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SCS ENGINEERS

October 12, 2007
Project Number: 01203087.04

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: **Additional Groundwater Investigation Report**
Freisman Ranch Property
1600 Freisman Road
Livermore, California

Dear Mr. Wickham:

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

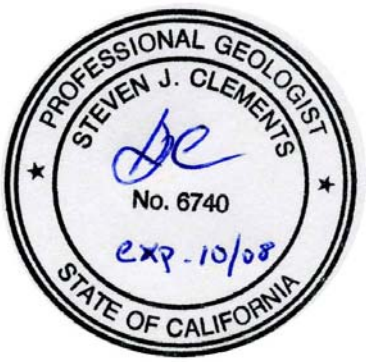
"We declare, under penalty of perjury, that the information and recommendations contained in the attached report are true and correct to the best of our knowledge."

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

Sincerely,

Ted Sison, R.E.A.
Project Scientist
SCS Engineers

Steve Clements, PG, REA
Project Manager
SCS Engineers



cc: Lynn Sagramoso – Children's Hospital
Tom Terrill – The Terrill Company

SCS ENGINEERS







Additional Groundwater Investigation Report

Freisman Ranch Property

1600 Freisman Road

Livermore, California

Prepared for:

Children's Hospital and Research Center Foundation
2201 Broadway Avenue, Suite 600
Oakland, California 94612
(510) 428-3119

Prepared by:

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6601 Koll Center Parkway, Suite 140
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October 12, 2007
File No. 01203087.04

Additional Groundwater Investigation Report
Freisman Ranch Property
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Prepared for:

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This Additional Groundwater Investigation Report for the Freisman Ranch Property located at 1600 Freisman Road, Livermore, California, dated October 12, 2007 has been prepared and reviewed by the following:

Ted Sison R.E.A.
Project Scientist

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

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LIMITATIONS/DISCLAIMER

This Additional Groundwater Investigation Report has been prepared on the behalf of the Children's Hospital and Research Center Foundation (Children's Hospital) with specific application to the Freisman Ranch Property located at 1600 Freisman Road, Livermore, California. This report has been prepared in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, expressed or implied, is made as to the professional opinions presented herein. Third parties use this report at their own risk.

Changes in site use and conditions may occur due to manmade changes or variations in rainfall, temperature, water usage, or other factors. Additional information which was not available to the consultant at the time this report was prepared or changes which may occur on the site or in the surrounding area may result in modification to the site that would impact the this report. This report is not a legal opinion.

1 INTRODUCTION

This Report has been prepared by SCS Engineers (SCS) on behalf of Children's Hospital to summarize the additional groundwater investigation at the Freisman Ranch Property located at 1600 Freisman Road, Livermore, California (the "Property"). Figure 1 is the Site Location Map and Figure 2 is the Site Plan.

OBJECTIVES AND SCOPE OF WORK

The additional groundwater investigation described in this report consisted of the following tasks:

1. Monitoring of all existing onsite groundwater monitoring wells using low flow sampling protocols.

2. Re-sampling wells *KMW-2, KMW-5, KMW-6, KMW-7,* and *KMW-8* using three purge volume sampling protocols.

3. Deeper groundwater investigation using CPT and Hydropunch methods to evaluate the vertical extent of petroleum hydrocarbon-impacted groundwater beneath the Property.

This additional investigation was conducted at the request of Alameda County Environmental Health (ACEH) in accordance the recommendations provided in the Additional Site Investigation Report prepared by SCS (March 7, 2007) and in accordance with the approved Workplan (SCS, June 6, 2007).

A geophysical survey to locate buried objects potentially in the vicinity of the former heating oil AST (if any) was originally included as part of the approved Workplan. However, following further site reconnaissance the geophysical survey was canceled due to the presence of numerous surface features (e.g., buildings, foundations, fences, miscellaneous metallic debris, etc.) that would disrupt the geophysical survey.

BACKGROUND AND SITE HISTORY

The Property was first developed in the 1910's 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.).

Extensive environmental assessment/investigation has occurred at the Property since 1997. These assessments/investigations have included a Phase I Environmental Assessment (Kleinfelder, July 8, 1997), soil and groundwater investigation including the installation and monitoring of eight groundwater monitoring wells (Kleinfelder, October 17, 1997 and February 17, 1999 and SCS, March 7, 2007), investigation/removal of a small incinerator and associated soil (SCS, November 21, 2003, October 19, 2006, March 7, 2007, and October 5, 2007), additional soil and groundwater investigation including installation and sampling of three temporary wells (SCS, March 7, 2007), and two soil vapor surveys (SCS, November 21, 2003 and March 7, 2007).

