TMS	S. Clements

SHEET TITLE: GROUNDWATER ELEVATION CONTOURS (1/8/07)

PROJECT TITLE: FREISMAN RANCH PROPERTY
1600 FREISMAN ROAD
LIVERMORE, CALIFORNIA

SCALE: AS SHOWN

FIGURE: 3



LEGEND

- EXISTING GROUNDWATER MONITORING WELL
- SOIL VAPOR SAMPLING LOCATION
- SOIL BORING/ TEMPORARY GROUNDWATER SAMPLING LOCATION

N

80 0 80

APPROXIMATE SCALE IN FEET

NOTES:

INVESTIGATION CONDUCTED ON JANUARY 9-11, 2007.

BASE:

ATC ASSOCIATES INC. MARCH 28, 2003. QUARTERLY GROUNDWATER MONITORING REPORT, FIRST QUARTER 2003, FRIESMAN RANCH PROPERTY, LIVERMORE, CALIFORNIA

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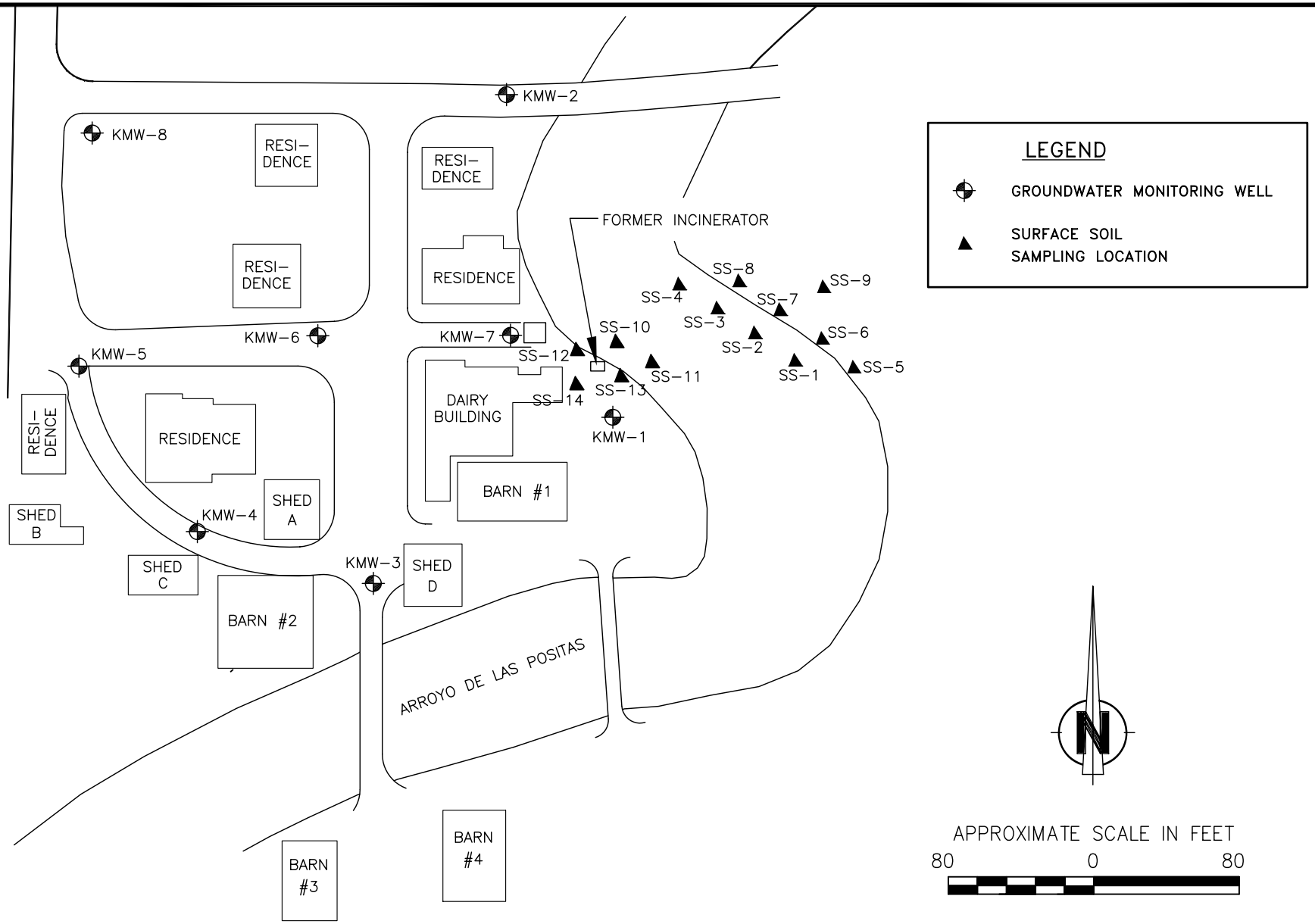
PROJ. NO.	DWN. BY:	ACAD FILE:
01203087.02	TMS	Figure 4.dwg
DATE	CHK. BY:	APP. BY:
1/12/07	SJC	S. Clements

SHEET TITLE: SOIL VAPOR, SOIL, AND GROUNDWATER SAMPLE LOCATIONS

PROJECT TITLE:
FREISMAN RANCH PROPERTY
1600 FREISMAN ROAD
LIVERMORE, CALIFORNIA

SCALE: AS SHOWN

FIGURE: 4



BASE:
ATC ASSOCIATES INC. MARCH 28, 2003. QUARTERLY GROUNDWATER MONITORING REPORT, FIRST QUARTER 2003, FRIESMAN RANCH PROPERTY, LIVERMORE, CALIFORNIA

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PROJ. NO.	DWN. BY:	ACAD FILE:
01203087.02	TMS	Figure 5.dwg
DATE	CHK. BY:	APP. BY:
1/12/07	SJC	S. Clements

SHEET TITLE:
SURFACE SOIL SAMPLE LOCATIONS (FORMER INCINERATOR AREA)

PROJECT TITLE:
FREISMAN RANCH PROPERTY
1600 FREISMAN ROAD
LIVERMORE, CALIFORNIA

SCALE:
AS SHOWN

FIGURE:
5

TABLES

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA
FREISMAN RANCH PROPERTY
LIVERMORE, CALIFORNIA

WELL NUMBER	SAMPLING DATE	WATER LEVEL FROM T.O.C.	T.O.C. ELEVATION USGS Datum	GROUNDWATER ELEVATIONS USGS Datum
		(feet)	(Ft. above MSL)	(Ft. above MSL)
KMW-1	9/8/1997	12.82	370.12	357.30
	12/28/1998	12.72		357.40
	1/12/1999	12.97		357.15
	3/25/1999	11.99		358.13
	6/21/1999	NM		NC
	9/16/1999	NM		NC
	10/16/2002	14.27		355.85
	1/17/2003	11.67		358.45
	4/15/2003	11.08		359.04
	7/21/2003	13.23		356.89
	10/30/2003	13.85		356.27
	1/12/2006	11.47		358.65
	1/21/2006	11.67		358.45
	1/9/2007	13.18		356.94
KMW-2	9/8/1997	14.28	370.72	356.44
	12/28/1998	14.08		356.64
	1/12/1999	14.32		356.40
	3/25/1999	13.19		357.53
	6/21/1999	NM		NC
	9/16/1999	NM		NC
	10/16/2002	*		*
	1/17/2003	12.77		357.95
	4/15/2003	12.73		357.99
	7/21/2003	13.64		357.08
	10/30/2003	Dry		Dry
	1/12/2006	12.72		358.00
	1/21/2006	12.80		357.92
	1/9/2007	14.44		356.28
KMW-3	9/8/1997	12.34	369.10	356.76
	12/28/1998	12.39		356.71
	1/12/1999	15.13		353.97
	3/25/1999	11.59		357.51
	6/21/1999	NM		NC
	9/16/1999	NM		NC
	10/16/2002	13.69		355.41
	1/17/2003	10.85		345.20
	4/15/2003	10.16		358.94
	7/21/2003	12.59		356.51
	10/30/2003	13.19		355.91
	1/12/2006	10.44		358.66
	1/9/2007	12.63		356.47

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA
FREISMAN RANCH PROPERTY
LIVERMORE, CALIFORNIA

WELL NUMBER	SAMPLING DATE	WATER LEVEL FROM T.O.C.	T.O.C. ELEVATION USGS Datum	GROUNDWATER ELEVATIONS USGS Datum
		(feet)	(Ft. above MSL)	(Ft. above MSL)
KMW-4	9/8/1997	13.76	369.80	356.04
	12/28/1998	13.76		356.04
	1/12/1999	14.40		355.40
	3/25/1999	12.89		356.91
	6/21/1999	NM		NC
	9/16/1999	NM		NC
	10/16/2002	15.92		353.88
	1/17/2003	12.17		357.63
	4/15/2003	11.90		357.90
	7/21/2003	14.55		355.25
	10/30/2003	15.40		354.40
	1/12/2006	11.80		358.00
	1/9/2007	14.20		355.60
KMW-5	9/8/1997	14.24	369.52	355.28
	12/28/1998	14.17		355.35
	1/12/1999	15.32		354.20
	3/25/1999	13.27		356.25
	6/21/1999	NM		NC
	9/16/1999	NM		NC
	10/16/2002	16.45		353.07
	1/17/2003	12.60		356.92
	4/15/2003	12.76		356.76
	7/21/2003	15.08		354.44
	10/30/2003	16.02		353.50
	1/12/2006	12.30		357.22
	1/9/2007	14.67		354.85
KMW-6	9/8/1997	14.28	370.08	355.80
	12/28/1998	14.16		355.92
	1/12/1999	14.47		355.61
	3/25/1999	13.22		356.86
	6/21/1999	14.56		355.52
	9/16/1999	14.29		355.79
	10/16/2002	16.27		353.81
	1/17/2003	12.54		357.54
	4/15/2003	12.56		357.52
	7/21/2003	14.82		355.26
	10/30/2003	15.85		354.23
	1/12/2006	12.41		357.67
	1/21/2006	12.90		357.18
	1/9/2007	14.55		355.53

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA
FREISMAN RANCH PROPERTY
LIVERMORE, CALIFORNIA

WELL NUMBER	SAMPLING DATE	WATER LEVEL FROM T.O.C.	T.O.C. ELEVATION USGS Datum	GROUNDWATER ELEVATIONS USGS Datum
		(feet)	(Ft. above MSL)	(Ft. above MSL)
KMW-7	12/28/1998	12.91	370.04	357.13
	1/12/1999	13.15		356.89
	3/25/1999	12.12		357.92
	6/21/1999	12.86		357.18
	9/16/1999	13.00		357.04
	10/16/2002	14.63		355.41
	1/17/2003	11.77		358.27
	4/15/2003	11.31		358.73
	7/21/2003	13.59		356.45
	10/30/2003	14.19		355.85
	1/12/2006	11.58		358.46
	1/21/2006	11.75		358.29
	1/9/2007	13.37		356.67
KMW-8	12/28/1998	13.37	368.61	355.24
	1/12/1999	13.70		354.91
	3/25/1999	12.48		356.13
	6/21/1999	13.30		355.31
	9/16/1999	13.57		355.04
	10/16/2002	15.85		352.76
	1/17/2003	11.87		356.74
	4/15/2003	12.25		356.36
	7/21/2003	14.31		354.30
	10/30/2003	15.23		353.38
	1/12/2006	11.55		357.06
	1/21/2006	11.85		356.76
	1/9/2007	13.79		354.82

Notes:

MSL = Mean Sea Level

NC = Not Calculable

T.O.C. = Top of casing. All measurements in feet relative to top of casing.

USGS = United States Geological Survey

All wells have 4" ID casing

Wells KMW-7 and KMW-8 installed on December 23, 1998

* Well obstructed, no water level measurement taken

TABLE 2
SUMMARY OF GROUNDWATER FIELD PARAMETERS
SAMPLES COLLECTED JANUARY 9, 2007
FREISMAN RANCH PROPERTY
LIVERMORE, CALIFORNIA

	Well								
Analyte	KMW-1	KMW-2	KMW-3	KMW-4	KMW-5	KMW-6	KMW-7	KMW-8	3S/ 1E 2P3
	Field Measurements								
pH	7.19	7.34	7.36	7.36	7.33	7.04	7.15	6.93	7.46
EC (mS/cm)	1.6	1.5	1.6	1.6	1.6	2.0	1.6	1.8	0.9
Temperature (°C)	16.7	16	16.4	17.8	17.9	18.6	16	15	17.5
Turbidity (NTUs)	29	32	20	11	20	48	37	120	4
DO (mg/L)	0.4	0.3	0.4	0.5	1.3	0.3	0.5	0.6	NM

Notes:

EC = Electrical Conductivity

mS/ cm = millisiemens per centimeter

DO = Dissolved Oxygen (measured before purging wells (1/8/07) using down hole sensor).

NTU = Nephelometric Turbidity Units

NM = Not Measured

mg/L = milligrams per liter

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FREISMAN RANCH PROPERTY
LIVERMORE, CALIFORNIA

WELL	SAMPLE DATE	TPH-D (µg/L)	TPH-G (µg/L)	TPH-SS (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	n-butyl Benzene (µg/L)	Isopropyl Benzene (µg/L)	1,2-DCA (µg/L)	Naphthalene (µg/L)	n-Propyl Benzene (µg/L)	1,2,4-Trimethyl Benzene (µg/L)	LEAD (µg/L)
KMW-1	9/8/1997	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	12/28/1998	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	**7.8**
	12/28/1998 dup	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	**5.9**
	3/25/1999	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	6/21/1999	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	9/16/1999	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	10/16/2002	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	1/17/2003	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	4/15/2003	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	7/21/2003	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	10/30/2003	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	1/12/2006 h2o	<50	<50	NA	<0.5	<0.5	<0.5	<1.0	<0.5	NA	NA	NA	NA	NA	NA	NA
	1/21/2006 cs	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	0.99
	1/9/2007	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
KMW-2	9/8/1997	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	12/28/1998	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	<5.0
	3/25/1999	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	6/21/1999	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	9/16/1999	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	10/16/2002	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	1/17/2003	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	4/15/2003	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	7/21/2003	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	10/30/2003	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	1/12/2006 h2o	55	65	NA	<0.5	1.2	<0.5	<1.0	1.6	NA	NA	NA	NA	NA	NA	NA
	1/21/2006 cs	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	**5**
	1/9/2007	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
KMW-3	9/8/1997	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	12/28/1998	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	<5.0
	3/25/1999	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	6/21/1999	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	9/16/1999	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	10/16/2002	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	1/17/2003	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	4/15/2003	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	7/21/2003	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	10/30/2003	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	1/12/2006 h2o	<50	<50	NA	<0.5	<0.5	<0.5	<1.0	<0.5	NA	NA	NA	NA	NA	NA	NA
	1/9/2007	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FREISMAN RANCH PROPERTY
LIVERMORE, CALIFORNIA

WELL	SAMPLE DATE	TPH-D (µg/L)	TPH-G (µg/L)	TPH-SS (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	n-butyl Benzene (µg/L)	Isopropyl Benzene (µg/L)	1,2-DCA (µg/L)	Naphthalene (µg/L)	n-Propyl Benzene (µg/L)	1,2,4-Trimethyl Benzene (µg/L)	LEAD (µg/L)
KMW-4	9/8/1997	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	12/28/1998	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	**7.5**
	3/25/1999	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	6/21/1999	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	9/16/1999	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	10/16/2002	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	1/17/2003	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	4/15/2003	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	7/21/2003	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	10/30/2003	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	1/12/2006 h2o	<50	<50	NA	<0.5	<0.5	<0.5	<1.0	<0.5	NA	NA	NA	NA	NA	NA	NA
	1/9/2007	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
KMW-5	9/8/1997	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	9/8/1997 dup	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	12/28/1998	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	**8.5**
	3/25/1999	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	6/21/1999	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	9/16/1999	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	10/16/2002	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	1/17/2003	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	4/15/2003	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	7/21/2003	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	10/30/2003	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NS
	1/12/2006 h2o	<50	89	NA	<0.5	<0.5	**2**	<1.0	<0.5	NA	NA	NA	NA	NA	NA	NA
	1/9/2007	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
KMW-6	9/8/1997	**3,200, d**	**13,000, a**	NA	**250**	14	**560**	**490**	<150	NA	NA	NA	**140**	NA	NA	NA
	12/28/1998	**1,800, d**	**3,200, a**	NA	**86**	3.6	**140**	**90**	<50	NA	NA	NA	**130**	NA	NA	**15**
	3/26/1999	**1,700, d,b**	**7,000, a**	NA	**160**	5.1	**270**	**200**	<100	NA	NA	NA	**100**	NA	NA	<5.0
	3/26/1999 dup	**1,700, d,b**	**6,700, a**	NA	**170**	6.5	**270**	**200**	<100	NA	NA	NA	**100**	NA	NA	NA
	6/21/1999	**1,500, d,b**	**3,800, a**	NA	**170**	<0.5	**260**	**160**	<10	NA	NA	NA	**200**	NA	NA	<5.0
	9/16/1999	**1,900, d**	**7,100, a**	NA	**230**	9.8	**300**	**210**	<120	NA	NA	NA	NA	NA	NA	<5.0
	10/16/2002	**1,600, d**	**4,600, a**	NA	**100**	8.4	**190**	**110**	<50	NA	NA	NA	NA	NA	NA	NA
	10/16/2002 dup	**1,900, d**	**5,100, a**	NA	**110**	10	**210**	**110**	<50	NA	NA	NA	NA	NA	NA	NA
	1/17/2003	**2,100, d**	**5,700, a**	NA	**87**	4.3	**170**	**100**	<25	NA	NA	NA	NA	NA	NA	NA
	1/17/2003 dup	**1,900, d**	**5,800, a**	NA	**89**	6.4	**180**	**100**	<25	NA	NA	NA	NA	NA	NA	NA
	4/15/2003	**110, d**	**390, a**	NA	**7.4**	0.58	8.5	6.1	<5.0	NA	NA	NA	NA	NA	NA	NA
	4/15/2003 dup	**100, d**	**270, a**	NA	**4.2**	0.51	5.6	3.0	<5.0	NA	NA	NA	NA	NA	NA	NA
	7/21/2003	**1,600, d**	**4,300, a**	NA	**89**	3.0	**130**	**70**	<17	NA	NA	NA	NA	NA	NA	NA
	7/21/2003 dup	**1,500, d**	**4,600, a**	NA	**83**	5.2	**130**	**72**	<25	NA	NA	NA	NA	NA	NA	NA
	10/30/2003	**310, d**	**700, a**	NA	**23**	1.1	8.0	8.3	<5.0	NA	NA	NA	NA	NA	NA	NA
	10/30/2003 dup	**350, d**	**750, a**	NA	**24**	1.3	8.5	8.8	<5.0	NA	NA	NA	NA	NA	NA	NA
	1/12/2006 h2o	**630**	**2,200**	NA	**21**	33	<2.0	18	<2.0	NA	NA	NA	NA	NA	NA	NA
	1/21/2006 cs	**1500, d**	**4000, a**	NA	**38**	<5.0	**77**	**43**	<50	NA	NA	NA	**77**	NA	NA	2.0
	1/9/2007	53, d	**180, a**	70	**3.1**	<0.5	1.9	0.65	<0.5	0.6	1.1	**0.72**	3.2	1.8	1.8	<0.5

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FREISMAN RANCH PROPERTY
LIVERMORE, CALIFORNIA

WELL	SAMPLE DATE	TPH-D (µg/L)	TPH-G (µg/L)	TPH-SS (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	n-butyl Benzene (µg/L)	Isopropyl Benzene (µg/L)	1,2-DCA (µg/L)	Naphthalene (µg/L)	n-Propyl Benzene (µg/L)	1,2,4-Trimethyl Benzene (µg/L)	LEAD (µg/L)
KMW-7	12/28/1998	**1,000, d,h**	**9,100, a,h**	NA	**23**	17	**190**	**700**	<70	NA	NA	NA	**110**	NA	NA	**38**
	3/25/1999	**1,200 d,b**	**4,300, a,h**	NA	**19**	16	**56**	**270**	<70	NA	NA	NA	**23**	NA	NA	**22**
	6/21/1999	**1,300, d,b**	**1,300, a**	NA	**6.5**	<0.5	21	**62**	<5.0	NA	NA	NA	**27**	NA	NA	<5.0
	6/21/1999 dup	**1,200, d**	**2,000, a**	NA	**6.4**	6.7	24	**76**	<5.0	NA	NA	NA	**17**	NA	NA	NA
	9/16/1999	**1,100, d**	**950, a**	NA	**3.3**	2	19	**33**	<10	NA	NA	NA	NA	NA	NA	<10
	10/16/2002	**480, d**	**270, a**	NA	**1.3**	<0.5	4	15	<5.0	NA	NA	NA	NA	NA	NA	NA
	1/17/2003	**610, d**	**1,100, a**	NA	**7.8**	1.3	24	**84**	<10	NA	NA	NA	NA	NA	NA	NA
	4/15/2003	**350, d**	**880, a**	NA	**7.1**	0.69	4.4	**52**	<5.0	NA	NA	NA	NA	NA	NA	NA
	7/21/2003	**830, n**	**1,500, e/g, a**	NA	**2.8**	<0.5	8.3	**28**	<5.0	NA	NA	NA	NA	NA	NA	NA
	10/30/2003	**100, d**	**150, a**	NA	0.54	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	1/12/2006 h2o	61	**230**	NA	0.51	<0.5	<0.5	2.8	<5.0	NA	NA	NA	NA	NA	NA	NA
	1/21/2006 cs	**320#**	**530**	NA	**2.5**	<0.5	8.1	**26**	<0.5	NA	NA	NA	6.1	NA	NA	**2.9**
	1/9/2007	84, d	**330, a**	**110**	<0.5	<0.5	0.57	3.2	<0.5	<0.5	<0.5	<0.5	0.72	<0.5	1.3	<0.5
KMW-8	12/28/1998	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	**12**
	3/25/1999	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	6/21/1999	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA
	9/16/2002	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA
	10/16/2002	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	1/17/2003	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	4/15/2003	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	7/21/2003	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	10/30/2003	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
	1/12/2006 h2o	52	58	NA	<0.5	<0.5	0.71	<1.0	<0.5	NA	NA	NA	NA	NA	NA	NA
	1/21/2006 cs	<50	<50	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	**6.1**
	1/9/2007	<50	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TAP Sample	4/15/2003	NA	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA
1S/1E/2P3 (well)	1/9/2007	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ESL		100	100	100	1.0	40	30	20	5	NE	NE	0.5	17	NE	NE	2.5

Notes:

TPH-D	Total Petroleum Hydrocarbons as Diesel	d	Gasoline range compounds are significant
TPH-G	Total Petroleum Hydrocarbons as Gasoline	e	TPH pattern that does not appear to be derived from gasoline
TPH-SS	Total Petroleum Hydrocarbons as Stoddard Solvent	#	Kerosene and jet fuel range compounds
MTBE	Methyl Tertiary-Butyl Ether		(possibly stoddard solvent/mineral spirit)
µg/L	Micrograms per Liter (approx. equal to parts per billion)	g	strongly aged gasoline or diesel range compounds are significant
<0.5	Not detected at or above the laboratory method reporting limit	h	Lighter than water immiscible sheen is present
a	Unmodified or weakly modified gasoline is significant	n	stoddard solvent/mineral spirit
b	Diesel range compounds are significant; no recognizable pattern	NA	Not analyzed
	TAP Sample was collected from the water supply well on-site.	NS	Not Sampled
h2o	Sampling conducted by H2OGEOL	cs	Sampling conducted by Consolidated Engineering
ND	Not Detected	NE	Not Established
1,2-DCA	1,2-Dichloroethane		

ESL = Environmental Screening Level for groundwater that is a current or potential source of drinking water - San Francisco Bay Regional Water Quality Control Board, Interim Final - February 2005.