Based on these assessments and investigations, petroleum hydrocarbon-impacted groundwater and soil was identified in the central developed portion of the Property. The apparent source of petroleum hydrocarbon contamination was the former heating oil AST used to fuel two boilers that were located in the northern portion of the main dairy building. Heating oil is typically composed of diesel range and gasoline range hydrocarbons (Bruya, 1993).

In addition, during a May 10, 2006 site reconnaissance SCS interviewed the caretaker of the Property, Mr. Mike Schofield. Mr. Schofield is a member of the extended Freisman family and has firsthand knowledge of the Property's history. Mr. Schofield indicated that a small (approximately 300 gallon) underground gasoline storage tank (UST) was previously located in the vicinity of the former heating oil AST. Mr. Schofield indicated that, to the best of his knowledge, the gasoline UST was removed sometime in the 1970's. This suspected former UST may be a source of gasoline range hydrocarbons detected in groundwater beneath the Property.

In an effort to remove remaining sources of petroleum hydrocarbon contamination at the Property SCS removed the two boilers, the metal shed that historically housed the former heating oil AST, associated underground fuel piping, and impacted soil in August and September 2003 (SCS, November 21, 2003 and October 19, 2006). The soil and debris were properly disposed of off-site and the excavations were subsequently backfilled.

PREVIOUS GROUNDWATER INVESTIGATIONS

Six groundwater monitoring wells (*KMW-1* through *KMW-6*) were installed at the Property in 1997, and a quarterly groundwater sampling program was initiated. Two additional wells (*KMW-7* and *KMW-8*) were installed at the Property in 1999. Regular groundwater monitoring was conducted at the Property until the end of 2003. Results of this monitoring suggest that a plume of petroleum hydrocarbon-impacted groundwater is present in the vicinity and downgradient of the former boilers and heating oil system (i.e., near wells *KMW-6* and *KMW-7)*. Historic groundwater concentration data is presented in Table 3.

In January 2006, the wells were sampled by H_2OGEOL of Livermore, California and in January/February 2006 by Consolidated Engineering of San Ramon, California. Groundwater samples collected by H_2OGEOL detected chemicals of concern (COCs) in three previously "clean" wells (*KMW-2*, *KMW-5*, and *KMW-8*). SCS sampled all the wells again in January 2007 and no COCs were detected in wells *KMW-2*, *KMW-5*, and *KMW-8* (SCS, March 7, 2007). Due to the apparent anomalous nature of the samples collected by H_2OGEOL SCS recommended conducting another round of groundwater monitoring using low flow purging methods for all wells followed by re-sampling of wells *KMW-2*, *KMW-5*, *KMW-6*, *KMW-7*, and *KMW-8* using the three well volume purge protocol in an attempt to more fully recreate sampling procedures used by H_2OGEOL.

In January 2007 SCS conducted a soil vapor survey that consisted of the collection of 22 soil vapor samples (*SV-1* through *SV-22*) from depths of approximately 5 feet below ground surface (bgs) at various locations across the Property including the area of known impacted groundwater. Volatile Organic Compounds (VOCs) were not detected in soil vapor samples at concentrations of concern. 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.

2 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 by 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 use is currently undetermined; as such residential ESLs are appropriate for the site. Chemicals detected at concentrations below ESLs are generally assumed to not pose a significant threat to human health or the environment.

3 GROUNDWATER MONITORING – APRIL 2007

Site groundwater monitoring wells were resurveyed on March 26, 2007 and groundwater monitoring was performed by SCS on April 18 and 19, 2007. The locations of onsite groundwater monitoring wells (*KMW-1* through *KMW-8*) are shown on Figure 2. A description of the resurveying, sampling procedures, and summary of analytical results are provided below:

WELL RESURVEYING & GEOTRACKER UPLOAD

On March 26, 2007 Morrow Surveying of West Sacramento, California conducted surveying activities on the Property. All site groundwater monitoring wells were surveyed. This was done so groundwater gradients could continue to be calculated as accurately as possible and so the data would be compatible with Geotracker requirements. The new survey data was incorporated into the site maps and the groundwater gradient calculations included in this report. SCS is currently setting up the upload link to Geotracker after which all required information and documents will be uploaded.

WATER LEVEL MEASUREMENTS

Prior to purging and sampling, static water level measurements were taken in all the wells using an electric water level meter. Readings were taken to the nearest 0.01-foot from a known reference point on the well casing. Groundwater was measured in the wells at depths ranging from 12.50 and 14.60 feet bgs.

Groundwater elevation data from April 18, 2007, is summarized on Table 1. The table also includes historical elevation data. 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 April 18, 2007 was northwesterly with a gradient of approximately 0.007 feet/foot. This is generally consistent with past monitoring events.

DISSOLVED OXYGEN MEASUREMENTS

Prior to collection of water level measurements, SCS used a YSI Model 55 down-hole dissolved oxygen (DO) meter to obtain DO readings for each well. DO readings ranged from 0.70 mg/L in well *KMW-7* to 1.98 mg/L in *KMW-4*. DO readings are summarized in Table 2. The lowest DO readings were obtained from wells *KMW-6* (0.82 mg/L) and *KMW-7* (0.70 mg/L), which are located

within the known plume of impacted groundwater. DO readings in the remaining site wells were higher (1.14 mg/L to 1.98 mg/L). The relatively lower DO readings observed in wells *KMW-6* and *KMW-7* suggest that biodegradation is occurring within the known plume of impacted groundwater.

GROUNDWATER PURGING

Low Flow Methodology

All site monitoring wells were purged and sampled on April 18, 2007 using a peristaltic pump and low flow methodology. Dedicated 21-foot long sections of 0.25-inch inner diameter polyethylene tubing previously installed in each well 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 monitored using a water level meter with a draw-down sensor to ensure that well water draw-down within each well was less than four inches during purging. If well water ever fell more than 4 inches during purging then purging was stopped until the water level returned. Field parameter measurements including pH, temperature, and electrical conductivity (EC), readings were measured using a Horiba U-22 water quality meter. Samples were collected upon stabilization of field parameters. Notations were also made as to the odor and color of the water being purged. Field parameters are summarized in Table 2. Samples were collected from each well immediately following purging 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 Public Health (DPH) Environmental Laboratory Accreditation Program (ELAP) for the specific analyses performed.

Three Casing Volume Purging

On April 19, 2007 SCS returned and re-purged and re-sampled wells *KMW-2*, *KMW-5*, *KMW-6*, *KMW-7*, and *KMW-8* using a submersible pump and three casing volume purging methodology. A 12-volt submersible "purger" pump fitted with 0.5-inch ID plastic tubing was used to purge and sample the wells. Dedicated tubing was used for each well. Well *KMW-6* was the final well to be purged and sampled, however during purging the pump failed and could not be re-started, therefore, purging of the final 5 gallons of groundwater and sampling was conducted using a new disposable polyethylene bailer. During purging field parameters were measured with the Horiba. When the required purge volumes from each well had been reached and when field parameters had stabilized groundwater samples were collected. Samples were collected from either the pump or the bailer and were handled as described above for the low flow samples.

All non-dedicated groundwater monitoring equipment, (i.e., water level meters, measuring cup, purging pump, 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. Also, between each well the internal silicon tubing used by the peristaltic pump was changed out to reduce the chance of cross contamination. All purge water and decontamination water was contained in two labeled 55 gallon drums which were left on-site.

LABORATORY ANALYSIS AND ANALYTICAL RESULTS

All samples were delivered to McCampbell the day they were collected using standard chain-of-custody procedures.

Quality control trip blanks (QCTBs) were stored with, shipped to the laboratory, and analyzed along with the other samples as a check for cross contamination. Trace concentrations of toluene were detected in the QCTB that accompanied the samples collected on April 18, 2007. Toluene was not detected in any of the samples collected on April 18, 2007; therefore it is assumed the toluene impacted the QCTB before it was stored with the samples. Toluene and carbon disulfide were detected at low concentrations in the QCTB that accompanied the samples collected on April 19, 2007. Neither toluene nor carbon disulfide were detected in any of the samples collected on April 19, 2007, therefore it is assumed the QCTB was impacted before in was stored with the samples.

Both sets of groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), TPH as diesel fuel (TPHd), and TPH as stoddard solvent (TPHss) using EPA Method 8015C. Samples were also analyzed for VOCs including benzene, ethylbenzene, toluene, and xylenes (BTEX), methyl tert butyl ether (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 for the samples collected using low flow methodology are provided in Appendix A. The analytical report and chain-of-custody documentation for the samples collected using three casing volume purging are provided in Appendix B.

TPHg

TPHg was detected in (low flow) groundwater samples *KMW-6* and *KMW-7* at concentrations of 86 micrograms per liter (ug/L) and 170 ug/L respectively. TPHg was detected in (3 purge volume) groundwater samples *KMW-6* and *KMW-7* at concentrations of 2,700 and 720 ug/L, respectively. Three of the four TPHg detections in the groundwater samples exceed the 100 ug/L ESL established for TPHg in groundwater that is a current or potential source of drinking water. However, these concentrations are within the range historically detected in these wells. TPHg was not detected in groundwater samples collected from the remaining site wells.

TPHss

TPHss was only detected in (low flow) groundwater sample *KMW-7* at a concentration of 96 ug/L. TPHss was detected in (3 purge volume) groundwater samples *KMW-6* and *KMW-7* at concentrations of 890 and 490 ug/L, respectively. The TPHss detections in the "3 purge volume" groundwater samples exceed the 100 ug/L ESL established for TPHss range hydrocarbons in groundwater that is a current or potential source of drinking water. TPHss was not detected in groundwater samples collected from the remaining site wells.