Consolidated Engineering also analyzed groundwater samples for semivolatile organic compounds by EPA Method 8270D. See their report for details.

TABLE 4
SUMMARY OF SOIL VAPOR SURVEY ANALYTICAL
FREISMAN RANCH PROPERTY
LIVERMORE, CALIFORNIA

Sample	Analyte		
	Benzene	Toluene	Xylenes (total)
	VOCs by EPA Method 8260B		
	ug/L		
SV-1	<0.08	<0.2	<0.2
SV-2	<0.08	<0.2	<0.2
SV-3	<0.08	0.52	0.58
SV-4	<0.08	<0.2	<0.2
SV-5	<0.08	0.2	0.25
SV-6	<0.08	<0.2	0.24
SV-7	<0.08	<0.2	<0.2
SV-8	<0.08	<0.2	0.21
SV-9	<0.08	0.25	0.28
SV-10	<0.08	<0.2	0.25
SV-11	<0.08	0.23	0.27
SV-12	<0.08	0.22	0.22
SV-13	<0.08	<0.2	0.21
SV-14	<0.08	<0.2	<0.2
SV-15	<0.08	<0.2	<0.2
SV-16	<0.08	<0.2	<0.2
SV-17	<0.08	<0.2	<0.2
SV-18	<0.08	<0.2	<0.2
SV-19	<0.08	<0.2	<0.2
SV-20	<0.08	<0.2	<0.2
SV-21	<0.08	<0.2	<0.2
SV-22	<0.08	<0.2	<0.2
ESL	0.085	63	150

Notes:

soil vapor survey conducted on January 10 and 11, 2007

ug/L = micrograms per liter of vapor

VOCs = Volatile Organic Compounds. EPA Method 8260B analytes not listed were not detected (see analytical report)

ESL = Environmental Screening Level for shallow soil vapor in residential areas. San Francisco Bay Regional Water Quality Control Board, Interim Final - February 2005.

TABLE 5
SUMMARY OF SOIL BORING ANALYTICAL RESULTS (SOIL SAMPLES)
FREISMAN RANCH PROPERTY
LIVERMORE, CALIFORNIA

Sample Number	Sample Depth (feet)	Benzene	VOCs	TPH-d	TPH-g	TPH-ss
		EPA Method 8260B		Method SW8015Cm		
		mg/kg				
SCS-1	2.5	<0.005	ND	<50	<50	<50
	5	<0.005	ND	<50	<50	<50
	15	<0.005	ND	<50	<50	<50
SCS-2	6.5	<0.005	ND	<50	<50	<50
	10.5	<0.005	ND	<50	<50	<50
	15	<0.005	ND	<50	<50	<50
SCS-3	2.5	<0.005	ND	<50	<50	<50
	6.5	<0.005	ND	<50	<50	<50
	10	<0.005	ND	<50	<50	<50
	15	<0.005	ND	<50	<50	<50

Notes:

All soil samples collected on January 11, 2007

VOCs = Volatile Organic Compounds. EPA Method 8260B analytes not listed were not detected (see analytical report)

TPH-d = Total Petroleum Hydrocarbons as diesel (Analyzed with Silica Gel Clean-up)

TPH-g = Total Petroleum Hydrocarbons as gasoline

TPH-ss = Total Petroleum Hydrocarbons as stoddard solvent

mg/kg = milligrams per kilogram (or parts per million (ppm))

TABLE 6
SUMMARY OF TEMPORARY WELL ANALYTICAL RESULTS (GROUNDWATER SAMPLES)
FREISMAN RANCH PROPERTY
LIVERMORE, CALIFORNIA

Sample Number	Well Depth (feet)	Benzene	Bromo-methane	Remaining VOCs	TPH-d	TPH-g	TPH-ss	Dissolved Lead
		EPA Method 8260B			Method 8015C			Method E200.8
		ug/L						
SCS-1 GW	28	<0.5	1.1	ND	<50	<50	<50	<0.5
SCS-2 GW	16	<0.5	<0.5	ND	<50	<50	<50	<0.5
SCS-3 GW	18	<0.5	<0.5	ND	<50	<50	<50	<0.5

Notes:

All groundwater samples collected on January 11, 2007

VOCs = Volatile Organic Compounds. (See analytical report for detection limits)

TPH-d = Total Petroleum Hydrocarbons as diesel (Analyzed with Silica Gel Clean-up)

TPH-g = Total Petroleum Hydrocarbons as gasoline

TPH-ss = Total Petroleum Hydrocarbons as stoddard solvent

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

ND = Analytes not detected above specified reporting limits (see laboratory report)

TABLE 7
SUMMARY OF SURFACE SOIL SAMPLE ANALYTICAL RESULTS (INCINERATOR AREA)
FREISMAN RANCH PROPERTY
LIVERMORE, CALIFORNIA

Sample Number	Sample Date	Arsenic	Cadmium	Chromium	Lead	Mercury	Nickel	Zinc
		EPA Method 6020A						
		mg/kg						
SS-1	1/9/2007	2.6	<0.25	41	7.6	<0.05	41	53
SS-2	1/9/2007	2.6	<0.25	26	7.5	0.053	30	51
SS-3	1/9/2007	2.5	<0.25	29	7.7	<0.05	30	58
SS-4	1/9/2007	2.5	<0.25	26	9.2	0.074	30	51
SS-5	1/9/2007	2.7	<0.25	25	7	<0.05	28	37
SS-6	1/9/2007	3.4	<0.25	32	7.3	<0.05	33	44
SS-7	1/9/2007	3	<0.25	35	12	0.053	35	51
SS-8	1/9/2007	3.1	<0.25	31	14	0.054	32	48
SS-9	1/9/2007	3.6	<0.25	34	8.2	0.082	35	48
SS-10	1/10/2007	2.5	<0.25	28	8.2	<0.05	30	54
SS-11	1/10/2007	**9.6**	0.3	51	49.7	<0.05	62	120
SS-12	1/10/2007	4.6	0.38	63	65	0.062	57	190
SS-13	1/10/2007	**5.7**	<0.25	59	15	0.06	86	83
SS-14	1/10/2007	**10**	0.73	79	**760**	0.072	41	510
Residential ESL		5.5	1.7	750	150	3.7	150	600
Commercial ESL		5.5	7.4	750	750	10	150	600

Notes:

mg/kg = milligrams per kilogram

The chromium ESL listed is for trivalent chromium

ESL = Environmental Screening Level for shallow soil where groundwater is a current or potential source of drinking water San Francisco Bay Regional Water Quality Control Board, Interim Final - February 2005.

APPENDIX A

H_2OGEOL REPORT, DATED FEBRUARY 6, 2006

H2OGEOL

A GROUND WATER CONSULTANCY

Mr. Dave Nielsen
Building Project Manager
CrossWinds Church
6444 Sierra Court
Dublin, California 94568

February 06, 2006

RE: January 2006 Groundwater Monitoring Report and Summary of Possible Remedial Activities - Former Friesman Ranch Property, 1600 Friesman Road, Livermore, CA.

Dear Mr. Nielsen;

This January 2006 Groundwater Monitoring Report, though not the official First Quarter, 2006 report, was prepared by H_2OGEOL under our verbal agreement of January 10, 2006 to sample the eight monitoring wells at the Former Friesman Ranch Property located at 1600 Friesman Road in Livermore and provide a summary report of the analytical results with recommendations for further remedial action or site closure. The site location is shown on Figure 1. The eight monitoring wells were sampled on January 12, 2006.

1.0 POTENTIOMETRIC SURFACE

The depth to water and total well depth of seven of the monitoring wells were measured on January 12, 2006 between 09:11 and 09:33 hours. Monitoring wells MW-2 and MW-5 were found to have total depths similar to that reported by SCS Engineers on October 30, 2003. The shallow depths of MW-2 and MW-5 were found to be caused by dense invasive root mats that were removed later in the day. Monitoring well MW-8 was not visible on the ground as you observed on January 10, 2006. MW-8 well was located and unburied by the afternoon and the depth to water was measured at 15:15. These findings are summarized in the notes on Table 1.

Depths to water were measured to +/- 0.01 feet using a Solinst Model water level meter. The depths to water were converted to potentiometric surface elevation by subtracting the measured depths to water from the casing top elevations listed in the aforementioned SCS Engineers report dated December 17, 2003. The depth to water, casing top elevations, and potentiometric surface elevations are presented in Table 1.

Table 2 lists the slope (gradient) and direction of gradient of the potentiometric surface for the triangles with a well at each apex for these water level measurements.

Figure 2 is a map showing the approximate potentiometric surface for the monitoring wells on January 12, 2006. The configuration of the potentiometric surface was similar to that shown in the SCS Engineers report. The previous water level measurements listed in that report were not evaluated as a part of this investigation. Arroyo de las Positas has persistently been shown as an influent stream.

2.0 MONITORING WELL PURGING AND SAMPLING

Monitoring well purging and sampling occurred on January 12, 2006. The monitoring wells were purged with a 12-volt battery operated submersible pump and sampled with a discharge rate of less than 1 L/minute. Field measured water quality parameters were measured using a Cambridge Scientific Industries Hydac™ Conductivity Temperature pH Tester, and dissolved oxygen (DO) using a Hanna Instruments HI9142 DO meter with the DO probe in a flow through cell. The appropriate information was logged onto the field sampling forms. Well purging activities and the field measured water quality parameters are documented on the forms included in Attachment A.

Groundwater samples from each well were collected into four 40-mL glass vials with Teflon™ septum lids and into a one liter amber glass jar. Following sample collection, each sample bottle was labeled with the sample designation, date and time, and the initials of the sampler. The sample bottles were then placed into an ice chest maintained at the temperature available from its also containing a bed of crushed ice, and its melt water, placed there at the start of the sampling day. The ice was not allowed to completely melt before it was replaced.

The sample number, date, and time were entered onto a chain-of-custody form that included the request for analysis of Total Extractable Petroleum Hydrocarbons in the diesel range (TEPH-d) by U.S. E.P.A. Method 8015M and for Total Petroleum Hydrocarbons in the gasoline range (TPH-g); the volatile aromatic hydrocarbon compounds (benzene, toluene, ethylbenzene, and total xylene isomers); the fuel oxygenates: tertiary-Butyl alcohol (TBA); Methyl tertiary-butyl ether (MtBE); Di-isopropyl Ether (DIPE); Ethyl tertiary-butyl ether (EtBE); and tertiary-Amyl methyl ether (TAME) by U.S. E.P.A. Method 8260B for all wells.

Groundwater samples and the chain-of-custody documentation were then delivered to STL San Francisco (CA DHA ELAP# 2496) of Pleasanton, California on the January 13, 2006. Copies of the monitoring well groundwater sample laboratory reports and the chain-of-custody forms are included in Attachment B.

3.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples were submitted to STL San Francisco for analysis as specified above. Copies of the laboratory report and chain-of-custody documentation are contained in Attachment B. The analytical results are summarized in Table 3. The concentrations of TEPH-diesel, TPH-gasoline, and benzene are also summarized in Figure 3.

TEPH-diesel was reported in groundwater from four of the monitoring wells: presumed source area well MW-7, 61 µg/L; down and cross gradient well MW-6, 630 µg/L; and downgradient wells MW-2, 55 µg/L; and MW-8, 52 µg/L. TEPH-diesel was not detected in the two upgradient wells, MW-1 and MW-3, and in cross gradient well MW-4.

TPH-gasoline was reported in groundwater from five of the monitoring wells: presumed source area well MW-7, 230 µg/L; down and cross gradient well MW-6, 2200 µg/L; and downgradient wells MW-2, 65 µg/L and MW-8, 58 µg/L. and in cross gradient well MW-4, 89 µg/L. TPH-gasoline was not detected in the two upgradient wells, MW-1 and MW-3.

Benzene was reported in groundwater from two of the monitoring wells: presumed source area well MW-7, 0.51 µg/L and in down and cross gradient well MW-6, 21 µg/L

MtBE was reported in groundwater from one of the monitoring wells: downgradient well MW-2 at a concentration of 1.6 µg/L. The lowest reporting limit in earlier analytical results summarized in the SCS Engineers report was 5.0 µg/L.

4.0 HISTORIC ANALYTICAL RESULTS AND CONCLUSIONS

The available earlier analytical results are summarized in a table the SCS Engineers report. With the exception of monitoring wells MW-6 and MW-7, TEPH-diesel, TPH-gasoline, and benzene were reported as below reporting limits from September 1997 through October 2003. The Fourth Quarter 1998 concentrations are summarized herein in Figure 3 along with the current, First Quarter 2006, results. The detection of TEPH-diesel and/or TPH-gasoline in downgradient monitoring wells MW-2, MW-5, and MW-8 suggests that the plume is migrating or diffusing downgradient.

Because of its location alongside the former shed that contained the above ground fuel oil tank and the underground pipeline routes to the former boiler room, monitoring well MW-7 has been referred to as being in the presumed source area. Monitoring well MW-6 is generally downgradient from this presumed source area. The available concentrations of TEPH-diesel, TPH-gasoline, and benzene over time, since installation of MW-7, in this widely spaced data from groundwater samples from MW-6 and MW-7 are summarized in Figure 4. Since December 1998, benzene has been reported at a higher concentration in MW-7 than in downgradient well MW-6 only once (07/21/03). On only two occasions (2 of 10) was TPH-gasoline at a higher concentration in MW-7 than at MW-6; at the time of the first reported sampling of MW-7 and again on July 21, 2003. TEPH-diesel was reported at a higher concentration in groundwater from MW-7 from two of the ten sampling events: on June 21, 1999 and on July 21, 2003. Note that on this latter date, July 21, 2003, when all three mentioned analytes were reported as higher in MW-7 that MW-6, was contemporaneous with the removal of the boilers and fuel lines.

Overall, these three fuel constituents (TEPH-diesel, TPH-gasoline, and benzene) have been reported as being present at higher concentrations in downgradient monitoring well MW-6 than in presumed source area well MW-7. Overall, the three fuel constituents have shown a slow decline in concentration since 1998. The data shown in the graphs in Figure 4 does not indicate that the fuel constituent plume has migrated from a source area near MW-7 toward downgradient

well MW-6 during the preceding eight years. Monitoring well MW-7 appears not to be located in, or immediately downgradient of, a source area.

The downgradient and cross gradient monitoring wells, (counterclockwise on Figures 2 and 3: MW-4, MW-5, MW-8, and MW-2) are reasonably distant from the high concentration well, MW-6 (MW-4, 125 feet; MW-5, 131 feet; MW-8, 165 feet; and MW-2, 166 feet) compared to the distance from MW-6 to MW-7 (106 feet) but would only be expected to find a plum of greater length. Furthermore, these downgradient and cross gradient monitoring wells are very widely spaced: MW-5 is 110 feet from MW-4; MW-8 is 127 feet from MW-5; and MW-2 is 227 feet from MW-8. A narrow plume could readily pass completely undetected in these gaps. There is no conclusive data to support that a stable plume is present. Indeed, over the eight irregular years of monitoring, the fuel constituent plume is evidenced by only two data points, MW-6 and MW-7 and the present data set may be interpreted to suggest an expanding plume. Consequently, the lateral extent of the fuel hydrocarbon plume has not been completed. Furthermore, the vertical extent of the groundwater plume has not been characterized.

The data to date from the eight monitoring wells is insufficient to request case closure. Benzene exceeds the drinking water standard in MW-6.

The location of the source area (the above ground gasoline tank) has yet to be determined.

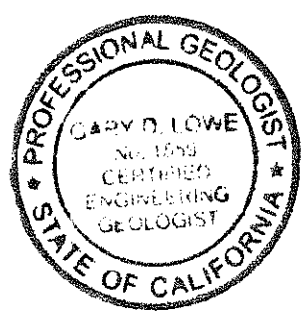
Additional site characterization is necessary to determine hydrocarbon plume dimensions, both laterally and vertically. Shallow wells are needed in the downgradient direction between MW-6 and the existing monitoring wells. Shallow wells are needed in the vicinity of the undiscovered source area. Monitoring wells are needed to investigate deeper groundwater.

Remedial action of the shallow groundwater plume would follow from a completion of the characterization of the shallow plume. As an estimate 300 feet of interceptor trench could be laid out to remove residual soil contamination and collect groundwater for treatment and onsite land disposal.

Please do not hesitate to email h2ogeol@comcast.net or call the undersigned at 925-373-9211 and/or telefax at 925-373-9222 should you have any questions.

Sincerely,

Gary D. Lowe, P.G. (3768), C.E.G. (1559)
C.HG. (127)
Principal, Hydrogeologist
H_2OGEOL A GroundWater Consultancy



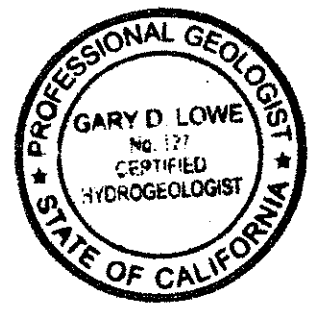


TABLE 1
WATER LEVEL MEASUREMENTS
FIRST QUARTER 2006
FORMER FRIESMAN RANCH PROPERTY
1600 FRIESMAN ROAD
LIVERMORE, CALIFORNIA

WELL	TOTAL WELL DEPTH feet below casing top	TIME	DEPTH TO WATER feet below casing top	CASING ELEVATION feet above mean sea level	GROUNDWATER ELEVATION feet above mean sea level
January 12, 2006					
MW-1	23.90	9:16	11.47	370.12	358.65
MW-2*	24.01	9:11	12.72	370.72	358.00
MW-3	24.05	9:19	10.44	369.10	358.66
MW-4	23.90	9:23	11.80	369.80	358.00
MW-5**	24.05	9:26	12.30	369.52	357.22
MW-6	23.80	9:30	12.41	370.08	357.67
MW-7	23.60	9:33	11.58	370.04	358.46
MW-8***	23.86	15:15	11.55	368.61	357.06

* Well MW-2 was measured with a total depth of 13.84 feet on October 30, 2003 and was measured at 11.29 feet in total depth at 09:12 this date.
An 18-inch root plug was removed from the well and the total depth remeasured.

** Well MW-5 was measured with a total depth of 16.17 feet on October 30, 2003 and was measured at 15.35 feet in total depth at 09:27 this date.
A 10-inch root plug was removed from the well and the total depth remeasured.

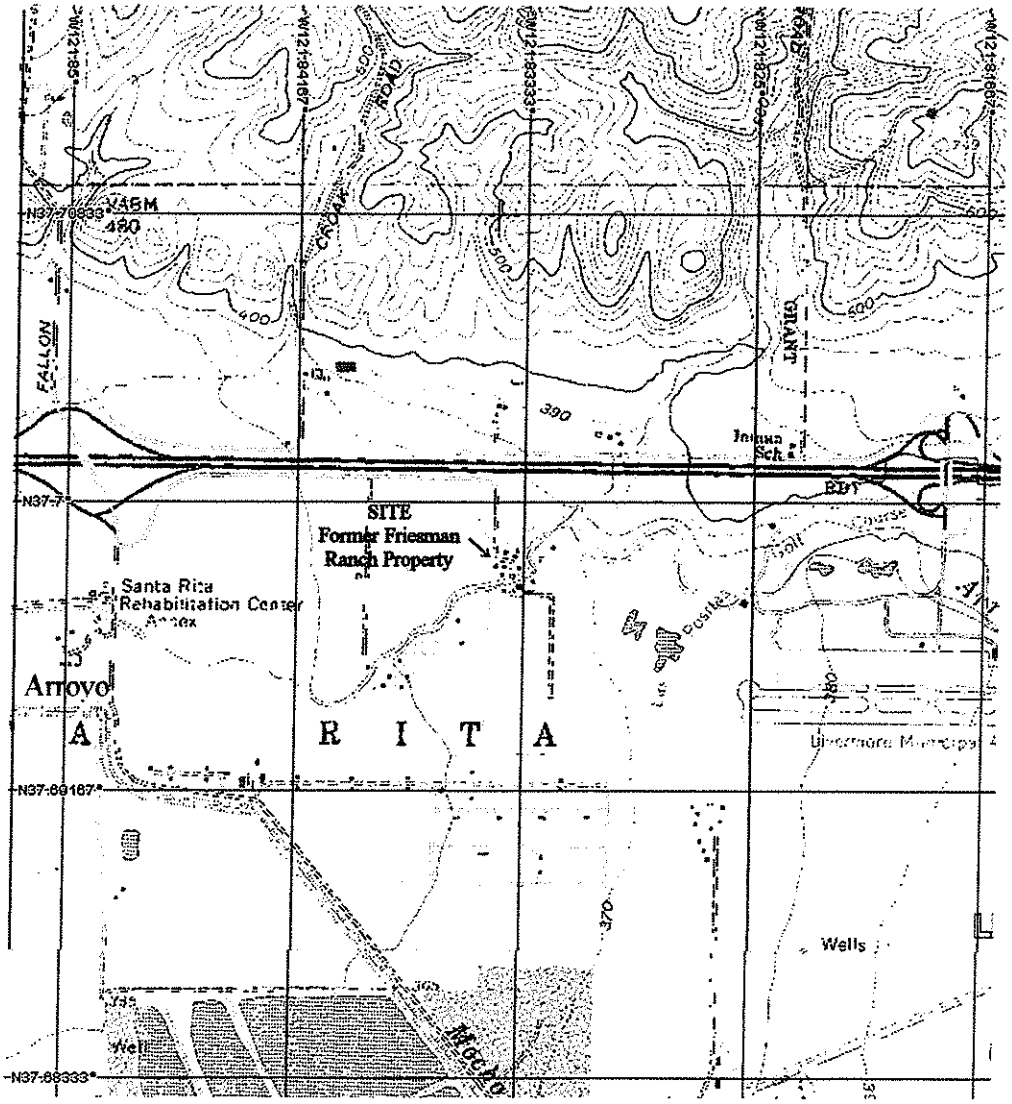
*** The well was burried prior to 15:00 hours. The protective box was stripped of its surmounting cast iron rim , smashed, and packed with soil through field ploughing. The well was located and dug out by 15:00 hours. There was no damage to the well.

TABLE 2
POTENTIOMETRIC SURFACE GRADIENT AND DIRECTION
FIRST QUARTER 2006
FORMER FRIESMAN RANCH PROPERTY
1600 FRIESMAN ROAD
LIVERMORE, CALIFORNIA

	Well Traingle			Gradient Ft./Ft.	Bearing °N = 90 °E = 0	Direction		
01/12/06								
	MW-1	MW-2	MW-7	0.0036	99.76	N	9.76	°W
	MW-1	MW-3	MW-7	0.0028	123.35	N	33.35	°W
	MW-2	MW-3	MW-7	0.0050	135.76	N	45.76	°W
	MW-2	MW-3	MW-6	0.0110	152.10	N	62.10	°W
	MW-3	MW-4	MW-6	0.0080	128.79	N	38.79	°W
	MW-4	MW-5	MW-6	0.0070	126.15	N	36.15	°W
	MW-5	MW-6	MW-8	0.0039	158.02	N	68.02	°W
	MW-2	MW-6	MW-8	0.0043	169.13	N	79.13	°W
			AVERAGE	0.0061	127.95	N	37.95	°W

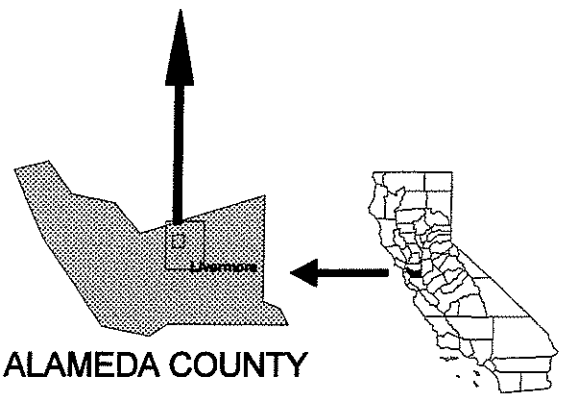
TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FIRST QUARTER 2006
FORMER FRIESMAN RANCH PROPERTY
1600 FRIESMAN ROAD
LIVERMORE, CALIFORNIA
(groundwater analyte concentrations in micrograms per liter)

	TEPH-diesel	TPH-gasoline	Benzene	Toluene	Ethylbenzene	Total Xylene isomers	Methyl tert-butyl ether (MtBE)	tert-Butyl alcohol (TBA)	Di-isopropyl Ether (DIPE)	Ethyl tert-butyl ether (EtBE)	tert-Amyl methyl ether (TAME)	1,2-Dichloroethane	Ethylendibromide
MW-1													
01/12/06	< 50	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5
MW-2													
01/12/06	55	65	< 0.5	< 0.5	1.2	< 1.0	1.6	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5
MW-3													
01/12/06	< 50	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5
MW-4													
01/12/06	< 50	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5
MW-5													
01/12/06	< 50	89	< 0.5	< 0.5	2.0	< 1.0	< 0.5	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5
MW-6													
01/12/06	630	2200	21	33	< 2.0	18	< 2.0	< 20	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0
MW-7													
01/12/06	61	230	0.51	< 0.5	< 0.5	2.8	< 0.5	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5
MW-8													
01/12/06	52	58	< 0.5	< 0.5	0.71	< 1.0	< 0.5	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5



Base from U.S. Geological Survey
7.5 Minute Series Topographic Map
Livermore

1000 0 1000 2000 3000 4000 5000 1 MILE



H2OGEOL
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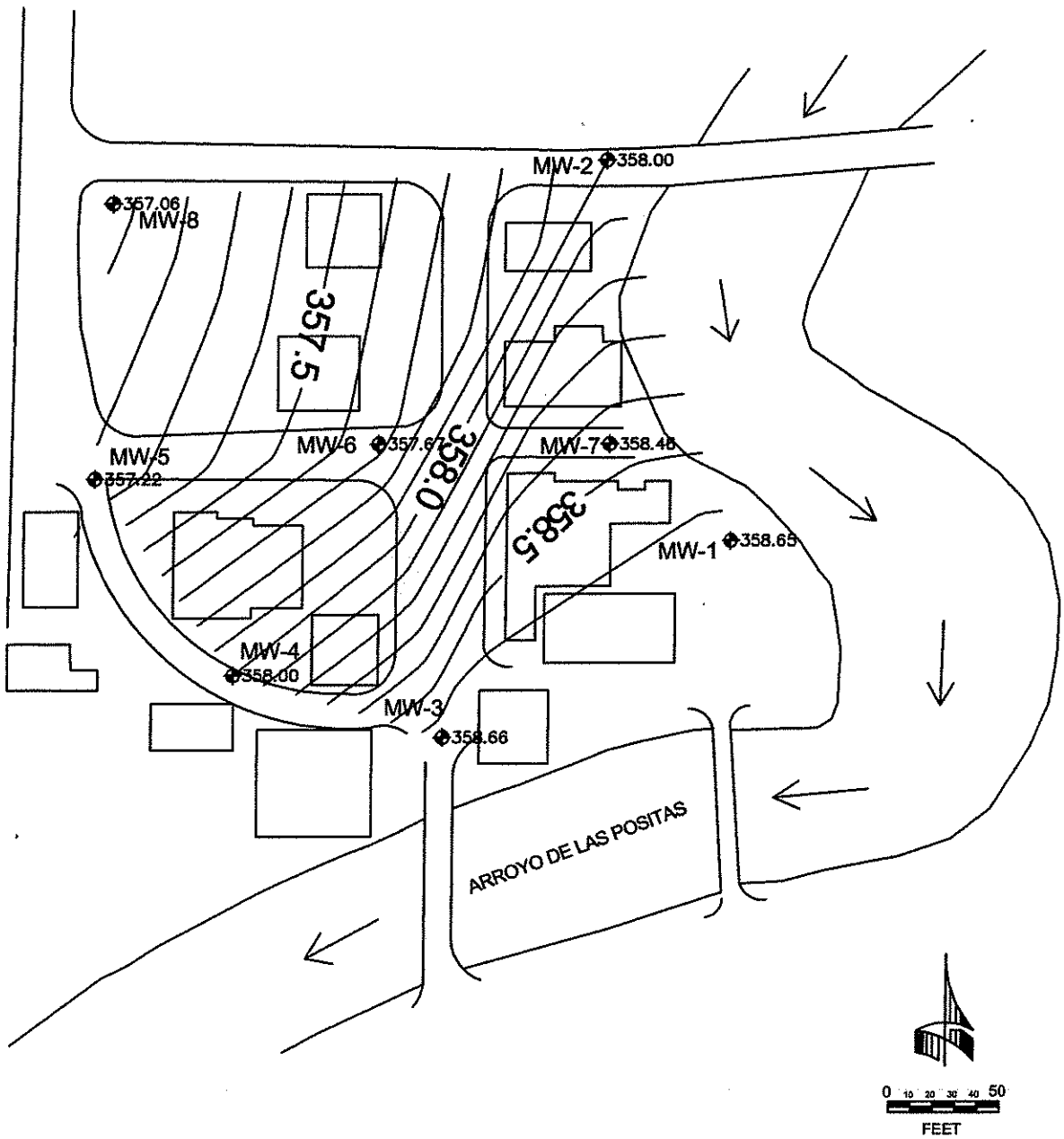
SITE LOCATION MAP SHOWING

FORMER FRIESMAN RANCH PROPERTY
1600 FRIESMAN ROAD
LIVERMORE, CALIFORNIA

FIGURE
1



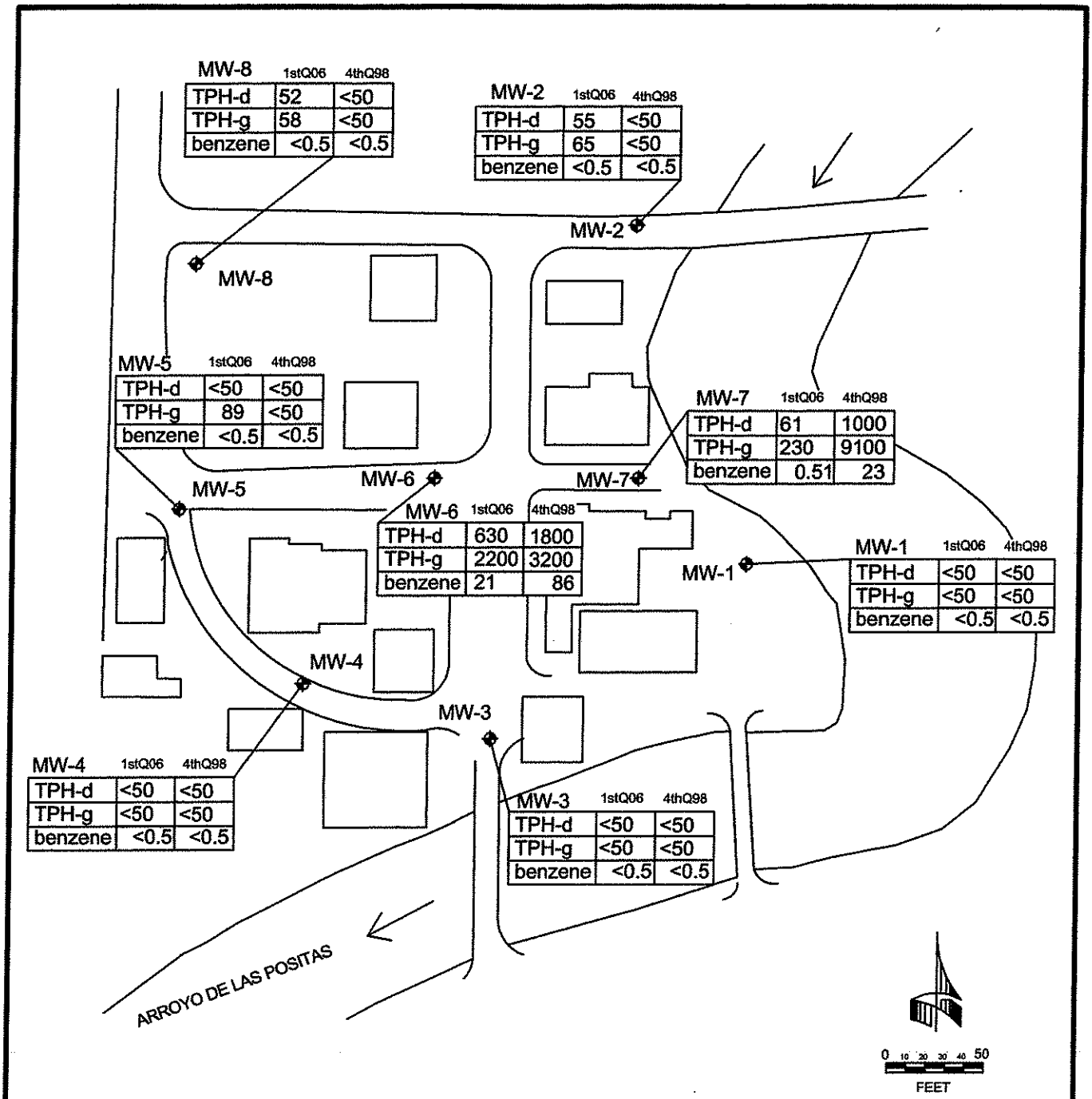
Base from SCS Engineers report dated 12/17/03
in turn from ATC Associates, Inc. 03/26/03 report
Well locations derived from SCS report Figure 3.

CONTOUR INTERVAL = 0.1 FEET.

H2OGEOL
A GROUND WATER CONSULTANCY

POTENTIOMETRIC SURFACE MAP - 01/12/06
FORMER FRIESMAN RANCH PROPERTY
1600 FRIESMAN ROAD
LIVERMORE, CALIFORNIA

FIGURE
2



Base from SCS Engineers report dated 12/17/03
in turn from ATC Associates, Inc. 03/28/03 report
Well locations derived from SCS report Figure 3.

All concentrations in micrograms per Liter.

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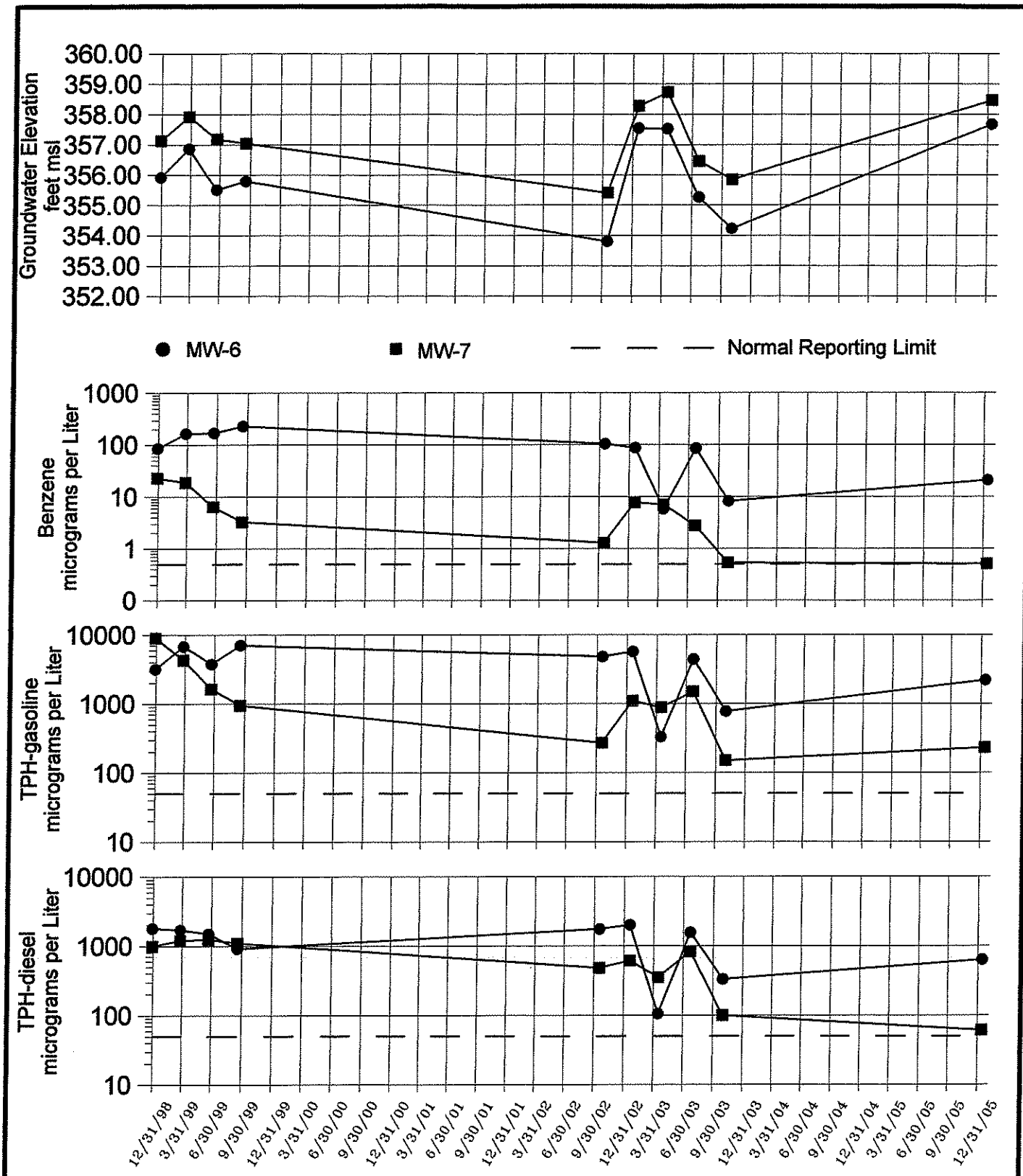
TPH-diesel, TPH-gasoline, and Benzene
FIRST QUARTER 2006 and FOURTH QUARTER 1998
FORMER FRIESMAN RANCH PROPERTY
1600 FRIESMAN ROAD
LIVERMORE, CALIFORNIA

FIGURE
3



H2OGEOL

A GROUND WATER CONSULTANCY

GRAPHS OF GROUNDWATER ELEVATION
TEPH-diesel, TPH-gasoline AND Benzene in MW-6 and MW-7

FORMER FRIESMAN RANCH PROPERTY
1600 FRIESMAN ROAD, LIVERMORE, CALIFORNIA

FIGURE
4

H2OGEOL
A GROUNDWATER CONSULTANCY

P.O.Box 2165 ▪ Livermore, California 94551 ▪ 510-373-9211

ATTACHMENT A

FIELD DATA SHEET
LOG OF WELL SAMPLING ACTIVITIES

LOG OF WELL SAMPLING ACTIVITIES

Former Friesman Ranch property
1600 Friesman Road

Well Identification: MW-1 Project Name: Livermore, California Date: 01/12/06

Sampled by: FEL GDL JAL Weather Conditions: _____

Well Location: _____ Well Casing Diameter: X 4-in. 2-in. Depth of Well Casing: 23.90

Measuring Point Top of PVC Casing Initial Depth to Water: 11.47 Final Depth to Water: Not measured

Casing Volume (1 vol./ 3 vol): 7.83/23.49 Well Borehole Volume: _____

Purging Method: Centrifugal Pump/Peristaltic Pump; Grundfos Submersible Pump; Centrifugal Pump/ES-60 Submersible; ES-40/-60 Submersible Pump; PVC Bailer

Sampling Method: Peristaltic Pump; Grundfos Submersible Pump; PVC Bailer; ES Sub. Pump @ <1L/min.

Purging Rate: See below Total Discharge: _____ Casing Volumes Purged: _____

Comments: _____

Waste Water Disposal: To drum.

Starting Time: _____ DO = 0.4

Time Pump on: 09:56 ORP = _____

Date	Time	Gal. Purged	pH	T deg. F	Diluted S.C.	Dil. Factor			S.C. (µS/cm)	Color
01/12/06	:					x		=		
	10:25	22.5	6.99	62.1		x		=	742	
	10:26	23.0	6.99	62.4		x		=	753	
	10:27	23.5	6.93	62.5		x		=	754	
	10:28	24.0	6.91	63.1		x		=	768	
	:					x		=		
	:					x		=		
	:					x		=		
	:					x		=		
	:					x		=		
	:					x		=		

Sample Identification: 61/FR/MW-1 Sample Time: 10:30

LOG OF WELL SAMPLING ACTIVITIES

Former Friesman Ranch property
1600 Friesman Road

Well Identification: MW-2 Project Name: Livermore, California Date: 01/12/06

Sampled by: FEL GDL JAL Weather Conditions: _____

Well Location: _____ Well Casing Diameter: X 4-in. 2-in. Depth of Well Casing: 24.01

Measuring Point Top of PVC Casing Initial Depth to Water: 12.72 Final Depth to Water: Not measured

Casing Volume (1 vol./ 3 vol): 7.17/21.51 Well Borehole Volume: _____

Purging Method: Centrifugal Pump/Peristaltic Pump; Grundfos Submersible Pump; Centrifugal Pump/ES-60 Submersible; ES-40/-60 Submersible Pump; PVC Bailer

Sampling Method: Peristaltic Pump; Grundfos Submersible Pump; PVC Bailer; ES Sub. Pump @ <1L/min.

Purging Rate: See below Total Discharge: _____ Casing Volumes Purged: _____

Comments: _____

Waste Water Disposal: To drum.