TPHd

TPHd was not detected in any of groundwater samples using low flow methodology. TPHd was detected in (3 purge volume) groundwater samples *KMW-6* and *KMW-7* at concentrations of 1,100 and 290 ug/L, respectively. The TPHd detections in the "3 purge volume" groundwater samples

exceed the 100 ug/L ESL established for TPHd in groundwater that is a current or potential source of drinking water. However, these concentrations are within the range historically detected in these wells. TPHd was not detected in groundwater samples collected from the remaining site wells.

VOCs

Benzene was only detected in (low flow) groundwater sample *KMW-7* at a concentration of 0.6 ug/L. Benzene was detected in (3 purge volume) groundwater samples *KMW-6* and *KMW-7* at concentrations of 35 and 3.3 ug/L, respectively. The benzene detections in the "3 purge volume" groundwater samples exceed the 1.0 ug/L ESL established for benzene in groundwater that is a current or potential source of drinking water. However, these concentrations are within the range historically detected in these wells. Benzene was not detected in groundwater samples collected from the remaining site wells.

Toluene was not detected in groundwater samples collected during this monitoring event.

Ethylbenzene was not detected in any (low flow) groundwater samples. Ethylbenzene was detected in (3 purge volume) groundwater samples *KMW-6* and *KMW-7* at concentrations of 52 and 12 ug/L, respectively. The ethylbenzene detection in well *KMW-7* exceeds the 30 ug/L ESL established for ethylbenzene in groundwater that is a current or potential source of drinking water. However, this concentration is within the range historically detected in well *KMW-7*. Ethylbenzene was not detected in groundwater samples collected from the remaining site wells.

Xylenes were detected in (low flow) groundwater sample *KMW-7* at a concentration of 1.2 ug/L. Xylenes were detected in (3 purge volume) groundwater samples *KMW-6* and *KMW-7* at concentrations of 23 and 33 ug/L, respectively. The xylenes detections in the "3 purge volume" groundwater samples exceed the 20 ug/L ESL established for xylenes in groundwater that is a current or potential source of drinking water. However, these concentrations are within the range historically detected in these wells. Xylenes were not detected in groundwater samples collected from the remaining site wells.

Naphthalene was detected in (low flow) groundwater sample *KMW-6* at a concentration of 0.59 ug/L. Naphthalene was detected in (3 purge volume) groundwater samples *KMW-6* and *KMW-7* at concentrations of 110 and 11 ug/L, respectively. The naphthalene detection in well *KMW-6* exceeds the 17 ug/L ESL established for naphthalene in groundwater that is a current or potential source of drinking water. However, this concentration is within the range historically detected in well *KMW-6*. Naphthalene was not detected in groundwater samples collected from the remaining site wells.

1,2,4-Trimethylbenzene was detected in (low flow) groundwater sample *KMW-7* at a concentration of 1.1 ug/L. 1,2,4-Trimethylbenzene was detected in (3 purge volume) groundwater sample *KMW-7* at a concentration of 32 ug/L. ESLs have not been established for 1,2,4-Trimethylbenzene. 1,2,4-Trimethylbenzene was not detected in groundwater samples collected from the remaining site wells.

n-butyl benzene was not detected in any (low flow) groundwater samples. n-butyl benzene was detected in (3 purge volume**)** groundwater samples *KMW-6* and *KMW-7* at concentrations of 21 and 1.8 ug/L, respectively. ESLs have not been established for n-butyl benzene. n-butyl benzene was not detected in groundwater samples collected from the remaining site wells.

Isopropyl benzene was not detected in any (low flow) groundwater samples. Isopropyl benzene was detected in (3 purge volume**)** groundwater samples *KMW-6* and *KMW-7* at concentrations of 25 and 3.6 ug/L, respectively. ESLs have not been established for isopropyl benzene. Isopropyl benzene was not detected in groundwater samples collected from the remaining site wells.

MTBE and remaining EPA Method 8260B compounds were not detected in any of the groundwater samples collected during this monitoring event.

Lead

Dissolved lead was not detected in groundwater samples collected during this monitoring event.

4 DEEPER GROUNDWATER INVESTIGATION

To date, groundwater investigation activities at the Property have focused on the first (shallow) groundwater encountered at the Property (site groundwater monitoring wells are screened from approximately 9 to 24 feet bgs). On August 23, 2006 and March 28, 2007, ACEH issued letters formally requesting that the vertical extent of petroleum hydrocarbon-impacted groundwater be assessed prior to evaluation of site closure.