Starting Time: 16:20 DO = _____

Time Pump on: 16:20 ORP = _____

Date	Time	Gal. Purged	pH	T deg. F	Diluted S.C.	Dil. Factor			S.C. (µS/cm)	Color
01/12/06	:					x		=		
	16:55	20.5	6.89	60.2		x		=	696	
	16:56	21.0	6.91	60.6		x		=	702	
	16:57	21.5	6.90	60.8		x		=	700	
	16:58	22.0	6.90	61.0		x		=	698	
	:					x		=		
	:					x		=		
	:					x		=		
	:					x		=		
	:					x		=		
	:					x		=		

Sample Identification: 61/FR/MW-2 Sample Time: ~~16~~17:00

LOG OF WELL SAMPLING ACTIVITIES

Former Friesman Ranch property
1600 Friesman Road

Well Identification: MW-3 Project Name: Livermore, California Date: 01/12/06

Sampled by: FEL GDL JAL Weather Conditions: _____

Well Location: _____ Well Casing Diameter: X 4-in. 2-in. Depth of Well Casing: 24.05

Measuring Point Top of PVC Casing Initial Depth to Water: 10.44 Final Depth to Water: Not measured

Casing Volume (1 vol./ 3 vol): 8.14 / 25.92 Well Borehole Volume: _____

Purging Method: Centrifugal Pump/Peristaltic Pump; Grundfos Submersible Pump; Centrifugal Pump/ES-60 Submersible; ES-40/-60 Submersible Pump; PVC Bailer

Sampling Method: Peristaltic Pump; Grundfos Submersible Pump; PVC Bailer; ES Sub. Pump @ <1L/min.

Purging Rate: See below Total Discharge: _____ Casing Volumes Purged: _____

Comments: _____

Waste Water Disposal: To drum.

Starting Time: _____ DO = 2.4

Time Pump on: ~~11:45~~ 10:45 ORP = _____

Date	Time	Gal. Purged	pH	T deg. F	Diluted S.C.	Dil. Factor			S.C. (µS/cm)	Color
01/12/06	:					x		=		
	11:11	24.5	6.72	61.4		x		=	664	
	11:12	25.0	6.72	61.7		x		=	668	
	11:13	25.5	6.72	61.8		x		=	670	
	11:14	26.0	6.71	62.0		x		=	671	
	:					x		=		
	:					x		=		
	:					x		=		
	:					x		=		
	:					x		=		
	:					x		=		

Sample Identification: 61/FR/MW-3 Sample Time: 11:16

LOG OF WELL SAMPLING ACTIVITIES

Former Friesman Ranch property
1600 Friesman Road

Well Identification: MW-4 Project Name: Livermore, California Date: 01/12/06

Sampled by: FEL GDL JAL Weather Conditions: _____

Well Location: _____ Well Casing Diameter: X 4-in. 2-in. Depth of Well Casing: 23.90

Measuring Point Top of PVC Casing Initial Depth to Water: 11.80 Final Depth to Water: Not measured

Casing Volume (1 vol./ 3 vol): 7.68 / 23.05 Well Borehole Volume: _____

Purging Method: Centrifugal Pump/Peristaltic Pump; Grundfos Submersible Pump; Centrifugal Pump/ES-60 Submersible; ES-40/-60 Submersible Pump; PVC Bailer

Sampling Method: Peristaltic Pump; Grundfos Submersible Pump; PVC Bailer; ES Sub. Pump @ <1L/min.

Purging Rate: See below Total Discharge: _____ Casing Volumes Purged: _____

Comments: _____

Waste Water Disposal: To drum.

Starting Time: _____ DO = 1.3

Time Pump on: 11:54 ORP = _____

Date	Time	Gal. Purged	pH	T deg. F	Diluted S.C.	Dil. Factor			S.C. (µS/cm)	Color
01/12/06	:					x		=		
	11:59	22.0	6.71	64.3		x		=	807	
	12:00	22.5	6.72	64.8		x		=	816	
	12:01	23.0	6.73	65.1		x		=	820	
	12:02	23.5	6.74	65.3		x		=	825	
	:					x		=		
	:					x		=		
	:					x		=		
	:					x		=		
	:					x		=		
	:					x		=		

Sample Identification: 61/FR/MW-4 Sample Time: 12:04

LOG OF WELL SAMPLING ACTIVITIES

Former Friesman Ranch property
1600 Friesman Road

Well Identification: MW-5 Project Name: Livermore, California Date: 01/12/06

Sampled by: FEL GDL JAL Weather Conditions:

Well Location: Well Casing Diameter: X 4-in. 2-in. Depth of Well Casing: 24.05

Measuring Point Top of PVC Casing Initial Depth to Water: 12.30 Final Depth to Water: Not measured

Casing Volume (1 vol./ 3 vol): 7.46/22.38 Well Borehole Volume:

Purging Method: Centrifugal Pump/Peristaltic Pump; Grundfos Submersible Pump; Centrifugal Pump/ES-60 Submersible; ES-40/-60 Submersible Pump; PVC Bailer

Sampling Method: Peristaltic Pump; Grundfos Submersible Pump; PVC Bailer; ES Sub. Pump @ <1L/min.

Purging Rate: See below Total Discharge: Casing Volumes Purged:

Comments:

Waste Water Disposal: To drum.

Starting Time: DO = 0.0

Time Pump on: 15:26 ORP =

Date	Time	Gal. Purged	pH	T deg. F	Diluted S.C.	Dil. Factor			S.C. (µS/cm)	Color
01/12/06	:					x		=		
	15:45	21.0	6.89	63.6		x		=	794	
	15:46	21.5	6.89	63.8		x		=	792	
	15:47	22.0	6.87	63.9		x		=	794	
	15:48	22.5	6.88	64.1		x		=	796	
	:					x		=		
	:					x		=		
	:					x		=		
	:					x		=		
	:					x		=		
	:					x		=		

Sample Identification: 61/FR/MW-5 Sample Time: 15:50

LOG OF WELL SAMPLING ACTIVITIES

Former Friesman Ranch property
1600 Friesman Road

Well Identification: MW-6 Project Name: Livermore, California Date: 01/12/06

Sampled by: FEL GDL JAL Weather Conditions:

Well Location: Well Casing Diameter: X 4-in. 2-in. Depth of Well Casing: 23.80

Measuring Point Top of PVC Casing Initial Depth to Water: 12.41 Final Depth to Water: Not measured

Casing Volume (1 vol./ 3 vol): 7.23/21.70 Well Borehole Volume:

Purging Method: Centrifugal Pump/Peristaltic Pump; Grundfos Submersible Pump; Centrifugal Pump/ES-60 Submersible; ES-40/-60 Submersible Pump; PVC Bailer

Sampling Method: Peristaltic Pump; Grundfos Submersible Pump; PVC Bailer; ES Sub. Pump @ <1L/min.

Purging Rate: See below Total Discharge: Casing Volumes Purged:

Comments:

Waste Water Disposal: To drum.

Starting Time: DO = 0.0

Time Pump on: 14:04 ORP =

Date	Time	Gal. Purged	pH	T deg. F	Diluted S.C.	Dil. Factor			S.C. (µS/cm)	Color
01/12/06	:					x		=		
	14:32	20.5	6.49	67.9		x		=	796	
	14:33	21.0	6.44	68.1		x		=	797	
	14:34	21.5	6.44	68.3		x		=	800	
	14:35	22.0	6.43	68.2		x		=	820	
	:					x		=		
	:					x		=		
	:					x		=		
	:					x		=		
	:					x		=		
	:					x		=		

Sample Identification: 61/FR/MW-6 Sample Time: 14:37

LOG OF WELL SAMPLING ACTIVITIES

Former Friesman Ranch property
1600 Friesman Road

Well Identification: MW-7 Project Name: Livermore, California Date: 01/12/06

Sampled by: FEL GDL JAL Weather Conditions:

Well Location: Well Casing Diameter: X 4-in. 2-in. Depth of Well Casing: 27.60

Measuring Point Top of PVC Casing Initial Depth to Water: 11.58 Final Depth to Water: Not measured

Casing Volume (1 vol./ 3 vol): 7.63/22.90 Well Borehole Volume:

Purging Method: Centrifugal Pump/Peristaltic Pump; Grundfos Submersible Pump; Centrifugal Pump/ES-60 Submersible; ES-40/-60 Submersible Pump; PVC Bailer

Sampling Method: Peristaltic Pump; Grundfos Submersible Pump; PVC Bailer; ES Sub. Pump @ <1L/min.

Purging Rate: See below Total Discharge: Casing Volumes Purged:

Comments:

Waste Water Disposal: To drum.

Starting Time: DO = 0.0

Time Pump on: 12:33 ORP =

Date	Time	Gal. Purged	pH	T deg. F	Diluted S.C.	Dil. Factor	S.C. (µS/cm)	Color
01/12/06	:					x =		
	13:17	21.5	7.54	63.9		x =	816	
	13:18	22.0	7.41	63.8		x =	807	
	13:19	22.5	7.32	64.0		x =	807	
	13:20	23.0	7.28	63.8		x =	800	
	:					x =		
	:					x =		
	:					x =		
	:					x =		
	:					x =		
	:					x =		

Sample Identification: 61/FR/MW-7 Sample Time: 13:22

LOG OF WELL SAMPLING ACTIVITIES

Former Friesman Ranch property
1600 Friesman Road

Well Identification: MW-8 Project Name: Livermore, California Date: 01/12/06

Sampled by: FEL GDL JAL Weather Conditions:

Well Location: Well Casing Diameter: X 4-in. 2-in. Depth of Well Casing: 23.86

Measuring Point Top of PVC Casing Initial Depth to Water: 11.55 Final Depth to Water: Not measured

Casing Volume (1 vol./ 3 vol): 7.82/23.45 Well Borehole Volume:

Purging Method: Centrifugal Pump/Peristaltic Pump; Grundfos Submersible Pump; Centrifugal Pump/ES-60 Submersible; ES-40/-60 Submersible Pump; PVC Bailer

Sampling Method: Peristaltic Pump; Grundfos Submersible Pump; PVC Bailer; ES Sub. Pump @ <1L/min.

Purging Rate: See below Total Discharge: Casing Volumes Purged:

Comments:

Waste Water Disposal: To drum.

Starting Time: DO = 0.2

Time Pump on: 17:46 ORP =

Date	Time	Gal. Purged	pH	T deg. F	Diluted S.C.	Dil. Factor	S.C. (µS/cm)	Color
01/12/06	:					x =		
	17:50	22.0	7.25	59.9		x =	811	
	17:51	22.5	7.15	60.6		x =	821	
	17:52	23.0	7.11	61.0		x =	825	
	17:53	23.5	7.08	61.2		x =	824	
	:					x =		
	:					x =		
	:					x =		
	:					x =		
	:					x =		
	:					x =		

Sample Identification: 61/FR/MW-8 Sample Time: 17:55

H2OGEOL
A GROUNDWATER CONSULTANCY

P.O.Box 2165 ▪ Livermore, California 94551 ▪ 510-373-9211

ATTACHMENT B

LABORATORY ANALYTICAL REPORT
SAMPLE CHAIN OF CUSTODY

ANALYTICAL REPORT

Job Number: 720-1437-1

Job Description: Friesman Ranch Property

For:

H2OGeol
PO BOX 2165
Livermore, CA 94550-2165

Attention: Gary Lowe

Dimple Sharma
Project Manager I
dsharma@stl-inc.com
01/30/2006

METHOD SUMMARY

Client: H2OGeol

Job Number: 720-1437-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	STL-SF	SW846 8260B	
Purge-and-Trap	STL-SF		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	STL-SF	SW846 8015B	
Separatory Funnel Liquid-Liquid Extraction	STL-SF		SW846 3510C

LAB REFERENCES:

STL-SF = STL-San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And its Updates.

SAMPLE SUMMARY

Client: H2OGeol

Job Number: 720-1437-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-1437-1	61/FR/MW-1	Water	01/12/2006 1030	01/13/2006 1046
720-1437-2	61/FR/MW-2	Water	01/12/2006 1700	01/13/2006 1046
720-1437-3	61/FR/MW-3	Water	01/12/2006 1110	01/13/2006 1046
720-1437-4	61/FR/MW-4	Water	01/12/2006 1204	01/13/2006 1046
720-1437-5	61/FR/MW-5	Water	01/12/2006 1550	01/13/2006 1046
720-1437-6	61/FR/MW-6	Water	01/12/2006 1437	01/13/2006 1046
720-1437-7	61/FR/MW-7	Water	01/12/2006 1322	01/13/2006 1046
720-1437-8	61/FR/MW-8	Water	01/12/2006 1755	01/13/2006 1046

Analytical Data

Client: H2OGeol

Job Number: 720-1437-1

Client Sample ID: 61/FR/MW-1

Lab Sample ID: 720-1437-1
Client Matrix: Water

Date Sampled: 01/12/2006 1030
Date Received: 01/13/2006 1046

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 01/24/2006 1822
Date Prepared: 01/24/2006 1822

Analysis Batch: 720-4765

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\01
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	91	77 - 121
1,2-Dichloroethane-d4	97	73 - 130

Analytical Data

Client: H2OGeol

Job Number: 720-1437-1

Client Sample ID: 61/FR/MW-2

Lab Sample ID: 720-1437-2
Client Matrix: Water

Date Sampled: 01/12/2006 1700
Date Received: 01/13/2006 1046

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 01/24/2006 1848
Date Prepared: 01/24/2006 1848

Analysis Batch: 720-4765

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\01
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethylbenzene	1.2		0.50
MTBE	1.6		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	65		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	92	77 - 121
1,2-Dichloroethane-d4	97	73 - 130

Analytical Data

Client: H2OGeol

Job Number: 720-1437-1

Client Sample ID: 61/FR/MW-3

Lab Sample ID: 720-1437-3
Client Matrix: Water

Date Sampled: 01/12/2006 1110
Date Received: 01/13/2006 1046

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 01/25/2006 0417
Date Prepared: 01/25/2006 0417

Analysis Batch: 720-4766

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\01
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	88	77 - 121
1,2-Dichloroethane-d4	100	73 - 130

Client: H2OGeol

Job Number: 720-1437-1

Client Sample ID: 61/FR/MW-4

Lab Sample ID: 720-1437-4
Client Matrix: Water

Date Sampled: 01/12/2006 1204
Date Received: 01/13/2006 1046

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 01/25/2006 0442
Date Prepared: 01/25/2006 0442

Analysis Batch: 720-4766

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\01
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	90	77 - 121
1,2-Dichloroethane-d4	98	73 - 130

Client: H2OGeol

Job Number: 720-1437-1

Client Sample ID: 61/FR/MW-5

Lab Sample ID: 720-1437-5
Client Matrix: Water

Date Sampled: 01/12/2006 1550
Date Received: 01/13/2006 1046

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 01/25/2006 0508
Date Prepared: 01/25/2006 0508

Analysis Batch: 720-4766

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\01
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethylbenzene	2.0		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	89		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	91	77 - 121
1,2-Dichloroethane-d4	101	73 - 130

Analytical Data

Client: H2OGeol

Job Number: 720-1437-1

Client Sample ID: **61/FR/MW-6**

Lab Sample ID: 720-1437-6
Client Matrix: Water

Date Sampled: 01/12/2006 1437
Date Received: 01/13/2006 1046

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 4.0
Date Analyzed: 01/26/2006 0121
Date Prepared: 01/26/2006 0121

Analysis Batch: 720-4835

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\012506\72
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		2.0
Benzene	21		2.0
Ethylbenzene	33		2.0
MTBE	ND		2.0
TAME	ND		2.0
Toluene	ND		2.0
Xylenes, Total	18		4.0
TBA	ND		20
DIPE	ND		4.0
EDB	ND		2.0
Gasoline Range Organics (GRO)-C5-C12	2200		200
Ethyl tert-butyl ether	ND		2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	87	77 - 121
1,2-Dichloroethane-d4	97	73 - 130

Analytical Data

Client: H2OGeol

Job Number: 720-1437-1

Client Sample ID: **61/FR/MW-7**

Lab Sample ID: 720-1437-7
Client Matrix: Water

Date Sampled: 01/12/2006 1322
Date Received: 01/13/2006 1046

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 01/26/2006 0037
Date Prepared: 01/26/2006 0037

Analysis Batch: 720-4835

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\012506\72
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	0.51		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	2.8		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	230		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	93	77 - 121
1,2-Dichloroethane-d4	92	73 - 130

Client: H2OGeol

Job Number: 720-1437-1

Client Sample ID: **61/FR/MW-8**

Lab Sample ID: 720-1437-8
Client Matrix: Water

Date Sampled: 01/12/2006 1755
Date Received: 01/13/2006 1046

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 01/26/2006 0016
Date Prepared: 01/26/2006 0016

Analysis Batch: 720-4635

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\012506\72
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethylbenzene	0.71		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	58		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	90	77 - 121
1,2-Dichloroethane-d4	93	73 - 130

Client: H2OGeol

Job Number: 720-1437-1

Client Sample ID: **61/FR/MW-1**

Lab Sample ID: 720-1437-1
Client Matrix: Water

Date Sampled: 01/12/2006 1030
Date Received: 01/13/2006 1046

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/17/2006 1114
Date Prepared: 01/16/2006 1258

Analysis Batch: 720-4463
Prep Batch: 720-4344

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	73	60 - 130

Client: H2OGeol

Job Number: 720-1437-1

Client Sample ID: 61/FR/MW-2

Lab Sample ID: 720-1437-2
Client Matrix: Water

Date Sampled: 01/12/2006 1700
Date Received: 01/13/2006 1046

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/17/2006 1142
Date Prepared: 01/16/2006 1258

Analysis Batch: 720-4463
Prep Batch: 720-4344

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	55		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	75	60 - 130

Client: H2OGeol

Job Number: 720-1437-1

Client Sample ID: 61/FR/MW-3

Lab Sample ID: 720-1437-3
Client Matrix: Water

Date Sampled: 01/12/2006 1110
Date Received: 01/13/2006 1046

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/17/2006 1209
Date Prepared: 01/16/2006 1258

Analysis Batch: 720-4463
Prep Batch: 720-4344

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	70	60 - 130

Client: H2OGeol

Job Number: 720-1437-1

Client Sample ID: 61/FR/MW-4

Lab Sample ID: 720-1437-4
Client Matrix: Water

Date Sampled: 01/12/2006 1204
Date Received: 01/13/2006 1046

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/17/2006 1237
Date Prepared: 01/16/2006 1258

Analysis Batch: 720-4463
Prep Batch: 720-4344

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	69	60 - 130

Client: H2OGeol

Job Number: 720-1437-1

Client Sample ID: 61/FR/MW-5

Lab Sample ID: 720-1437-5
Client Matrix: Water

Date Sampled: 01/12/2006 1550
Date Received: 01/13/2006 1046

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/17/2006 1305
Date Prepared: 01/16/2006 1258

Analysis Batch: 720-4463
Prep Batch: 720-4344

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	71	60 - 130

Client: H2OGeol

Job Number: 720-1437-1

Client Sample ID: 61/FR/MW-6

Lab Sample ID: 720-1437-6
Client Matrix: Water

Date Sampled: 01/12/2006 1437
Date Received: 01/13/2006 1046

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/17/2006 1333
Date Prepared: 01/16/2006 1258

Analysis Batch: 720-4463
Prep Batch: 720-4344

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	630		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	60	60 - 130

Client: H2OGeol

Job Number: 720-1437-1

Client Sample ID: 61/FR/MW-7

Lab Sample ID: 720-1437-7
Client Matrix: Water

Date Sampled: 01/12/2006 1322
Date Received: 01/13/2006 1046

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/19/2006 1211
Date Prepared: 01/18/2006 1249

Analysis Batch: 720-4607
Prep Batch: 720-4448

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	61		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	68	60 - 130

Analytical Data

Client: H2OGeol

Job Number: 720-1437-1

Client Sample ID: 61/FR/MW-8

Lab Sample ID: 720-1437-8
Client Matrix: Water

Date Sampled: 01/12/2006 1755
Date Received: 01/13/2006 1046

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/19/2006 1238
Date Prepared: 01/18/2006 1249

Analysis Batch: 720-4607
Prep Batch: 720-4448

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	52		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	72	60 - 130

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: H2OGeol

Job Number: 720-1437-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS VOA				
Analysis Batch:720-4765				
LCS 720-4765/16	Lab Control Spike	Water	8260B	
LCSD 720-4765/15	Lab Control Spike Duplicate	Water	8260B	
MB 720-4765/17	Method Blank	Water	8260B	
720-1437-1	61/FR/MW-1	Water	8260B	
720-1437-2	61/FR/MW-2	Water	8260B	
720-1478-A-1 MS	Matrix Spike	Water	8260B	
720-1478-A-1 MSD	Matrix Spike Duplicate	Water	8260B	
Analysis Batch:720-4766				
LCS 720-4766/17	Lab Control Spike	Water	8260B	
MB 720-4766/18	Method Blank	Water	8260B	
720-1434-C-3 MS	Matrix Spike	Water	8260B	
720-1434-C-3 MSD	Matrix Spike Duplicate	Water	8260B	
720-1437-3	61/FR/MW-3	Water	8260B	
720-1437-4	61/FR/MW-4	Water	8260B	
720-1437-5	61/FR/MW-5	Water	8260B	
Analysis Batch:720-4835				
LCS 720-4835/6	Lab Control Spike	Water	8260B	
LCSD 720-4835/5	Lab Control Spike Duplicate	Water	8260B	
MB 720-4835/7	Method Blank	Water	8260B	
720-1437-6	61/FR/MW-6	Water	8260B	
720-1437-7	61/FR/MW-7	Water	8260B	
720-1437-8	61/FR/MW-8	Water	8260B	
720-1644-A-2 MS	Matrix Spike	Water	8260B	
720-1644-A-2 MSD	Matrix Spike Duplicate	Water	8260B	