PRE-INVESTIGATION ACTIVITIES

SCS obtained a drilling permit from the Alameda County Zone 7 Water Agency Zone 7 prior to beginning drilling activities. A copy of the drilling permit (Permit Number 27113) is included as Attachment A.

Underground Service Alert was notified at least 48 hours prior to the subsurface investigation as required by law. In addition, SCS contracted Cruz Brothers Locators of Scotts Valley, California to conduct utility survey of the investigation area on July 18, 2007 as an additional check for underground utilities.

Based on the presence of overhead power lines, the northernmost deeper sampling location (*PH-2*) was moved approximately 35 feet north of its originally proposed location (SCS, June 6, 2007).

CPT BORINGS

Precision Sampling, Inc. of Richmond, California (Precision) conducted Cone Penetrometer Test (CPT) activities on August 21 through 23, 2007. All work was done under the direction of SCS. Precision used their 25-30 Ton CP-2 rig to conduct the CPTs at three locations (*PH-1*, *PH-2*, and *PH-3*) as shown in Figure 4.

The sampling locations were chosen to provide a transect perpendicular to the known plume of petroleum hydrocarbon-impacted groundwater beneath the Property in accordance with ACEH requests. The goal of the CPTs was to identify/classify soil types, water bearing zones, and potential confining layers prior to groundwater sampling. The three CPTs were each pushed to depths of approximately 85 feet bgs. Appendix B includes a detailed description of the CPT process, background CPT information, and the three CPT logs. Upon completion, each CPT borehole was tremie grouted to the surface with Portland cement grout.

GROUNDWATER SAMPLES

CPT data was reviewed and interpreted to locate potential water bearing zones to target for the collection of soil and groundwater samples. One distinct additional water bearing zone was identified at each CPT location below the known shallow water zone. The depth of the deeper water bearing zone varied in each boring, but were generally between 50 and 85 feet bgs. Following identification of our target sampling zones Precision used the CPT rig to advance a Hydropunch-type sampler to each desired sampling depth.

Groundwater samples were collected via a Hydropunch-type sampler. This consisted of a 5 foot long section of 0.5" diameter, 0.010" factory slotted PVC well pipe attached to a dedicated steel drive point. The screen was covered with a metal sleeve, attached to the drive rod, and driven into the ground. Upon reaching the desired sample depth the drive rod and metal sleeve were retracted up to four feet exposing the well screen. A dedicated disposable PVC bailer was then lowered to groundwater through the drive casing to collect the groundwater sample. After sample collection was complete the drive rods were removed from the borehole and decontaminated using a steam pressure washer. If a deeper groundwater sample was desired then the process was repeated. At boring *PH-3* what appeared to be a water bearing zone at 63 feet was identified. This depth was also consistent with the depth of already sampled water bearing zones in *PH-1* and *PH-2*. Sample collection was attempted, but water was not encountered. Therefore it was necessary to continue pushing to 85 feet where a more distinct water bearing zone was located and sampled.

Upon collection, 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 McCampbell for analysis. Groundwater samples were tracked from the point of collection through the laboratory using proper chain-of-custody protocol. A QCTB accompanied the groundwater samples in the cooler and was analyzed for VOCs along with the samples as a check for cross contamination from any outside sources between the field and the lab. During this investigation no contaminants were detected in any of QCTBs.

Analytical Results and Interpretation

Groundwater samples were analyzed for TPHg, TPHd (with silica gel cleanup), and TPHss using EPA Method 8015C. Groundwater samples were also analyzed for VOCs including BTEX, MTBE, 1,2-dichloroethane, and EDB using EPA Method 8260B, and for dissolved lead using EPA Method 6010C. Analytical results are summarized below and in Table 4. The analytical report and chain-of-custody documentation are provided in Appendix E.

- **TPHg**, **TPHd, and TPHss** were detected in groundwater sample *PH-1, 24'* at concentrations of 2,200 ug/L, 1,500 ug/L, and 1,000 ug/L, respectively. These concentrations exceed ESLs established for groundwater that is a current or potential source of drinking water, but were collected from within the known plume of impacted groundwater and are within the range of concentrations historically detected at the Property. TPHg, TPHd, and TPHss were not detected in groundwater samples collected from other locations (*PH-2 & PH-3*) or greater depths (51 to 85 feet bgs).

- **VOC's** including benzene, ethylbenzene, xylenes, and naphthalene were detected in groundwater sample *PH-1, 24'* at concentrations of 5.1 ug/L, 36 ug/L, 23 ug/L, and 38 ug/L, respectively. These concentrations exceed ESLs established for groundwater that is a current or potential source of drinking water, but were collected from within the known plume of impacted groundwater and are within the range of concentrations historically detected at the Property. Other VOCs detected in *PH-1, 24'* included: n-butyl benzene (13 ug/L), sec-butyl benzene (6.1 ug/L), isopropyl benzene (24 ug/L), n-propylbenzene (63 ug/L), 1,2,4-trimethylbenzene (110 ug/L), and 1,3,5-trimethylbenzene (30 ug/L). ESLs have not been established for these compounds.

  The only VOCs detected in the remaining groundwater samples were 0.5 ug/L of 1,2-DCA in *PH-3, 23'*, and 0.61 ug/L of ethylbenzene and 0.57 ug/L of 1,2,4-trimethylbenzene in sample *PH-3, 85'*. These concentrations do not exceed ESLs established for groundwater that is a current or potential source of drinking water. The detection of ethylbenzene (0.61 ug/L) and 1,2,4-trimethylbenzene (0.57 µg/L) in the deeper groundwater sample collected at location *PH-3* appears to be anomalous and may be due cross contamination associated with sampling through impacted soil at shallower depths. Both ethylbenzene and 1,2,4-trimethylbenzene were detected in the shallower soil sample (17 feet bgs) collected at location *PH-3*, but were not detected in the deeper soil sample (78 feet bgs) collected at location *PH-3*.

- **Dissolved lead** was detected in groundwater sample *PH-1, 24* at a concentration of 1.5 ug/L and in groundwater sample *PH-2, 29'* at a concentration of 2.2 ug/L. These concentrations are below the 2.5 µg/L ESL established for lead in groundwater that is a current or potential source of drinking water. Dissolved lead was not detected in groundwater samples collected from location *PH-3* or from groundwater samples collected at greater depths (51 to 85 feet bgs).

SOIL SAMPLES

Precision used the CPT rig to advance a soil sampler to each desired sampling depth. Targeted soil sampling depths were just above the depth where groundwater samples were collected (capillary fringe). The soil sampler consisted of a 2-inch by 24-inch core barrel sampler with an acetate sampling sleeve placed inside. Soil samples were collected by driving a blank rod to the desired sampling depth. The blank rod was then pulled out of the borehole and the sampler was attached to the end of the rod. The soil sampler was then re-driven to the desired sampling depth. At depth, the sampler was then pushed an additional 24 inches to collect the soil core. The sample was brought to the surface and the acetate sleeve containing the sample was removed from the core barrel. The soil was then packed into a laboratory supplied glass sample jar and sealed with a tight fitting lid. After sample collection the blank rod was reinstalled in the borehole and pushed to the next target depth for the second soil sample. At this depth the sampling procedure was repeated. All drill tooling was decontaminated before use and between sampling using a steam pressure washer.

Following collection soil samples were labeled, logged, and placed into a chilled cooler for later transport to McCampbell for analysis. All samples were handled using standard chain-of-custody procedures.

Analytical Results and Interpretation

Soil samples were analyzed for TPHg, TPHd, and TPHss using EPA Method 8015C, VOCs using EPA Method 8260B, and total lead using EPA Method 6010C. Analytical results are summarized below and in Table 5. The analytical report and chain-of-custody documentation are provided in Appendix E.

- **TPHg**, **TPHd, and TPHss** were detected in shallow zone soil sample *PH-1, 19'* at concentrations of 990, 420, and 360 milligrams per kilogram (mg/kg), respectively and in shallow zone soil sample *PH-3, 17'* at concentrations of 120, 44, and 20 mg/kg, respectively. The TPHg concentrations detected at both locations and the TPHd and TPHss concentrations detected at location *PH-1* exceed residential ESLs established for sites located above groundwater that is a current or potential source of drinking water. However, these samples were collected from within the known plume of impacted groundwater. TPHg, TPHd, and TPHss were not detected in shallow zone soil samples collected from location *PH-2* or from deeper zone soil samples.

- **VOC's** were only detected in shallow zone soil samples *PH-1, 19'* and *PH-3, 17'*. VOCs detected in soil sample *PH-1, 19'* included: n-butyl benzene (8 mg/kg), sec-butyl benzene (1.4 mg/kg), ethylbenzene (4.9 mg/kg), isopropyl benzene (1.8 mg/kg), naphthalene (3.5 mg/kg), n-propylbenzene (7.2 mg/kg), 1,2,4-trimethylbenzene (12 mg/kg), and 1,3,5-trimethylbenzene (30 mg/kg). The ethylbenzene and naphthalene concentrations detected in soil sample *PH-1,19'* exceed their respective residential ESLs established for sites located above groundwater that is a current or potential source of drinking water. However, this sample was collected from within the known plume of impacted groundwater. ESLs have not been established for n-Butyl benzene, sec-Butyl benzene, isopropyl benzene, n-propylbenzene, 1,2,4-trimethylbenzene, or 1,3,5-trimethylbenzene.