Client: H2OGeol

Job Number: 720-1437-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC Semi VOA				
Prep Batch: 720-4344				
LCS 720-4344/2-A	Lab Control Spike	Water	3510C	
LCSD 720-4344/3-A	Lab Control Spike Duplicate	Water	3510C	
MB 720-4344/1-A	Method Blank	Water	3510C	
720-1437-1	61/FR/MW-1	Water	3510C	
720-1437-2	61/FR/MW-2	Water	3510C	
720-1437-3	61/FR/MW-3	Water	3510C	
720-1437-4	61/FR/MW-4	Water	3510C	
720-1437-5	61/FR/MW-5	Water	3510C	
720-1437-6	61/FR/MW-6	Water	3510C	
Prep Batch: 720-4448				
LCS 720-4448/2-A	Lab Control Spike	Water	3510C	
LCSD 720-4448/3-A	Lab Control Spike Duplicate	Water	3510C	
MB 720-4448/1-A	Method Blank	Water	3510C	
720-1437-7	61/FR/MW-7	Water	3510C	
720-1437-8	61/FR/MW-8	Water	3510C	
Analysis Batch:720-4463				
LCS 720-4344/2-A	Lab Control Spike	Water	8015B	720-4344
LCSD 720-4344/3-A	Lab Control Spike Duplicate	Water	8015B	720-4344
MB 720-4344/1-A	Method Blank	Water	8015B	720-4344
720-1437-1	61/FR/MW-1	Water	8015B	720-4344
720-1437-2	61/FR/MW-2	Water	8015B	720-4344
720-1437-3	61/FR/MW-3	Water	8015B	720-4344
720-1437-4	61/FR/MW-4	Water	8015B	720-4344
720-1437-5	61/FR/MW-5	Water	8015B	720-4344
720-1437-6	61/FR/MW-6	Water	8015B	720-4344
Analysis Batch:720-4607				
LCS 720-4448/2-A	Lab Control Spike	Water	8015B	720-4448
LCSD 720-4448/3-A	Lab Control Spike Duplicate	Water	8015B	720-4448
MB 720-4448/1-A	Method Blank	Water	8015B	720-4448
720-1437-7	61/FR/MW-7	Water	8015B	720-4448
720-1437-8	61/FR/MW-8	Water	8015B	720-4448

Client: H2OGeol

Job Number: 720-1437-1

Method Blank - Batch: 720-4765

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-4765/17
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/24/2006 1025
Date Prepared: 01/24/2006 1025

Analysis Batch: 720-4765
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\0
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	90	77 - 121
1,2-Dichloroethane-d4	86	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: H2OGeol

Job Number: 720-1437-1

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-4765

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-4765/16
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/24/2006 0933
Date Prepared: 01/24/2006 0933

Analysis Batch: 720-4765
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\0
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-4765/15
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/24/2006 0959
Date Prepared: 01/24/2006 0959

Analysis Batch: 720-4765
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\01
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	109	109	69 - 129	0	25		
MTBE	114	114	65 - 165	0	25		
Toluene	106	108	70 - 130	2	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	91	91	77 - 121
1,2-Dichloroethane-d4	81	82	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: H2OGeol

Job Number: 720-1437-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-4765

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 720-1478-A-1 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/24/2006 1127
Date Prepared: 01/24/2006 1127

Analysis Batch: 720-4765
Prep Batch: N/A

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-1478-A-1 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/24/2006 1153
Date Prepared: 01/24/2006 1153

Analysis Batch: 720-4765
Prep Batch: N/A

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\0
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	104	105	69 - 129	2	20		
MTBE	109	113	65 - 165	3	20		
Toluene	101	102	70 - 130	1	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8	92	91	77 - 121
1,2-Dichloroethane-d4	88	89	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: H2OGeol

Job Number: 720-1437-1

Method Blank - Batch: 720-4766

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-4766/18
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/24/2006 2056
Date Prepared: 01/24/2006 2056

Analysis Batch: 720-4766
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\0
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	94	77 - 121
1,2-Dichloroethane-d4	88	73 - 130

Laboratory Control Sample - Batch: 720-4766

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 720-4766/17
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/24/2006 2031
Date Prepared: 01/24/2006 2031

Analysis Batch: 720-4766
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\0
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	25.0	23	93	69 - 129	
MTBE	25.0	26	103	65 - 165	
Toluene	25.0	24	94	70 - 130	

Surrogate	% Rec	Acceptance Limits
Toluene-d8	92	77 - 121
1,2-Dichloroethane-d4	86	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: H2OGeol

Job Number: 720-1437-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-4766

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 720-1434-C-3 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/24/2006 2122
Date Prepared: 01/24/2006 2122

Analysis Batch: 720-4766
Prep Batch: N/A

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-1434-C-3 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/24/2006 2148
Date Prepared: 01/24/2006 2148

Analysis Batch: 720-4766
Prep Batch: N/A

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\0
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	91	91	69 - 129	1	20		
MTBE	95	93	65 - 165	2	20		
Toluene	93	92	70 - 130	1	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8	94	95	77 - 121
1,2-Dichloroethane-d4	84	86	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: H2OGeol

Job Number: 720-1437-1

Method Blank - Batch: 720-4835

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-4835/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/25/2006 2026
Date Prepared: 01/25/2006 2026

Analysis Batch: 720-4835
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\012506\m
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	89	77 - 121
1,2-Dichloroethane-d4	89	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: H2OGeol

Job Number: 720-1437-1

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-4835

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-4835/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/25/2006 1943
Date Prepared: 01/25/2006 1943

Analysis Batch: 720-4835
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\012506\s
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-4835/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/25/2006 2004
Date Prepared: 01/25/2006 2004

Analysis Batch: 720-4835
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\012506\d-v
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	101	104	69 - 129	3	25		
MTBE	107	106	65 - 165	1	25		
Toluene	113	113	70 - 130	0	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	88	92	77 - 121
1,2-Dichloroethane-d4	87	86	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: H2OGeol

Job Number: 720-1437-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-4835

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 720-1644-A-2 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/26/2006 0248
Date Prepared: 01/26/2006 0248

Analysis Batch: 720-4835
Prep Batch: N/A

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\012506\
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-1644-A-2 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/26/2006 0310
Date Prepared: 01/26/2006 0310

Analysis Batch: 720-4835
Prep Batch: N/A

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\012506\7
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	100	128	69 - 129	9	20		
MTBE	102	111	65 - 165	9	20		
Toluene	109	118	70 - 130	7	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8	91	92	77 - 121
1,2-Dichloroethane-d4	85	86	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: H2OGeol

Job Number: 720-1437-1

Method Blank - Batch: 720-4344

Method: 8015B
Preparation: 3510C

Lab Sample ID: MB 720-4344/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/16/2006 1626
Date Prepared: 01/16/2006 1258

Analysis Batch: 720-4463
Prep Batch: 720-4344
Units: ug/L

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		50

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	71	60 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-4344

Method: 8015B
Preparation: 3510C

LCS Lab Sample ID: LCS 720-4344/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/16/2006 1653
Date Prepared: 01/16/2006 1258

Analysis Batch: 720-4463
Prep Batch: 720-4344
Units: ug/L

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-4344/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/16/2006 1721
Date Prepared: 01/16/2006 1258

Analysis Batch: 720-4463
Prep Batch: 720-4344
Units: ug/L

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	71	70	60 - 130	2	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	79	77	60 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: H2OGeol

Job Number: 720-1437-1

Method Blank - Batch: 720-4448

Method: 8015B
Preparation: 3510C

Lab Sample ID: MB 720-4448/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2006 1048
Date Prepared: 01/18/2006 1249

Analysis Batch: 720-4607
Prep Batch: 720-4448
Units: ug/L

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		50

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	69	60 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-4448

Method: 8015B
Preparation: 3510C

LCS Lab Sample ID: LCS 720-4448/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2006 1115
Date Prepared: 01/18/2006 1249

Analysis Batch: 720-4607
Prep Batch: 720-4448
Units: ug/L

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-4448/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2006 1143
Date Prepared: 01/18/2006 1249

Analysis Batch: 720-4607
Prep Batch: 720-4448
Units: ug/L

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	81	80	60 - 130	1	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	77	76	60 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

300189 720-1437

H2OGEOL A GROUNDWATER CONSULTANCY

P.O. BOX 2165
LIVERMORE, CALIFORNIA 94551-2165

SAMPLER(S) GDL, FEL

SAMPLER'S SIGNATURE

CHAIN OF CUSTODY

DATE: 01/13/06 PAGE 1 of 1

Sample Source: No Global ID # Avail.
Former Friesman Ranch property
1600 Friesman Road
Livermore, California

SEND PAPER COPY OF REPORTS TO ABOVE AND TO

H2OGEOL A GROUNDWATER CONSULTANCY

P O BOX 2165
LIVERMORE, CALIFORNIA 94551-2165

5-Day TAT

Report via *.PDF file of CoC and lab reports to:
~~Provide EDF zip file too~~

eMail: h2ogeol@comcast.net

ANALYTE

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Gas/BTEX/Fuel Oxygenates, DCA, EDB by EPA Method 8260FAB	Method 8015M TEPH-diesel	GeoTracker EDF zip file No	NUMBER OF CONTAINERS
61/FR/MW-1	01/12/06	10:30	WATER		X	X		5
61/FR/MW-2	01/12/06	17:00	WATER		X	X		5
61/FR/MW-3	01/12/06	11:16	WATER		X	X		5
61/FR/MW-4	01/12/06	12:04	WATER		X	X		5
61/FR/MW-5	01/12/06	15:50	WATER		X	X		5
61/FR/MW-6	01/12/06	14:29	WATER		X	X		5
61/FR/MW-7	01/12/06	13:22	WATER		X	X		5
61/FR/MW-8	01/12/06	17:55	WATER		X	X		5

SIGNATURE		SIGNATURE	
PRINTED NAME	Gary D. Lowe	PRINTED NAME	Myrna R. Lowe
COMPANY	H2OGEOL	COMPANY	H2OGEOL
TIME	09:30	TIME	10:46
DATE	01/13/06	DATE	01/13/06
RECEIVED BY		RECEIVED BY LABORATORY	
SIGNATURE		SIGNATURE	
PRINTED NAME	Myrna R. Lowe	PRINTED NAME	T. Bullock
COMPANY	H2OGEOL	COMPANY	STL San Francisco
TIME	9:30	TIME	1046
DATE	01/13/06	DATE	01/13/06

Temp. 2°C

LOGIN SAMPLE RECEIPT CHECK LIST

Client: H2OGeol

Job Number: 720-1437-1

Login Number: 1437

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

APPENDIX B

ZONE 7 WATER AGENCY-DRILLING PERMIT #26218

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

100 NORTH CANYONS PARKWAY, LIVERMORE, CA 94551 PHONE (925) 454-5000

December 18, 2006

Mr. Steve Clements
SCS Engineers
6601 Koll Center Parkway, Suite 140
Pleasanton, CA 94566

Dear Mr. Clements:

Enclosed is drilling permit 26218 for a contamination investigation at 1600 Freisman Road in Livermore for Children's Hospital. Also enclosed is a current drilling permit application for your files. Drilling permit applications for future projects can also be downloaded from our web site at www.zone7water.com.

Please note that permit conditions A-2 and G requires that a report be submitted after completion of the work. The report should include drilling and completion logs, location sketch, permit number and any analysis of the soil and water samples. Please submit the original of your completion report. We will forward your submittal to the California Department of Water Resources.

If you have any questions, please contact me at extension 5056 or Matt Katen at extension 5071.

Sincerely,

Wyman Hong

Wyman Hong
Water Resources Specialist

Enc.

RECEIVED
DEC 20 2006
SCS ENGINEERS

ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 454-5728

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 1600 Freisman Road. Livermore, CA

California Coordinates Source _____ ft. Accuracy _____ ft.
CCN _____ ft. CCE _____ ft.
APN 904-0001-001-10

CLIENT
Name Children's Hospital
Address 5225 Dover St Phone (510) 428-3360
City Oakland, CA Zip 94609

APPLICANT
Name SCS Engineers (Attn: Steve Clements, P.E.)
Fax (925) 240-5629
Address 6601 Koll Center Pky, #140 Phone (925) 240-5152
City Pleasanton, CA Zip 94566

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	••	General	••
Water Supply	••	Contamination	••
Monitoring	••	Well Destruction	••

PROPOSED WELL USE

New Domestic	••	Irrigation	••
Municipal	••	Remediation	••
Industrial	••	Groundwater Monitoring	••
Dewatering	••	Other _____	••••

DRILLING METHOD:

Mud Rotary	••	Air Rotary	••	Hollow Stem Auger	••
Cable Tool	••	Direct Push	✓	Other _____	••••

DRILLING COMPANY TEG
DRILLER'S LICENSE NO. 700568

WELL PROJECTS
Drill Hole Diameter _____ in. Maximum
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number _____

SOIL BORINGS
Number of Borings 33 Maximum
Hole Diameter 2-in to 3-in in. Depth 25 ft.

ESTIMATED STARTING DATE 1/10/07
ESTIMATED COMPLETION DATE 1/12/07

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE _____ Date 12/6/07
Steve Clements P.E. No. 6740

ATTACH SITE PLAN OR SKETCH

FOR OFFICE USE

PERMIT NUMBER 26218
WELL NUMBER _____
APN 904-0001-001-10

PERMIT CONDITIONS

(Circled Permit Requirements Apply)

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
4. A sample port is required on the discharge pipe near the wellhead.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

(D.) GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION. See attached.

(G.) SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after the completion of permitted work the well installation report including all soil and water laboratory analysis results.

Approved Wyman Hong Date 12/15/06
Wyman Hong

Revised: April 27, 2005

APPENDIX C

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION; GROUNDWATER WELL SAMPLES

McCampbell Analytical, Inc.
"When Quality Counts"

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

SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
	Client Contact: Steve Clements	Date Reported: 01/16/07
	Client P.O.:	Date Completed: 01/16/07

WorkOrder: 0701173

January 16, 2007

Dear Steve:

Enclosed are:

1). the results of **9** analyzed samples from your **#01203087.02; Freisman Ranch project,**

2). a QC report for the above samples

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

4). a bill for analytical services.

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

Best regards,

Angela Rydelius, Lab Manager

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SCS Engineers	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/10/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/10/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701173

Lab ID	0701173-001B
Client ID	3S/1E 2P3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	98	%SS2:	91
%SS3:	90		

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		Date Received: 01/09/07
	Client Contact: Steve Clements	Date Extracted: 01/10/07
	Client P.O.:	Date Analyzed 01/10/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701173

Lab ID	0701173-001B
Client ID	3S/1E 2P3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit

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; q) reported in ppm

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SCS Engineers	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/11/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/11/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701173

Lab ID	0701173-002B
Client ID	KMW-1
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	98	%SS2:	90
%SS3:	90		

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	Client Contact: Steve Clements	Date Extracted: 01/11/07
	Client P.O.:	Date Analyzed 01/11/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701173

Lab ID	0701173-002B
Client ID	KMW-1
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit

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; q) reported in ppm

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SCS Engineers	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/11/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/11/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701173

Lab ID	0701173-003B
Client ID	KMW-2
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	99	%SS2:	89
%SS3:	90		

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	Client Contact: Steve Clements	Date Extracted: 01/11/07
	Client P.O.:	Date Analyzed 01/11/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701173

Lab ID	0701173-003B
Client ID	KMW-2
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit

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; q) reported in ppm

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SCS Engineers	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/11/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/11/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701173

Lab ID	0701173-004B
Client ID	KMW-3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	99	%SS2:	89
%SS3:	90		

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Telephone: 877-252-9262 Fax: 925-252-9269

SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
	Client Contact: Steve Clements	Date Extracted: 01/11/07
	Client P.O.:	Date Analyzed 01/11/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701173

Lab ID	0701173-004B
Client ID	KMW-3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit

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; q) reported in ppm

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SCS Engineers	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/11/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/11/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701173

Lab ID	0701173-005B
Client ID	KMW-4
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	99	%SS2:	89
%SS3:	89		

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SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
	Client Contact: Steve Clements	Date Extracted: 01/11/07
	Client P.O.:	Date Analyzed 01/11/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701173

Lab ID	0701173-005B
Client ID	KMW-4
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit

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; q) reported in ppm

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SCS Engineers	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/11/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/11/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701173

Lab ID	0701173-006B
Client ID	KMW-5
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	98	%SS2:	89
%SS3:	89		

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SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
	Client Contact: Steve Clements	Date Extracted: 01/11/07
	Client P.O.:	Date Analyzed 01/11/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701173

Lab ID	0701173-006B
Client ID	KMW-5
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit

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; q) reported in ppm

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SCS Engineers	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/11/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/11/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701173

Lab ID	0701173-007B
Client ID	KMW-6
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	3.1	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	0.60	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	0.72	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	1.9	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	1.1	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	3.2	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	1.8	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	0.65	1.0	0.5

Surrogate Recoveries (%)

%SS1:	94	%SS2:	87
%SS3:	87		

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SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
	Client Contact: Steve Clements	Date Extracted: 01/11/07
	Client P.O.:	Date Analyzed 01/11/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701173

Lab ID	0701173-007B
Client ID	KMW-6
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit

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; q) reported in ppm

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SCS Engineers	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/11/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/11/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701173

Lab ID	0701173-008B
Client ID	KMW-7
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	0.57	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	0.72	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	1.3	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	3.2	1.0	0.5

Surrogate Recoveries (%)

%SS1:	96	%SS2:	---#
%SS3:	87		

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SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
	Client Contact: Steve Clements	Date Extracted: 01/11/07
	Client P.O.:	Date Analyzed 01/11/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701173

Lab ID	0701173-008B
Client ID	KMW-7
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit

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; q) reported in ppm

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SCS Engineers	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/11/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/11/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701173

Lab ID	0701173-009B
Client ID	KMW-8
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	98	%SS2:	90
%SS3:	89		

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SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
	Client Contact: Steve Clements	Date Extracted: 01/11/07
	Client P.O.:	Date Analyzed 01/11/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701173

Lab ID	0701173-009B
Client ID	KMW-8
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit

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; q) reported in ppm

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SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
	Client Contact: Steve Clements	Date Extracted: 01/10/07-01/12/07
	Client P.O.:	Date Analyzed 01/10/07-01/12/07

Gasoline Range(C6-C12) & Stoddard Solvent Range(C9-C12) Volatile Hydrocarbons as Gasoline & Stoddard Solvent *

Extraction method SW5030B Analytical methods SW8015Cm Work Order: 0701173

Lab ID	Client ID	Matrix	TPH(g)	TPH(ss)	DF	% SS
0701173-001A	3S/1E 2P3	W	ND	ND	1	97
0701173-002A	KMW-1	W	ND	ND	1	114
0701173-003A	KMW-2	W	ND	ND	1	100
0701173-004A	KMW-3	W	ND	ND	1	108
0701173-005A	KMW-4	W	ND	ND	1	98
0701173-006A	KMW-5	W	ND	ND	1	101
0701173-007A	KMW-6	W	180,a	70	1	122
0701173-008A	KMW-7	W	330,a	110	1	113
0701173-009A	KMW-8	W	ND	ND	1	98

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
	Client Contact: Steve Clements	Date Extracted: 01/09/07
	Client P.O.:	Date Analyzed 01/10/07-01/16/07

Lead by ICP-MS*

Extraction method E200.8 Analytical methods E200.8 Work Order: 0701173

Lab ID	Client ID	Matrix	Extraction	Lead	DF	% SS
0701173-001C	3S/1E 2P3	W	DISS.	ND	1	N/A
0701173-002C	KMW-1	W	DISS.	ND	1	N/A
0701173-003C	KMW-2	W	DISS.	ND	1	N/A
0701173-004C	KMW-3	W	DISS.	ND	1	N/A
0701173-005C	KMW-4	W	DISS.	ND	1	N/A
0701173-006C	KMW-5	W	DISS.	ND	1	N/A
0701173-007C	KMW-6	W	DISS.	ND	1	N/A
0701173-008C	KMW-7	W	DISS.	ND	1	N/A
0701173-009C	KMW-8	W	DISS.	ND	1	N/A

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

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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SCS Engineers	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
6601 Koll Center Pkwy, Ste 140		Date Received: 01/09/07
Pleasanton, CA 94566	Client Contact: Steve Clements	Date Extracted: 01/09/07
	Client P.O.:	Date Analyzed 01/10/07-01/11/07

Diesel Range (C10-C23) Extractable Hydrocarbons with Silica Gel Clean-Up*

Extraction method SW3510C/3630C Analytical methods SW8015C Work Order: 070117

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0701173-001A	3S/1E 2P3	W	ND	1	96
0701173-002A	KMW-1	W	ND	1	82
0701173-003A	KMW-2	W	ND	1	88
0701173-004A	KMW-3	W	ND	1	94
0701173-005A	KMW-4	W	ND	1	80
0701173-006A	KMW-5	W	ND	1	93
0701173-007A	KMW-6	W	53,d	1	87
0701173-008A	KMW-7	W	84,d	1	87
0701173-009A	KMW-8	W	ND	1	93

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/matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified 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.