  VOCs detected in soil sample *PH-3, 17'* included MEK (0.67 mg/kg), n-Butyl benzene (0.65 mg/kg), sec-Butyl benzene (0.12 mg/kg), ethylbenzene (0.75 mg/kg), isopropyl benzene (0.16 mg/kg), naphthalene (0.30 mg/kg), n-propylbenzene (0.66 mg/kg), 1,2,4-trimethylbenzene (2.3 mg/kg), 1,3,5-trimethylbenzene (0.87 mg/kg), and xylenes (0.88 mg/kg). These MEK, ethylbenzene, and naphthalene concentrations do not exceed residential ESLs. VOCs were not detected in deeper zone soil samples.

- **Total lead** was detected in all soil samples at concentrations ranging from 5.5 mg/kg to 8.1 mg/kg. These concentrations are well below the 750 mg/kg residential ESL established for lead in soil below 3 meters (approximately 10 feet).

INVESTIGATION DERIVED WASTES

Two 55-gallon drums of decontamination water were produced during this investigation and were sealed, labeled, and left on site.

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Groundwater Monitoring Summary

Based on groundwater monitoring activities conducted in April 2007, SCS provides the following summary and conclusions:

- Constituents of concern (COCs) were only detected in groundwater samples collected from monitoring wells *KMW-6* and *KMW-7*. This is consistent with historic groundwater monitoring data from the Property. Based on this information, H_2OGEOL's January 2006 detections of COCs in groundwater samples collected from wells *KMW-2*, *KMW-5*, and *KMW-8* (including 1.6 µg/L MTBE in well *KMW-2*) appear to be anomalous.

- Higher concentrations of COCs were detected in the groundwater samples collected using the 3 casing volume purge method (compared to low flow purging methods). For example, TPHg was detected in well *KMW-6* at a concentration of 86 µg/L using low flow purging methods and 2,700 µg/L using 3 casing volume purge methods. However, the concentrations detected using 3 casing volume purge methods are within the range historically detected at the Property and, in general, concentrations of COCs appear to have decreased since monitoring began in 1997.

- TPHg (86 to 2,700 µg/L), TPHss (96 to 890 µg/L), TPHd (290 to 1,100 µg/L) benzene (0.6 to 35 µg/L), ethylbenzene (12 to 52 µg/L), xylenes (1.2 to 23 µg/L), and naphthalene (0.59 to 110 µg/L) were the only COCs detected in the groundwater samples at concentrations exceeding ESLs. Other COCs detected include: n-butylbenzene (1.8 to 21 µg/L), isopropylbenzene (3.6 to 25 µg/L), n-propylbenzene (7.7 to 86 µg/L), and 1,2,4-trimethylbenzene (1.1 to 32 µg/L), however, ESLs have not been established for these compounds.

- DO readings obtained during this monitoring event suggest that biodegradation is occurring within the known plume of impacted groundwater (wells *KMW-6 and KMW-7*).

- The approximate groundwater flow direction beneath the Property on April 18, 2007 was northwesterly with a gradient of approximately 0.007 feet/foot. This is generally consistent with past monitoring events.

Deeper Groundwater Investigation Summary

Based on Deeper Groundwater Investigation conducted in August 2007, SCS provides the following summary and conclusions:

- With the exceptions noted below, COCs were not detected in deeper groundwater samples (51 to 85 feet bgs) collected during this investigation. As previously indicated, the detections of ethylbenzene (0.61 ug/L) and 1,2,4-trimethylbenzene (0.57 µg/L) in the deeper groundwater sample collected at location *PH-3* may be due cross contamination associated with sampling through impacted soil at a shallower depth (both of these compounds were detected in the soil sample collected at 17 feet bgs at location *PH-3)*. COCs detected in shallower soil samples (17 and 19 feet bgs) are generally consistent with past analytical results.

- COCs were not detected in deeper soil samples (48 to 78 feet bgs) collected during this investigation. COCs detected in shallower soil samples (17 and 19 feet bgs) are generally consistent with past analytical results and were collected from within the known plume of impacted groundwater.

Recommendations

Based on the following multiple lines of evidence, SCS recommends regulatory closure for the Freisman Ranch Property:

- **Source Removal –** The apparent main source of petroleum hydrocarbon contamination at the Property was a former heating oil AST, two boilers, and associated underground piping. The heating oil AST was removed many years ago and the boilers, piping, and associated impacted soil were removed by SCS in 2003. In addition, according to Mr. Mike Schofield, the Property caretaker and member of the extended Freisman family, a small (approximately 300 gallon) gasoline UST previously located in the vicinity of the former heating oil AST was removed sometime in the 1970's.