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0701173

EPA Method SW8260B **Extraction SW5030B** **BatchID: 25634** **Spiked Sample ID: 0701175-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME	ND	10	94.4	95.2	0.839	90	90.7	0.827	70 - 130	30	70 - 130	30
Benzene	ND	10	119	119	0	125	124	0.467	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	111	113	1.97	111	119	7.17	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	102	103	0.485	101	98.3	2.78	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	102	107	5.37	103	103	0	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	114	115	0.285	109	108	0.812	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	90.4	90.1	0.353	96	97	1.07	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	107	109	1.33	106	107	0.921	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	100	101	0.915	95.9	97.4	1.54	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	106	105	0.980	97.8	98.7	0.901	70 - 130	30	70 - 130	30
Toluene	ND	10	98.7	103	4.05	102	97.4	4.53	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	77.6	78.1	0.557	77.8	77	1.03	70 - 130	30	70 - 130	30
%SS1:	98	10	109	112	1.96	107	107	0	70 - 130	30	70 - 130	30
%SS2:	90	10	92	96	4.90	89	87	1.86	70 - 130	30	70 - 130	30
%SS3:	89	10	100	101	1.39	102	101	1.19	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 25634 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0701173-001	1/09/07	1/10/07	1/10/07 11:27 PM	0701173-002	1/09/07	1/11/07	1/11/07 12:12 AM
0701173-003	1/09/07	1/11/07	1/11/07 6:38 PM	0701173-004	1/09/07	1/11/07	1/11/07 1:43 AM
0701173-005	1/09/07	1/11/07	1/11/07 2:28 AM	0701173-006	1/09/07	1/11/07	1/11/07 3:13 AM
0701173-007	1/09/07	1/11/07	1/11/07 7:23 PM	0701173-008	1/09/07	1/11/07	1/11/07 8:08 PM
0701173-009	1/09/07	1/11/07	1/11/07 5:25 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.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0701173

EPA Method SW8021B/8015Cm Extraction SW5030B BatchID: 25630 Spiked Sample ID: 0701168-004A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	105	106	0.854	97.1	97.5	0.492	70 - 130	30	70 - 130	30
MTBE	ND	10	120	127	5.50	90	90.2	0.317	70 - 130	30	70 - 130	30
Benzene	ND	10	107	101	5.59	93.3	95.3	2.19	70 - 130	30	70 - 130	30
Toluene	ND	10	96.7	90.4	6.75	85.6	86.6	1.16	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	105	100	4.90	91.5	89	2.84	70 - 130	30	70 - 130	30
Xylenes	0.9	30	97	92.7	4.43	90.7	91	0.367	70 - 130	30	70 - 130	30
%SS:	102	10	105	102	3.13	98	97	0.269	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 25630 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0701173-001	1/09/07	1/10/07	1/10/07 8:37 PM	0701173-002	1/09/07	1/10/07	1/10/07 9:07 PM
0701173-003	1/09/07	1/10/07	1/10/07 10:06 PM	0701173-004	1/09/07	1/12/07	1/12/07 8:55 AM
0701173-005	1/09/07	1/10/07	1/10/07 11:05 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.

McCampbell Analytical, Inc.
"When Quality Counts"

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

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0701173

EPA Method SW8021B/8015Cm Extraction SW5030B BatchID: 25635 Spiked Sample ID: 0701173-009A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	97.1	82.7	16.0	99.7	82	19.5	70 - 130	30	70 - 130	30
MTBE	ND	10	81.2	106	26.6	84.5	99.8	16.5	70 - 130	30	70 - 130	30
Benzene	ND	10	94.2	116	21.1	99.4	83.8	17.0	70 - 130	30	70 - 130	30
Toluene	ND	10	87.4	101	14.6	90.5	76.6	16.6	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	93.7	98.8	5.23	99.1	85.9	14.4	70 - 130	30	70 - 130	30
Xylenes	ND	30	91.3	90	1.47	95.7	81.7	15.8	70 - 130	30	70 - 130	30
%SS:	98	10	98	117	18.3	102	90	12.5	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 25635 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0701173-006	1/09/07	1/10/07	1/10/07 11:34 PM	0701173-007	1/09/07	1/10/07	1/10/07 4:39 PM
0701173-008	1/09/07	1/11/07	1/11/07 2:01 AM	0701173-009	1/09/07	1/11/07	1/11/07 12:03 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.

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QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0701173

EPA Method: E200.8	Extraction: E200.8				BatchID: 25640			Spiked Sample ID: 0701176-002A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	11	10	101	99.5	0.571	97.6	97	0.606	75 - 125	20	85 - 115	20
%SS:	105	750	105	105	0	102	101	0.223	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 25640 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0701173-009C	1/09/07	1/09/07	1/16/07 3:54 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 applicable to this method.

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

McCampbell Analytical, Inc.
"When Quality Counts"

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

QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0701173

EPA Method SW8015C **Extraction SW3510C/3630C** **BatchID: 25625** **Spiked Sample ID: N/A**

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(d)	N/A	1000	N/A	N/A	N/A	113	109	3.90	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	94	100	6.52	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 25625 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0701173-001	1/09/07	1/09/07	1/10/07 7:18 PM	0701173-002	1/09/07	1/09/07	1/10/07 8:25 PM
0701173-003	1/09/07	1/09/07	1/10/07 9:33 PM	0701173-004	1/09/07	1/09/07	1/10/07 10:40 PM
0701173-005	1/09/07	1/09/07	1/10/07 11:46 PM	0701173-006	1/09/07	1/09/07	1/11/07 3:06 AM
0701173-007	1/09/07	1/09/07	1/11/07 4:12 AM	0701173-008	1/09/07	1/09/07	1/11/07 5:18 AM
0701173-009	1/09/07	1/09/07	1/11/07 6:24 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.

SCS ENGINEERS Environmental Consultants

6601 Koll Center Parkway
Suite 140
Pleasanton, CA 94566

925 426-0080
FAX 925 426-0707
www.scsengineers.com

TOTAL NUMBER OF SAMPLES: 9

PAGE 1 OF 1

TURNAROUND TIME REQUIRED: Normal
___5-Day ___3-Day ___Immediate ____Other

PROJECT NUMBER: 01203087.02

PROJECT MANAGER: S. Clements

PROJECT NAME: Freisman Ranch

W.O. / S.O. #:

PROJECT LOCATION: 1600 Freisman Road Livermore, CA

SAMPLER NAME AND SIGNATURE: Ted Sison

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TPH-g-d-ss 8015C	Full 8260	dissolved Lead	LAB USE ONLY
	3S/1E 2P3	H_2O	1-9-07	various	4 VOA w/ HCl		X	X	X	
	Kmw-1	↓	↓	↓	↓		X	X	X	
	Kmw-2						X	X	X	
	Kmw-3						X	X	X	
	Kmw-4						X	X	X	
	Kmw-5						X	X	X	
	Kmw-6						X	X	X	
	Kmw-7						X	X	X	
	Kmw-8						X	X	X	

ICE/T: 4.8 C°
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
PRESERVATION

APPROPRIATE CONTAINERS
PRESERVED IN LAB

VOAS	O&G	METALS	OTHER

NOTES:
Please use Silica Gel clean up for TPH. Please lab filter for Lead.
Well Kmw-2 had a lot of roots in well casing.

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:	RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
	1-9-07		1/9/07				
COMPANY: SCS	TIME: 4:07	COMPANY:	TIME:	COMPANY:	TIME:	COMPANY:	TIME:

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0701173 **ClientID: SCSD**

☐ EDF ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

Report to:
Steve Clements
SCS Engineers
6601 Koll Center Pkwy, Ste 140
Pleasanton, CA 94566
Email: sclements@scseng.com
TEL: (925) 426-0080 FAX: (925) 426-0707
ProjectNo: #01203087.02; Freisman Ranch
PO:

Bill to:
Accounts Payable
SCS Engineers
6601 Koll Center Pkwy, Ste 140
Pleasanton, CA 94566

Requested TAT: **5 days**

Date Received: **01/09/2007**
Date Printed: **01/09/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0701173-001	3S/1E 2P3	Water	1/9/07	☐	B	A	C	C								
0701173-002	KMW-1	Water	1/9/07	☐	B	A	C	C								
0701173-003	KMW-2	Water	1/9/07	☐	B	A	C	C								
0701173-004	KMW-3	Water	1/9/07	☐	B	A	C	C								
0701173-005	KMW-4	Water	1/9/07	☐	B	A	C	C								
0701173-006	KMW-5	Water	1/9/07	☐	B	A	C	C								
0701173-007	KMW-6	Water	1/9/07	☐	B	A	C	C								
0701173-008	KMW-7	Water	1/9/07	☐	B	A	C	C								
0701173-009	KMW-8	Water	1/9/07	☐	B	A	C	C								

Test Legend:

1	8260B_W	2	G-MBTEX_W	3	PBMS_DISS	4	PRDISSOLVED	5	
6		7		8		9		10	
11		12							

The following SampIDs: 0701173-001A, 0701173-002A, 0701173-003A, 0701173-004A, 0701173-005A, 0701173-006A, 0701173-007A, 0701173-008A, 0701173-009A contain testgroup. Please make sure all relevant testcodes are reported. Many thanks.

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.

APPENDIX D

LABORATORY ANALYTICAL REPORT; SOIL VAPOR SAMPLES

TRANSGLOBAL
ENVIRONMENTAL
GEOCHEMISTRY

2 February 2007

Mr. Steve Clements
SCS Engineers
6601 Koll Center Parkway, Suite 140
Pleasanton, CA 94566

SUBJECT: DATA REPORT - SCS Engineers Project # 01203087.02
Freisman Ranch, Livermore, California

TEG Project # 70110D

Mr. Clements:

Please find enclosed a data report for the samples analyzed from the above referenced project for SCS Engineers. The samples were analyzed on site in TEG's mobile laboratory. TEG conducted a total of 24 analyses on 24 soil vapor samples.

-- 24 analyses on soil vapors for selected volatile organic hydrocarbons by EPA method 8260B.

The results of the analyses are summarized in the enclosed tables. Applicable detection limits and calibration data are included in the tables.

1,1 difluoroethane was used as a leak check compound around the probe rods during the soil vapor sampling. No 1,1 difluoroethane was detected in any of the vapor samples reported at or above the DTSC recommended leak check compound reporting limit of 10 µg/L of vapor.

TEG appreciates the opportunity to have provided analytical services to SCS Engineers on this project. If you have any further questions relating to these data or report, please do not hesitate to contact us.

Sincerely,

Mark Jerpbak
Director, TEG-Northern California

RECEIVED
FEB 0 8 2007
SCS ENGINEERS

11350 Monier Park Place, Rancho Cordova, CA 95742 Phone: (916) 853-8010 Fax: (916) 853-8020

teg

SCS Project # 01203087.02
Freisman Ranch, Livermore, California

TEG Project #70110D

EPA Method 8260B VOC Analyses of SOIL VAPOR in ug/L of Vapor

SAMPLE NUMBER:		Probe Blank	Probe Blank	SV-1	SV-2	SV-3	SV-4	SV-5
SAMPLE DEPTH (feet):				5.0	5.0	5.0	5.0	5.0
PURGE VOLUME:				3	3	3	3	3
COLLECTION DATE:		01/10/07	01/11/07	01/10/07	01/10/07	01/10/07	01/10/07	01/10/07
COLLECTION TIME:		08:25	09:05	09:00	09:15	09:35	09:50	10:15
DILUTION FACTOR (VOCs):		1	1	1	1	1	1	1
	RL							
Dichlorodifluoromethane	0.10	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride	0.10	nd	nd	nd	nd	nd	nd	nd
Chloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	0.10	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	0.10	nd	nd	nd	nd	nd	nd	nd
Methylene Chloride	0.10	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd	nd
Methyl-t-butyl-ether (MTBE)	0.10	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.10	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.10	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
Benzene	0.080	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.10	nd	nd	nd	nd	nd	nd	nd
Toluene	0.20	nd	nd	nd	nd	0.35	nd	0.20
1,1,2-Trichloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane	0.10	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.10	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.10	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
m,p-Xylene	0.20	nd	nd	nd	nd	0.44	nd	0.25
o-Xylene	0.10	nd	nd	nd	nd	0.14	nd	nd
1,1,2,2-Tetrachloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
1,1 Diflouroethane (leak check)	10	nd	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		101%	102%	103%	104%	102%	104%	103%
Surrogate Recovery (1,2-DCA-d4)		100%	102%	106%	108%	102%	105%	108%
Surrogate Recovery (Toluene-d8)		98%	98%	100%	102%	101%	97%	100%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab
Analyses performed by: Mr. John Henkelman

11350 Monier Park Place, Rancho Cordova, CA 95742 Phone: (916) 853-8010 Fax: (916) 853-8020

TEG Project #70110D

EPA Method 8260B VOC Analyses of SOIL VAPOR in ug/L of Vapor

SAMPLE NUMBER:		SV-5 dup	SV-6	SV-7	SV-8	SV-9	SV-10	SV-11
SAMPLE DEPTH (feet):		5.0	5.0	5.0	3.0	5.0	5.0	3.0
PURGE VOLUME:		3	3	3	3	3	3	3
COLLECTION DATE:		01/10/07	01/10/07	01/10/07	01/10/07	01/10/07	01/10/07	01/10/07
COLLECTION TIME:		10:50	10:30	12:00	11:40	12:20	12:40	13:00
DILUTION FACTOR (VOCs):		1	1	1	1	1	1	1
	RL							
Dichlorodifluoromethane	0.10	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride	0.10	nd	nd	nd	nd	nd	nd	nd
Chloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	0.10	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	0.10	nd	nd	nd	nd	nd	nd	nd
Methylene Chloride	0.10	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd	nd
Methyl-t-butyl-ether (MTBE)	0.10	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.10	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.10	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
Benzene	0.080	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.10	nd	nd	nd	nd	nd	nd	nd
Toluene	0.20	nd	nd	nd	nd	0.25	nd	0.23
1,1,2-Trichloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane	0.10	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.10	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.10	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
m,p-Xylene	0.20	0.26	0.24	nd	0.21	0.28	0.25	0.27
o-Xylene	0.10	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
1,1 Diflouroethane (leak check)	10	nd	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		104%	105%	104%	107%	107%	106%	105%
Surrogate Recovery (1,2-DCA-d4)		110%	107%	111%	112%	119%	110%	113%
Surrogate Recovery (Toluene-d8)		99%	99%	98%	99%	102%	101%	98%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab
Analyses performed by: Mr. John Henkelman

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TEG Project #70110D

EPA Method 8260B VOC Analyses of SOIL VAPOR in ug/L of Vapor

SAMPLE NUMBER:		SV-12	SV-13	SV-14	SV-15	SV-16	SV-17	SV-18
SAMPLE DEPTH (feet):		5.0	4.0	5.0	5.0	4.0	5.0	5.0
PURGE VOLUME:		3	3	3	3	3	3	3
COLLECTION DATE:		01/10/07	01/10/07	01/10/07	01/10/07	01/11/07	01/11/07	01/11/07
COLLECTION TIME:		13:25	13:55	14:45	15:00	09:25	09:45	10:10
DILUTION FACTOR (VOCs):		1	1	1	1	1	1	1
	RL							
Dichlorodifluoromethane	0.10	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride	0.10	nd	nd	nd	nd	nd	nd	nd
Chloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	0.10	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	0.10	nd	nd	nd	nd	nd	nd	nd
Methylene Chloride	0.10	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd	nd
Methyl-t-butyl-ether (MTBE)	0.10	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.10	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.10	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
Benzene	0.080	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.10	nd	nd	nd	nd	nd	nd	nd
Toluene	0.20	0.22	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane	0.10	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.10	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.10	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
m,p-Xylene	0.20	0.22	0.21	nd	nd	nd	nd	nd
o-Xylene	0.10	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	0.10	nd	nd	nd	nd	nd	nd	nd
1,1 Diflouroethane (leak check)	10	nd	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		103%	105%	108%	106%	101%	102%	113%
Surrogate Recovery (1,2-DCA-d4)		108%	109%	111%	111%	105%	106%	122%
Surrogate Recovery (Toluene-d8)		101%	101%	101%	103%	100%	102%	98%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab
Analyses performed by: Mr. John Henkelman

11350 Monier Park Place, Rancho Cordova, CA 95742 Phone: (916) 853-8010 Fax: (916) 853-8020

TEG Project #70110D

EPA Method 8260B VOC Analyses of SOIL VAPOR in ug/L of Vapor

SAMPLE NUMBER:		SV-19	SV-20	SV-21	SV-22	SV-22 dup
SAMPLE DEPTH (feet):		5.0	4.0	5.0	4.0	4.0
PURGE VOLUME:		3	3	3	3	3
COLLECTION DATE:		01/11/07	01/11/07	01/11/07	01/11/07	01/11/07
COLLECTION TIME:		10:30	10:55	11:50	11:30	12:05
DILUTION FACTOR (VOCs):		1	1	1	1	1
	RL					
Dichlorodifluoromethane	0.10	nd	nd	nd	nd	nd
Vinyl Chloride	0.10	nd	nd	nd	nd	nd
Chloroethane	0.10	nd	nd	nd	nd	nd
Trichlorofluoromethane	0.10	nd	nd	nd	nd	nd
1,1-Dichloroethene	0.10	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	0.10	nd	nd	nd	nd	nd
Methylene Chloride	0.10	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	0.10	nd	nd	nd	nd	nd
Methyl-t-butyl-ether (MTBE)	0.10	nd	nd	nd	nd	nd
1,1-Dichloroethane	0.10	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	0.10	nd	nd	nd	nd	nd
Chloroform	0.10	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	0.10	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.10	nd	nd	nd	nd	nd
1,2-Dichloroethane	0.10	nd	nd	nd	nd	nd
Benzene	0.080	nd	nd	nd	nd	nd
Trichloroethene	0.10	nd	nd	nd	nd	nd
Toluene	0.20	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	0.10	nd	nd	nd	nd	nd
1,2-Dibromoethane	0.10	nd	nd	nd	nd	nd
Tetrachloroethene	0.10	nd	nd	nd	nd	nd
Ethylbenzene	0.10	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	0.10	nd	nd	nd	nd	nd
m,p-Xylene	0.20	nd	nd	nd	nd	nd
o-Xylene	0.10	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	0.10	nd	nd	nd	nd	nd
1,1 Diflouroethane (leak check)	10	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		104%	104%	104%	107%	104%
Surrogate Recovery (1,2-DCA-d4)		110%	106%	106%	107%	112%
Surrogate Recovery (Toluene-d8)		102%	99%	104%	98%	99%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab
Analyses performed by: Mr. John Henkelman

11350 Monier Park Place, Rancho Cordova, CA 95742 Phone: (916) 853-8010 Fax: (916) 853-8020

TEG Project #70110D

CALIBRATION STANDARDS - Initial Calibration / LCS

Instrument: Agilent 5973N MSD

COMPOUND	INITIAL CALIBRATION RF	INITIAL CALIBRATION %RSD	LCS RF	LCS %DIFF
Dichlorodifluoromethane*	0.306	3.3%	0.309	1.0%
Vinyl Chloride*	0.481	11.7%	0.497	3.3%
Chloroethane*	0.262	24.1%	0.311	18.7%
Trichlorofluoromethane*	0.862	12.3%	0.813	5.7%
1,1-Dichloroethene	0.354	10.5%	0.316	10.7%
1,1,2-Trichloro-trifluoroethane*	0.560	12.1%	0.536	4.3%
Methylene Chloride	0.445	10.7%	0.412	7.4%
trans-1,2-Dichloroethene	0.425	13.2%	0.458	7.8%
1,1-Dichloroethane	0.450	7.5%	0.443	1.6%
cis-1,2-Dichloroethene	0.326	16.5%	0.322	1.2%
Chloroform	0.490	12.6%	0.471	3.9%
1,1,1-Trichloroethane	0.457	11.7%	0.472	3.3%
Carbon Tetrachloride	0.385	11.7%	0.413	7.3%
1,2-Dichloroethane	0.330	14.7%	0.313	5.2%
Benzene	1.228	15.1%	1.184	3.6%
Trichloroethene	0.324	11.4%	0.316	2.5%
Toluene	0.942	14.7%	0.899	4.6%
1,1,2-Trichloroethane	0.146	16.2%	0.142	2.7%
Tetrachloroethene	0.427	12.9%	0.377	11.7%
Ethylbenzene	0.687	19.0%	0.598	13.0%
1,1,1,2-Tetrachloroethane	0.420	19.1%	0.376	10.5%
m,p-Xylene	0.709	17.4%	0.794	12.0%
o-Xylene	0.652	14.4%	0.675	3.5%
1,1,2,2-Tetrachloroethane	0.283	13.9%	0.304	7.4%
ACCEPTABLE LIMITS:		20.0%		15.0%

'*' INDICATES RSD NOT TO EXCEED 30% & LCS NOT TO EXCEED 25%

APPENDIX E

BORING LOGS (SCS-1 THROUGH SCS-3)

SCS ENGINEERS

BORING LOG

6601 Koll Center Parkway, Suite 140
Pleasanton, California 94568

BORING NUMBER: SCS-1

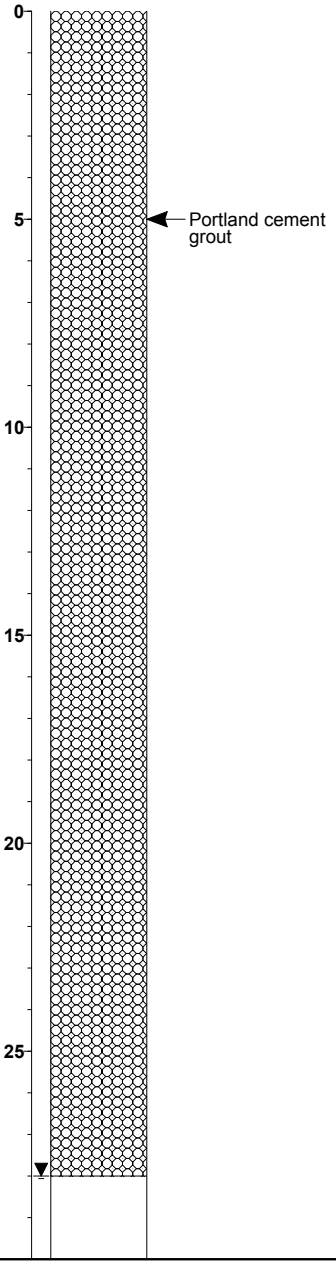
Freisman Ranch
1600 Freisman Road
Livermore, CA

JOB NUMBER: 01203087.02

REMARKS:
Placed temporary well casing for groundwater sample collection consisting of 0.5" PVC and five feet of 0.020" slotted screen.

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							Asphalt
1			SCS-1 2.5'		0.0	SM		Very fine sandy silt, brown, slightly moist, no odor.
	5		SCS-1 5.0'		1.0	SM		Very fine sandy silt, very few coarse sands, brown, slightly moist, no odor.
2								
3	10		SCS-1 10.0'		2.0	SM		Very fine sandy silt (approximately 50:50), very few coarse sands, brown, slightly moist, no odor.
4								
	15		SCS-1 15.0'		1.8	CL		Silty clay, little very fine sand, brown, moist, no odor.
5								
6	20		SCS-1 20.0'		0.0	CL		Clay, little silt, brown, moist, no odor.
7								
	25		SCS-1 25.0'		2.1	SM		Very fine sandy silt, brown, moist, no odor.
8								
9								
	30							

Completion Detail



Drilling Company: **TEG**
Drilling Method: **Direct Push**
Logged By: **T. Sison**
Sampling Method: **Continuous Core**

Date Started: **1/11/07**
Date Ended: **1/11/07**
Boring Diameter: **2.25"**

Depth to Water: **28.0 ft**
Total Depth: **28.0 ft**

STANDARD_LOG FREISMAN RANCH 2007.GPJ STD_LOG.GDT 2/2/07

SCS ENGINEERS

BORING LOG

6601 Koll Center Parkway, Suite 140
Pleasanton, California 94568

BORING NUMBER: SCS-2 Page 1 of 1

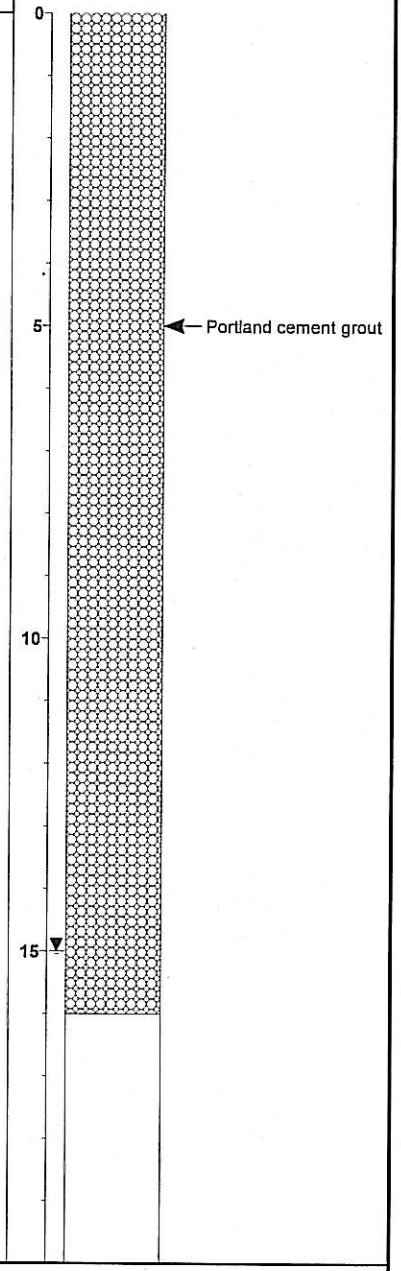
Freisman Ranch
1600 Freisman Road
Livermore, CA

JOB NUMBER: 01203087.02

REMARKS:
Placed temporary well casing for groundwater sample collection consisting of 0.5" PVC and five feet of 0.020" slotted screen.

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							Concrete
	1							
	2							
	3							No Recovery
1	4							
	5							No Recovery
	6							
2	7		SCS-2 6.5'		2.3	SC		Clayey very fine sand, little silt, brown, dry, no odor.
	8							
	9							
3	10							
	11		SCS-2 10.5'		0.7	SW		Well graded sand, few fine gravels, brown, moist, no odor.
	12							
4	13							
	14							
	15		SCS-2 15'		1.1	SW		Well graded sand, few fine gravels, brown, moist, no odor.
5	16							
	17							
	18							
	19							
6	20							

Completion Detail



Drilling Company: **TEG**
Drilling Method: **Direct Push**
Logged By: **T. Sison**
Sampling Method: **Continuous Core**

Date Started: **1/11/07**
Date Ended: **1/11/07**
Boring Diameter: **2.25"**

Depth to Water: **15.0 ft**
Total Depth: **16.0 ft**

STANDARD_LOG FREISMAN RANCH 2007.GPJ STD_LOG.GDT 2/20/07

SCS ENGINEERS

BORING LOG

6601 Koll Center Parkway, Suite 140
Pleasanton, California 94568

BORING NUMBER: SCS-3

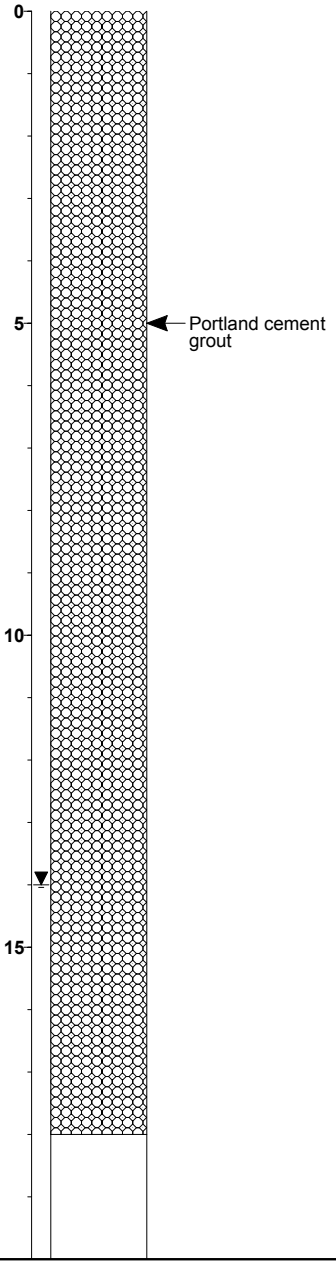
Freisman Ranch
1600 Freisman Road
Livermore, CA

JOB NUMBER: 01203087.02

REMARKS:
Placed temporary well casing for groundwater sample collection consisting of 0.5" PVC and five feet of 0.020" slotted screen.

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
			SCS-3 2.5'		1.0	CL		Very fine sandy clay, very few coarse sands, dark brown, moist, no odor.
								No Recovery
			SCS-3 6.5'		1.6	CL		Very fine sandy clay, very few coarse sands, dark brown, moist, no odor.
			SCS-3 10'		2.7	SW		Well graded fine to medium sand, few coarse sands, brown, very moist, no odor.
			SCS-3 15'		2.6	SW		Well graded sand, little clay, brown, wet, no odor.

Completion Detail



Drilling Company: **TEG**
Drilling Method: **Direct Push**
Logged By: **T. Sison**
Sampling Method: **Continuous Core**

Date Started: **1/11/07**
Date Ended: **1/11/07**
Boring Diameter: **2.25"**

Depth to Water: **14.0 ft**
Total Depth: **18.0 ft**

STANDARD_LOG FREISMAN RANCH 2007.GPJ STD_LOG.GDT 2/2/07

APPENDIX F

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION; SOIL BORINGS/TEMPORARY WELLS (SOIL AND GROUNDWATER SAMPLES)

McCampbell Analytical, Inc.
"When Quality Counts"

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

SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01203087.02	Date Sampled: 01/11/07
		Date Received: 01/11/07
	Client Contact: Steve Clements	Date Reported: 01/18/07
	Client P.O.:	Date Completed: 01/18/07

WorkOrder: 0701229

January 18, 2007

Dear Steve:

Enclosed are:

1). the results of **12** analyzed samples from your **#01203087.02 project,**

2). a QC report for the above samples

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

4). a bill for analytical services.

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

Best regards,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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

SCS Engineers	Client Project ID: #01203087.02	Date Sampled: 01/11/07
		Date Received: 01/11/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/11/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/13/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701229

Lab ID	0701229-001A
Client ID	SCS-1, 2.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	99	%SS2:	99
%SS3:	89		

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.

McCampbell Analytical, Inc.
"When Quality Counts"

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

SCS Engineers	Client Project ID: #01203087.02	Date Sampled: 01/11/07
		Date Received: 01/11/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/11/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/13/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701229

Lab ID	0701229-002A
Client ID	SCS-1, 5.0'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	100	%SS2:	100
%SS3:	88		

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.

McCampbell Analytical, Inc.
"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

SCS Engineers	Client Project ID: #01203087.02	Date Sampled: 01/11/07
		Date Received: 01/11/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/11/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/13/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701229

Lab ID	0701229-004A
Client ID	SCS-1, 15.0'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	100	%SS2:	98
%SS3:	89		

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.

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SCS Engineers	Client Project ID: #01203087.02	Date Sampled: 01/11/07
		Date Received: 01/11/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/11/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/13/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701229

Lab ID	0701229-007A
Client ID	SCS-1, 6.5"
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	96	%SS2:	100
%SS3:	90		

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.

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SCS Engineers	Client Project ID: #01203087.02	Date Sampled: 01/11/07
		Date Received: 01/11/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/11/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/13/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701229

Lab ID	0701229-008A
Client ID	SCS-2, 10.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	96	%SS2:	100
%SS3:	87		

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.

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SCS Engineers	Client Project ID: #01203087.02	Date Sampled: 01/11/07
		Date Received: 01/11/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/11/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/13/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701229

Lab ID	0701229-009A
Client ID	SCS-2, 15'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	97	%SS2:	97
%SS3:	90		

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.

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SCS Engineers	Client Project ID: #01203087.02	Date Sampled: 01/11/07
		Date Received: 01/11/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/11/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/13/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701229

Lab ID	0701229-010A
Client ID	SCS-2,2.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	97	%SS2:	98
%SS3:	83		

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.

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SCS Engineers	Client Project ID: #01203087.02	Date Sampled: 01/11/07
		Date Received: 01/11/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/11/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/13/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701229

Lab ID	0701229-011A
Client ID	SCS-3, 6.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	96	%SS2:	99
%SS3:	89		

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.

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SCS Engineers	Client Project ID: #01203087.02	Date Sampled: 01/11/07
		Date Received: 01/11/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/11/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/13/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701229

Lab ID	0701229-013A
Client ID	SCS-3, 15'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	94	%SS2:	99
%SS3:	87		

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.

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SCS Engineers	Client Project ID: #01203087.02	Date Sampled: 01/11/07
		Date Received: 01/11/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/14/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/14/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701229

Lab ID	0701229-014B
Client ID	SCS-1 GW
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	1.6	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	102	%SS2:	94
%SS3:	91		

Comments: i

* 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; q) reported in ppm

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SCS Engineers	Client Project ID: #01203087.02	Date Sampled: 01/11/07
		Date Received: 01/11/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/16/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/16/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701229

Lab ID	0701229-015B
Client ID	SCS-2 GW
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	1.1	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	103	%SS2:	97
%SS3:	103		

Comments: i

* 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; q) reported in ppm

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SCS Engineers	Client Project ID: #01203087.02	Date Sampled: 01/11/07
		Date Received: 01/11/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/14/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/14/07

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0701229

Lab ID	0701229-016B
Client ID	SCS-3 GW
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	104	%SS2:	95
%SS3:	91		

Comments: i

* 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; q) reported in ppm

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SCS Engineers	Client Project ID: #01203087.02	Date Sampled: 01/11/07
6601 Koll Center Pkwy, Ste 140		Date Received: 01/11/07
Pleasanton, CA 94566	Client Contact: Steve Clements	Date Extracted: 01/11/07-01/12/07
	Client P.O.:	Date Analyzed 01/12/07-01/16/07

Gasoline Range (C6-C12) & Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons as Gasoline & Stoddard Solvent*

Extraction method SW5030B Analytical methods SW8015Cm Work Order: 0701229

Lab ID	Client ID	Matrix	TPH(g)	TPH(ss)	DF	% SS
0701229-001A	SCS-1, 2.5'	S	ND	ND	1	92
0701229-002A	SCS-1, 5.0'	S	ND	ND	1	93
0701229-004A	SCS-1, 15.0'	S	ND	ND	1	99
0701229-007A	SCS-1, 6.5"	S	ND	ND	1	92
0701229-008A	SCS-2, 10.5'	S	ND	ND	1	93
0701229-009A	SCS-2, 15'	S	ND	ND	1	85
0701229-010A	SCS-2,2.5'	S	ND	ND	1	100
0701229-011A	SCS-3, 6.5'	S	ND	ND	1	97
0701229-013A	SCS-3, 15'	S	ND	ND	1	88
0701229-014A	SCS-1 GW	W	ND,i	ND	1	109
0701229-015A	SCS-2 GW	W	ND,i	ND	1	110
0701229-016A	SCS-3 GW	W	ND,i	ND	1	108

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	50	µg/L
	S	1.0	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 McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised

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SCS Engineers	Client Project ID: #01203087.02	Date Sampled: 01/11/07
6601 Koll Center Pkwy, Ste 140		Date Received: 01/11/07
Pleasanton, CA 94566	Client Contact: Steve Clements	Date Extracted: 01/11/07
	Client P.O.:	Date Analyzed 01/12/07

Lead by ICP-MS*

Extraction method E200.8 Analytical methods E200.8 Work Order: 0701229

Lab ID	Client ID	Matrix	Extraction	Lead	DF	% SS
0701229-014C	SCS-1 GW	W	DISS.	ND,i	1	N/A
0701229-015C	SCS-2 GW	W	DISS.	ND,i	1	N/A
0701229-016C	SCS-3 GW	W	DISS.	ND,i	1	N/A

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

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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SCS Engineers	Client Project ID: #01203087.02	Date Sampled: 01/11/07
6601 Koll Center Pkwy, Ste 140		Date Received: 01/11/07
Pleasanton, CA 94566	Client Contact: Steve Clements	Date Extracted: 01/11/07
	Client P.O.:	Date Analyzed 01/13/07

Diesel Range (C10-C23) Extractable Hydrocarbons with Silica Gel Clean-Up*

Extraction method SW3510C/3630C/SW3550C/3630C Analytical methods SW8015C Work Order: 0701229

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0701229-001A	SCS-1, 2.5'	S	ND	1	106
0701229-002A	SCS-1, 5.0'	S	ND	1	100
0701229-004A	SCS-1, 15.0'	S	ND	1	100
0701229-007A	SCS-1, 6.5"	S	ND	1	99
0701229-008A	SCS-2, 10.5'	S	ND	1	101
0701229-009A	SCS-2, 15'	S	ND	1	101
0701229-010A	SCS-2,2.5'	S	ND	1	106
0701229-011A	SCS-3, 6.5'	S	ND	1	99
0701229-013A	SCS-3, 15'	S	ND	1	99
0701229-014A	SCS-1 GW	W	ND,i	1	108
0701229-015A	SCS-2 GW	W	ND,i	1	108
0701229-016A	SCS-3 GW	W	ND,i	1	105

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	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 McCampbell 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; r) results are reported on a dry weight basis

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0701229

EPA Method SW8260B **Extraction SW5030B** **BatchID: 25683** **Spiked Sample ID: 0701231-001A**

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	110	103	6.09	92.4	93.7	1.37	70 - 130	30	70 - 130	30
Benzene	ND	0.050	126	128	1.91	119	120	0.910	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	107	112	4.77	104	99.8	3.96	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	114	109	4.65	96.3	98	1.82	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	120	121	1.11	106	110	3.58	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	128	121	4.99	108	110	2.08	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	98.5	80.7	19.8	85.7	89.8	4.67	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	124	121	2.48	104	109	4.02	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	116	113	3.09	99.3	101	2.14	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	122	117	4.21	101	105	3.25	70 - 130	30	70 - 130	30
Toluene	ND	0.050	105	116	10.1	101	106	4.66	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	86.3	82.6	4.43	76	77.7	2.21	70 - 130	30	70 - 130	30
%SS1:	95	0.050	107	109	1.38	113	110	2.27	70 - 130	30	70 - 130	30
%SS2:	90	0.050	82	95	14.6	92	95	3.30	70 - 130	30	70 - 130	30
%SS3:	85	0.050	91	106	14.6	104	105	0.274	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 25683 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0701229-001	1/11/07	1/11/07	1/13/07 1:53 AM	0701229-002	1/11/07	1/11/07	1/13/07 2:37 AM
0701229-004	1/11/07	1/11/07	1/13/07 3:21 AM	0701229-007	1/11/07	1/11/07	1/13/07 4:04 AM
0701229-008	1/11/07	1/11/07	1/13/07 4:48 AM	0701229-009	1/11/07	1/11/07	1/13/07 5:32 AM
0701229-010	1/11/07	1/11/07	1/13/07 6:15 AM	0701229-011	1/11/07	1/11/07	1/13/07 6:59 AM
0701229-013	1/11/07	1/11/07	1/13/07 7:42 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.

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0701229

EPA Method SW8260B **Extraction SW5030B** **BatchID: 25671** **Spiked Sample ID: 0701229-016B**

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	90.5	93.4	3.16	94.3	94.4	0.0988	70 - 130	30	70 - 130	30
Benzene	ND	10	119	121	1.37	125	121	3.28	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	101	110	9.27	96.1	104	8.12	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	103	102	1.46	107	104	3.39	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	99.8	103	3.43	112	108	3.16	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	111	114	2.57	115	114	0.695	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	81.1	82.6	1.83	93.7	82.9	12.3	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	105	107	1.50	109	108	0.770	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	96.9	101	4.23	103	101	1.55	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	98.5	102	3.11	105	106	0.142	70 - 130	30	70 - 130	30
Toluene	ND	10	98.9	100	1.18	111	106	4.46	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	76.3	76.2	0.0808	83.1	78.9	5.18	70 - 130	30	70 - 130	30
%SS1:	104	10	109	111	1.49	111	109	2.12	70 - 130	30	70 - 130	30
%SS2:	95	10	93	94	0.839	99	97	1.49	70 - 130	30	70 - 130	30
%SS3:	91	10	99	101	1.63	102	100	1.10	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 25671 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0701229-014	1/11/07	1/14/07	1/14/07 12:59 PM	0701229-015	1/11/07	1/16/07	1/16/07 1:02 PM
0701229-016	1/11/07	1/14/07	1/14/07 11:31 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.

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

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0701229

EPA Method SW8021B/8015Cm Extraction SW5030B BatchID: 25690 Spiked Sample ID: 0701231-006A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	105	104	0.597	105	106	1.36	70 - 130	30	70 - 130	30
MTBE	ND	0.10	85.1	91.3	7.03	87.6	83.2	5.23	70 - 130	30	70 - 130	30
Benzene	ND	0.10	101	96.3	4.41	93	89.7	3.56	70 - 130	30	70 - 130	30
Toluene	ND	0.10	91	87.1	4.37	83.2	80.7	3.08	70 - 130	30	70 - 130	30
Ethylbenzene	ND	0.10	99.2	93.7	5.66	83.3	89.7	7.35	70 - 130	30	70 - 130	30
Xylenes	ND	0.30	95	91	4.30	90.7	86.3	4.90	70 - 130	30	70 - 130	30
%SS:	83	0.10	96	85	12.2	82	80	2.47	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 25690 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0701229-001	1/11/07	1/11/07	1/12/07 3:39 PM	0701229-002	1/11/07	1/11/07	1/12/07 4:08 PM
0701229-004	1/11/07	1/11/07	1/12/07 4:38 PM	0701229-007	1/11/07	1/11/07	1/16/07 2:29 PM
0701229-008	1/11/07	1/11/07	1/12/07 6:20 PM	0701229-009	1/11/07	1/11/07	1/12/07 7:09 PM
0701229-010	1/11/07	1/11/07	1/12/07 7:38 PM	0701229-011	1/11/07	1/11/07	1/12/07 8:07 PM
0701229-013	1/11/07	1/11/07	1/12/07 8:36 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.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0701229

EPA Method SW8021B/8015Cm Extraction SW5030B BatchID: 25682 Spiked Sample ID: 0701247-001A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	86.1	86.8	0.508	98.8	100	1.25	70 - 130	30	70 - 130	30
MTBE	ND	10	82.8	86.8	4.74	82.1	83.5	1.62	70 - 130	30	70 - 130	30
Benzene	ND	10	90.4	94	3.90	92.8	93.2	0.378	70 - 130	30	70 - 130	30
Toluene	ND	10	95.9	98.7	2.91	92.1	92.5	0.430	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	92.2	93.4	1.38	95.4	95.9	0.484	70 - 130	30	70 - 130	30
Xylenes	ND	30	99.7	100	0.334	107	107	0	70 - 130	30	70 - 130	30
%SS:	99	10	98	98	0	94	95	0.466	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 25682 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0701229-014	1/11/07	1/12/07	1/12/07 9:24 AM	0701229-015	1/11/07	1/12/07	1/12/07 9:53 AM
0701229-016	1/11/07	1/12/07	1/12/07 10:51 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.

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QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0701229

EPA Method E200.8 **Extraction E200.8** **BatchID: 25685** **Spiked Sample ID: 0701239-007A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	ND	10	96.6	92.9	3.97	96.7	96.1	0.591	75 - 125	20	85 - 115	20
%SS:	109	750	108	104	3.80	103	102	0.0525	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 25685 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0701229-014	1/11/07	1/11/07	1/12/07 2:55 AM	0701229-015	1/11/07	1/11/07	1/12/07 3:00 AM
0701229-016	1/11/07	1/11/07	1/12/07 3:05 AM				

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

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

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

N/A = not applicable to this method.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0701229

EPA Method SW8015C **Extraction SW3550C/3630C** **BatchID: 25619** **Spiked Sample ID: 0701152-031A**

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)	1.1	20	120	121	0.714	101	100	1.11	70 - 130	30	70 - 130	30
%SS:	95	50	100	101	0.735	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 25619 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0701229-001	1/11/07	1/11/07	1/13/07 4:22 AM	0701229-002	1/11/07	1/11/07	1/13/07 1:04 AM
0701229-004	1/11/07	1/11/07	1/13/07 2:10 AM	0701229-007	1/11/07	1/11/07	1/13/07 3:16 AM
0701229-008	1/11/07	1/11/07	1/13/07 4:22 AM	0701229-009	1/11/07	1/11/07	1/13/07 7:40 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.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0701229

EPA Method SW8015C **Extraction SW3550C/3630C** **BatchID: 25698** **Spiked Sample ID: 0701277-001A**

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)	ND	20	96.5	97.8	1.33	96.9	101	3.71	70 - 130	30	70 - 130	30
%SS:	94	50	96	99	0.823	96	101	4.84	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 25698 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0701229-010	1/11/07	1/11/07	1/13/07 3:16 AM	0701229-011	1/11/07	1/11/07	1/13/07 8:47 AM
0701229-013	1/11/07	1/11/07	1/13/07 9:53 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.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0701229

EPA Method SW8015C **Extraction SW3510C/3630C** **BatchID: 25625** **Spiked Sample ID: N/A**

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(d)	N/A	1000	N/A	N/A	N/A	113	109	3.90	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	94	100	6.52	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 25625 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0701229-014	1/11/07	1/11/07	1/13/07 7:40 AM	0701229-015	1/11/07	1/11/07	1/13/07 8:47 AM
0701229-016	1/11/07	1/11/07	1/13/07 9:53 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.

SCS ENGINEERS Environmental Consultants

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Pleasanton, CA 94566

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TOTAL NUMBER OF SAMPLES: 76

PAGE 1 OF 2

TURNAROUND TIME REQUIRED: Normal
___5-Day ___3-Day ___Immediate ____Other

PROJECT NUMBER: 01203087.02

PROJECT MANAGER: S. Clements

PROJECT NAME: Freisman Ranch

W.O. / S.O. #:

PROJECT LOCATION: 1600 Freisman Rd, Livermore, CA

SAMPLER NAME AND SIGNATURE: TED SISON

ANALYSES REQUESTED — LAB USE ONLY

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	8015C TPH-g-d-55	Full 8260	dissolved Lead		Archive						
	SCS-1, 2.5'	soil	1-11-07	Acetate sleeve	n/a		X	X			X						
	SCS-1, 5.0'						X	X			X						
	SCS-1, 10.0'										X						
	SCS-1, 15.0'						X	X			X						
	SCS-1, 20.0'										X						
	SCS-1, 25.0'										X						
	SCS-2, 6.5'						X	X			X						
	SCS-2, 10.5'						X	X			X						
	SCS-2, 15'						X	X			X						
	SCS-3, 2.5'						X	X			X						
	SCS-3, 6.5'						X	X			X						
	SCS-3, 10'										X						
	SCS-3, 15'						X	X			X						
	SCS-1 GW	H_2O		Various	4 VOAs w/ HCl		X	X	X								
	SCS-2 GW						X	X	X								

NOTES:
please lab filter samples for dissolved metals
please use silica gel cleanup whenever appropriate

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE: 1-11-07	RECEIVED BY: Envirotech TL	DATE: 1/11/07	RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE: 1/11/07
COMPANY: SCS	TIME: 5:02	COMPANY:	TIME: 17:04	COMPANY:	TIME:	COMPANY:	TIME:

01/11/2007 18:22 9253708037 ENVIROTECH SERVICES PAGE 02/02

SCS ENGINEERS Environmental Consultants

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Pleasanton, CA 94566

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TOTAL NUMBER OF SAMPLES: 16

PAGE 2 OF 2

TURNAROUND TIME REQUIRED: Normal

___5-Day ___3-Day ___Immediate ___Other

PROJECT MANAGER: S. Clements

PROJECT NUMBER: 01203087.02

W.O. / S.O. #:

PROJECT NAME: Freisman Ranch

PROJECT LOCATION: 1600 Freisman Rd Livermore, CA

SAMPLER NAME AND SIGNATURE: TED SISON

ANALYSES REQUIRED

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	Boise TPH-g-SS	Full 8260	dissolved lead	
	SCS-3 GW	H_2O	1-11-07	various	4 VOAs w/ HCl		X	X	X	

SAMPLE CONDITION UPON RECEIPT:

NOTES:

RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:	RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
COMPANY: SCS	TIME: 5:02	COMPANY:	TIME: 17:02	COMPANY:	TIME:	COMPANY:	TIME:

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0701229 **ClientID: SCSD**

☐ EDF ☐ Fax ☑ Email ☐ HardCop ☐ ThirdPart

Report to:
Steve Clements
SCS Engineers
6601 Koll Center Pkwy, Ste 140
Pleasanton, CA 94566

Email: sclements@scseng.com
TEL: (925) 426-008 FAX: (925) 426-070
ProjectNo: #01203087.02
PO:

Bill t
Accounts Payable
SCS Engineers
6601 Koll Center Pkwy, Ste 140
Pleasanton, CA 94566

Requested TAT: 5 days

Date Received **01/11/2007**
Date Printed: **01/12/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0701229-001	SCS-1, 2.5'	Soil	1/11/2007	☐	A		A									
0701229-002	SCS-1, 5.0'	Soil	1/11/2007	☐	A		A									
0701229-004	SCS-1, 15.0'	Soil	1/11/2007	☐	A		A									
0701229-007	SCS-1, 6.5"	Soil	1/11/2007	☐	A		A									
0701229-008	SCS-2, 10.5'	Soil	1/11/2007	☐	A		A									
0701229-009	SCS-2, 15'	Soil	1/11/2007	☐	A		A									
0701229-010	SCS-2,2.5'	Soil	1/11/2007	☐	A		A									
0701229-011	SCS-3, 6.5'	Soil	1/11/2007	☐	A		A									
0701229-013	SCS-3, 15'	Soil	1/11/2007	☐	A		A									
0701229-014	SCS-1 GW	Water	1/11/2007	☐		B		A	C	C						
0701229-015	SCS-2 GW	Water	1/11/2007	☐		B		A	C	C						
0701229-016	SCS-3 GW	Water	1/11/2007	☐		B		A	C	C						

Test Legend:

1	8260B_S	2	8260B_W	3	G-MBTEX_S	4	G-MBTEX_W	5	PBMS_DISS
6	PRDISSOLVED	7		8		9		10	
11		12							

The following SampIDs: 0701229-001A, 0701229-002A, 0701229-004A, 0701229-007A, 0701229-008A, 0701229-009A, 0701229-010A, 0701229-011A, 0701229-013A, 0701229-014A, 0701229-015A, 0701229-016A contain testgroup. Please make sure all relevant

Prepared by: Sheli Cryderman

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.

APPENDIX G

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION; SURFACE SOIL SAMPLES (FORMER INCINERATOR AREA)

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SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
	Client Contact: Steve Clements	Date Reported: 01/12/07
	Client P.O.:	Date Completed: 01/12/07

WorkOrder: 0701171

January 12, 2007

Dear Steve:

Enclosed are:

1). the results of **9** analyzed samples from your **#01203087.02; Freisman Ranch project,**

2). a QC report for the above samples

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

4). a bill for analytical services.

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

Best regards,

Angela Rydelius, Lab Manager

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SCS Engineers	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/09/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/11/07

Metals*

Extraction Method: SW3050B Analytical Method: 6020A Work Order: 0701171

Lab ID	0701171-001A	0701171-002A	0701171-003A	0701171-004A	Reporting Limit for DF =1	
Client ID	SS-1	SS-2	SS-3	SS-4		
Matrix	Soil	Soil	Soil	Soil		
DF	1	1	1	1		
Extraction Type	TTLC	TTLC	TTLC	TTLC	S	W
Compound	**Concentration**				mg/Kg	µg/L
Arsenic	2.6	2.6	2.5	2.5	0.5	NA
Cadmium	ND	ND	ND	ND	0.25	NA
Chromium	41	26	29	26	0.5	NA
Lead	7.6	7.5	7.7	9.2	0.5	NA
Mercury	ND	0.053	ND	0.074	0.05	NA
Nickel	41	30	30	30	0.5	NA
Zinc	53	51	58	51	5.0	NA
Surrogate Recoveries (%)						
%SS:	99	96	93	91		
Comments						

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

J) analyte detected between reporting limits (RLs) and method detection limits (MDLs).

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery; n) results are reported on a dry weight basis; p) see attached narrative.

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SCS Engineers	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/09/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/11/07

Metals*

Extraction Method: SW3050B Analytical Method: 6020A Work Order: 0701171

Lab ID	0701171-005A	0701171-006A	0701171-007A	0701171-008A	Reporting Limit for DF =1	
Client ID	SS-5	SS-6	SS-7	SS-8		
Matrix	Soil	Soil	Soil	Soil		
DF	1	1	1	1		
Extraction Type	TTLC	TTLC	TTLC	TTLC	S	W
Compound	**Concentration**				mg/Kg	µg/L
Arsenic	2.7	3.4	3.0	3.1	0.5	NA
Cadmium	ND	ND	ND	ND	0.25	NA
Chromium	25	32	35	31	0.5	NA
Lead	7.0	7.3	12	14	0.5	NA
Mercury	ND	ND	0.053	0.054	0.05	NA
Nickel	28	33	35	32	0.5	NA
Zinc	37	44	51	48	5.0	NA
Surrogate Recoveries (%)						
%SS:	93	95	95	93		
Comments						

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

J) analyte detected between reporting limits (RLs) and method detection limits (MDLs).

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery; n) results are reported on a dry weight basis; p) see attached narrative.

McCampbell Analytical, Inc.
"When Quality Counts"

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

SCS Engineers	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/09/07
		Date Received: 01/09/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/09/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/11/07

Metals*

Extraction Method: SW3050B Analytical Method: 6020A Work Order: 0701171

					Reporting Limit for DF =1	
Lab ID	0701171-009A					
Client ID	SS-9					
Matrix	Soil					
DF	1					
Extraction Type	TTLC				S	W
Compound	**Concentration**				mg/Kg	µg/L
Arsenic	3.6				0.5	NA
Cadmium	ND				0.25	NA
Chromium	34				0.5	NA
Lead	8.2				0.5	NA
Mercury	0.082				0.05	NA
Nickel	35				0.5	NA
Zinc	48				5.0	NA
Surrogate Recoveries (%)						
%SS:	91					
Comments						

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

J) analyte detected between reporting limits (RLs) and method detection limits (MDLs).

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery; n) results are reported on a dry weight basis; p) see attached narrative.

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QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0701171

EPA Method 6020A **Extraction SW3050B** **BatchID: 25623** **Spiked Sample ID 0701152-043A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Arsenic	11	50	101	102	0.440	10	100	100	0	75 - 125	20	80 - 120	20
Cadmium	0.36	50	102	101	0.804	10	98.1	99.8	1.66	75 - 125	20	80 - 120	20
Chromium	72	50	89	88	0.431	10	97.1	102	4.55	75 - 125	20	80 - 120	20
Lead	27	50	103	102	0.751	10	99.7	101	1.19	75 - 125	20	80 - 120	20
Mercury	0.090	2.5	104	103	0.299	0.50	101	101	0	75 - 125	20	80 - 120	20
Nickel	83	50	94.1	95.1	0.383	10	97.5	101	3.89	75 - 125	20	80 - 120	20
Zinc	120	500	99.8	98.3	1.23	100	98.7	98.9	0.233	75 - 125	20	80 - 120	20
%SS:	104	250	103	101	2.00	250	97	99	2.45	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 25623 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0701171-001A	1/09/07	1/09/07	1/11/07 5:15 AM	0701171-002A	1/09/07	1/09/07	1/11/07 5:23 AM
0701171-003A	1/09/07	1/09/07	1/11/07 5:32 AM	0701171-004A	1/09/07	1/09/07	1/11/07 5:40 AM
0701171-005A	1/09/07	1/09/07	1/11/07 5:48 AM	0701171-006A	1/09/07	1/09/07	1/11/07 5:56 AM
0701171-007A	1/09/07	1/09/07	1/11/07 6:05 AM	0701171-008A	1/09/07	1/09/07	1/11/07 6:13 AM
0701171-009A	1/09/07	1/09/07	1/11/07 6:46 AM				

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

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

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

N/A = not applicable to this method.

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

SCS ENGINEERS Environmental Consultants

6601 Koll Center Parkway
Suite 140
Pleasanton, CA 94566

925 426-0080
FAX 925 426-0707
www.scsengineers.com

TOTAL NUMBER OF SAMPLES: 9

PAGE 1 OF 1

TURNAROUND TIME REQUIRED: Normal
___5-Day ___3-Day ___Immediate _____Other

PROJECT NUMBER: 01203087.02

PROJECT MANAGER: S. Clements

PROJECT NAME: Freisman Ranch

W.O. / S.O. #:

PROJECT LOCATION: 1600 Freisman Rd Livermore, CA

SAMPLER NAME AND SIGNATURE: Ted Sison

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: total Lead, Cadmium, Chromium, Nickel, Zinc, Arsenic, Mercury	LAB USE ONLY
	SS-1	soil	1-9-07	90z JAR	n/a		X	
	SS-2	↓	↓	↓	↓		X	
	SS-3						X	
	SS-4						X	
	SS-5						X	
	SS-6						X	
	SS-7						X	
	SS-8						X	
	SS-9	↓	↓	↓	↓		X	

ICE/t° 4.2 °C
GOOD CONDITION ✓ APPROPRIATE CONTAINERS ✓
HEAD SPACE ABSENT ___ PRESERVED IN LAB ___
DECHLORINATED IN LAB

PRESERVATION	VOAS	O&G	METALS	OTHER

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:	RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
	1-9-07	Sheli Snyderman	1/9/07				
COMPANY: SCS	TIME: 4:07	COMPANY:	TIME:	COMPANY:	TIME:	COMPANY:	TIME:

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0701171 **ClientID: SCSD**

☐ EDF ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

Report to:
Steve Clements
SCS Engineers
6601 Koll Center Pkwy, Ste 140
Pleasanton, CA 94566
Email: sclements@scseng.com
TEL: (925) 426-0080 FAX: (925) 426-0707
ProjectNo: #01203087.02; Freisman Ranch
PO:

Bill to:
Accounts Payable
SCS Engineers
6601 Koll Center Pkwy, Ste 140
Pleasanton, CA 94566

Requested TAT: **5 days**

Date Received: **01/09/2007**
Date Printed: **01/09/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0701171-001	SS-1	Soil	1/9/07	☐	A											
0701171-002	SS-2	Soil	1/9/07	☐	A											
0701171-003	SS-3	Soil	1/9/07	☐	A											
0701171-004	SS-4	Soil	1/9/07	☐	A											
0701171-005	SS-5	Soil	1/9/07	☐	A											
0701171-006	SS-6	Soil	1/9/07	☐	A											
0701171-007	SS-7	Soil	1/9/07	☐	A											
0701171-008	SS-8	Soil	1/9/07	☐	A											
0701171-009	SS-9	Soil	1/9/07	☐	A											

Test Legend:

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

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.

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SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/10/07
		Date Received: 01/10/07
	Client Contact: Steve Clements	Date Reported: 01/16/07
	Client P.O.:	Date Completed: 01/16/07

WorkOrder: 0701211

January 16, 2007

Dear Steve:

Enclosed are:

1). the results of **5** analyzed samples from your **#01203087.02; Freisman Ranch project,**

2). a QC report for the above samples

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

4). a bill for analytical services.

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

Best regards,

Angela Rydelius, Lab Manager

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

SCS Engineers	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/10/07
		Date Received: 01/10/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/10/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/12/07-01/13/07

Metals*

Extraction Method: SW3050B Analytical Method: 6020A Work Order: 0701211

Lab ID	0701211-001A	0701211-002A	0701211-003A	0701211-004A	Reporting Limit for DF =1	
Client ID	SS-10	SS-11	SS-12	SS-13		
Matrix	Soil	Soil	Soil	Soil		
DF	1	1	1	1		
Extraction Type	TTLC	TTLC	TTLC	TTLC	S	W
Compound	**Concentration**				mg/Kg	µg/L
Arsenic	2.5	9.6	4.6	5.7	0.5	NA
Cadmium	ND	0.30	0.38	ND	0.25	NA
Chromium	28	51	63	59	0.5	NA
Lead	8.2	49.7	65	15	0.5	NA
Mercury	ND	ND	0.062	0.060	0.05	NA
Nickel	30	62	57	86	0.5	NA
Zinc	54	120	190	83	5.0	NA
Surrogate Recoveries (%)						
%SS:	107	101	96	98		
Comments						

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

J) analyte detected between reporting limits (RLs) and method detection limits (MDLs).

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery; n) results are reported on a dry weight basis; p) see attached narrative.

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

SCS Engineers	Client Project ID: #01203087.02; Freisman Ranch	Date Sampled: 01/10/07
		Date Received: 01/10/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 01/10/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 01/12/07-01/13/07

Metals*

Extraction Method: SW3050B Analytical Method: 6020A Work Order: 0701211

Lab ID	0701211-005A				Reporting Limit for DF =1	
Client ID	SS-14					
Matrix	Soil					
DF	1					
Extraction Type	TTLC				S	W
Compound	**Concentration**				mg/Kg	µg/L
Arsenic	10				0.5	NA
Cadmium	0.73				0.25	NA
Chromium	79				0.5	NA
Lead	760				0.5	NA
Mercury	0.072				0.05	NA
Nickel	41				0.5	NA
Zinc	510				5.0	NA
Surrogate Recoveries (%)						
%SS:	99					
Comments						

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

J) analyte detected between reporting limits (RLs) and method detection limits (MDLs).

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery; n) results are reported on a dry weight basis; p) see attached narrative.

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QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0701211

EPA Method 6020A **Extraction SW3050B** **BatchID: 25663** **Spiked Sample ID 0701199-023A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Arsenic	7	50	106	99.5	5.77	10	106	107	0.748	75 - 125	20	80 - 120	20
Cadmium	ND	50	103	97.2	6.24	10	110	110	0	75 - 125	20	80 - 120	20
Chromium	41	50	102	97.5	2.48	10	107	110	2.21	75 - 125	20	80 - 120	20
Lead	23	50	109	103	3.87	10	107	109	1.57	75 - 125	20	80 - 120	20
Mercury	0.12	2.5	124	118	5.10	0.50	96	97	1.08	75 - 125	20	80 - 120	20
Nickel	35	50	102	98.1	2.35	10	101	103	2.06	75 - 125	20	80 - 120	20
Zinc	39	500	101	95	5.63	100	106	107	1.32	75 - 125	20	80 - 120	20
%SS:	107	250	112	114	1.60	250	112	113	1.49	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 25663 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0701211-001A	1/10/07	1/10/07	1/12/07 3:17 AM	0701211-002A	1/10/07	1/10/07	1/12/07 3:25 AM
0701211-003A	1/10/07	1/10/07	1/12/07 3:34 AM	0701211-004A	1/10/07	1/10/07	1/12/07 4:07 AM
0701211-005A	1/10/07	1/10/07	1/12/07 4:15 AM	0701211-005A	1/10/07	1/10/07	1/13/07 1:34 AM

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

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

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

N/A = not applicable to this method.

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

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Suite 140
Pleasanton, CA 94566

925 426-0080
FAX 925 426-0707
www.scsengineers.com

TOTAL NUMBER OF SAMPLES: 5

PAGE 1 OF 1

TURNAROUND TIME REQUIRED: Normal
___5-Day ___3-Day ___Immediate _____Other

PROJECT NUMBER: 01203087.02

PROJECT MANAGER: S. Clements

PROJECT NAME: Freisman Ranch

W.O. / S.O. #:

PROJECT LOCATION: 1600 Freisman Rd. Livermore, CA

SAMPLER NAME AND SIGNATURE: Ted Sison

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: total Lead, Cadmium, Chromium, Nickel, Zinc, arsenic, mercury	LAB USE ONLY
	SS-10	Soil	1-10-07	902 JAR	n/a		X	
	SS-11	↓	↓	↓	↓		X	
	SS-12						X	
	SS-13						X	
	SS-14						X	

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:	RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
COMPANY: SCS	TIME: 4:21	COMPANY:	TIME: 16:23	COMPANY: Enviroteeh	TIME: 18:06	COMPANY:	TIME:
	4:21		1/10/07		1-10-06		

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0701211 **ClientID: SCSD**

☐ EDF ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

Report to:
Steve Clements
SCS Engineers
6601 Koll Center Pkwy, Ste 140
Pleasanton, CA 94566
Email: sclements@scseng.com
TEL: (925) 426-0080 FAX: (925) 426-0707
ProjectNo: #01203087.02; Freisman Ranch
PO:

Bill to:
Accounts Payable
SCS Engineers
6601 Koll Center Pkwy, Ste 140
Pleasanton, CA 94566

Requested TAT: 5 days

Date Received: 01/10/2007
Date Printed: 01/10/2007

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0701211-001	SS-10	Soil	1/10/07	☐	A											
0701211-002	SS-11	Soil	1/10/07	☐	A											
0701211-003	SS-12	Soil	1/10/07	☐	A											
0701211-004	SS-13	Soil	1/10/07	☐	A											
0701211-005	SS-14	Soil	1/10/07	☐	A											

Test Legend:

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

Prepared by: Lisa Cavalier

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.