- **Lateral Migration of Impacted Groundwater** - Based on the results of this investigation and previous data, the lateral extent of impacted groundwater beneath the Property appears to be limited to the central dairy portion of the Property (vicinity and south of wells *KMW-6* and *KMW-7)*. The lack of detections of COCs in perimeter monitoring wells *KMW-2*, *KMW-3*, *KMW*-4, *KMW-5*, and *KMW-8* suggests that impacted groundwater is not migrating off-site.

- **Vertical Migration of Impacted Groundwater** - Based on the results of this investigation, deeper groundwater beneath the Property does not appear to be significantly impacted.

- **Natural Attenuation** – In general, concentrations of COCs in groundwater beneath the Property have decreased since monitoring began in 1997. This is supported by DO readings obtained during this monitoring even, which suggest that biodegradation is occurring within the plume of impacted groundwater.

- **Vapor Intrusion** - VOCs were not detected in soil vapor samples collected in January 2007 at concentrations exceeding residential ESLs (SCS, March 7, 2007). 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.

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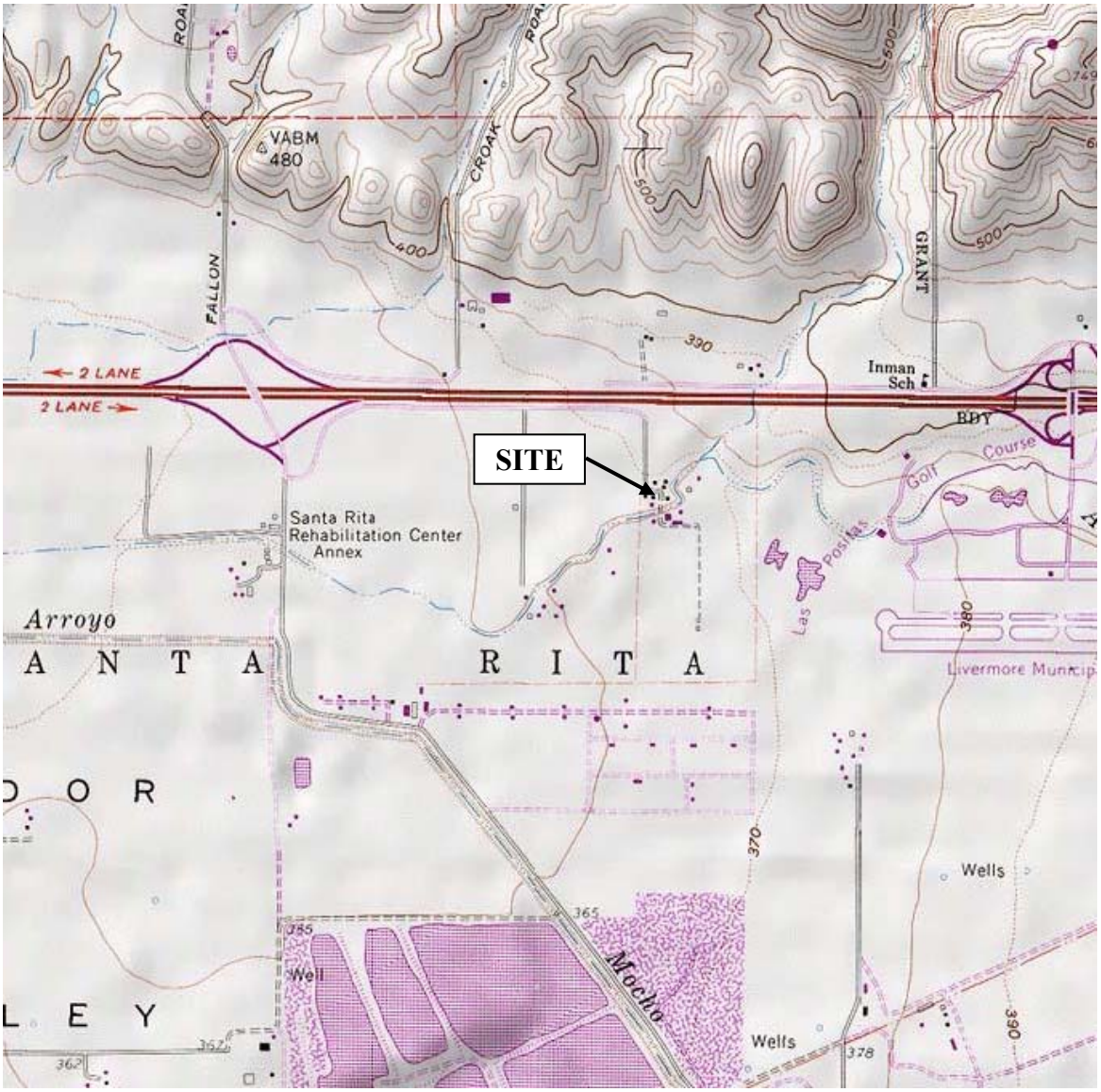
FIGURES



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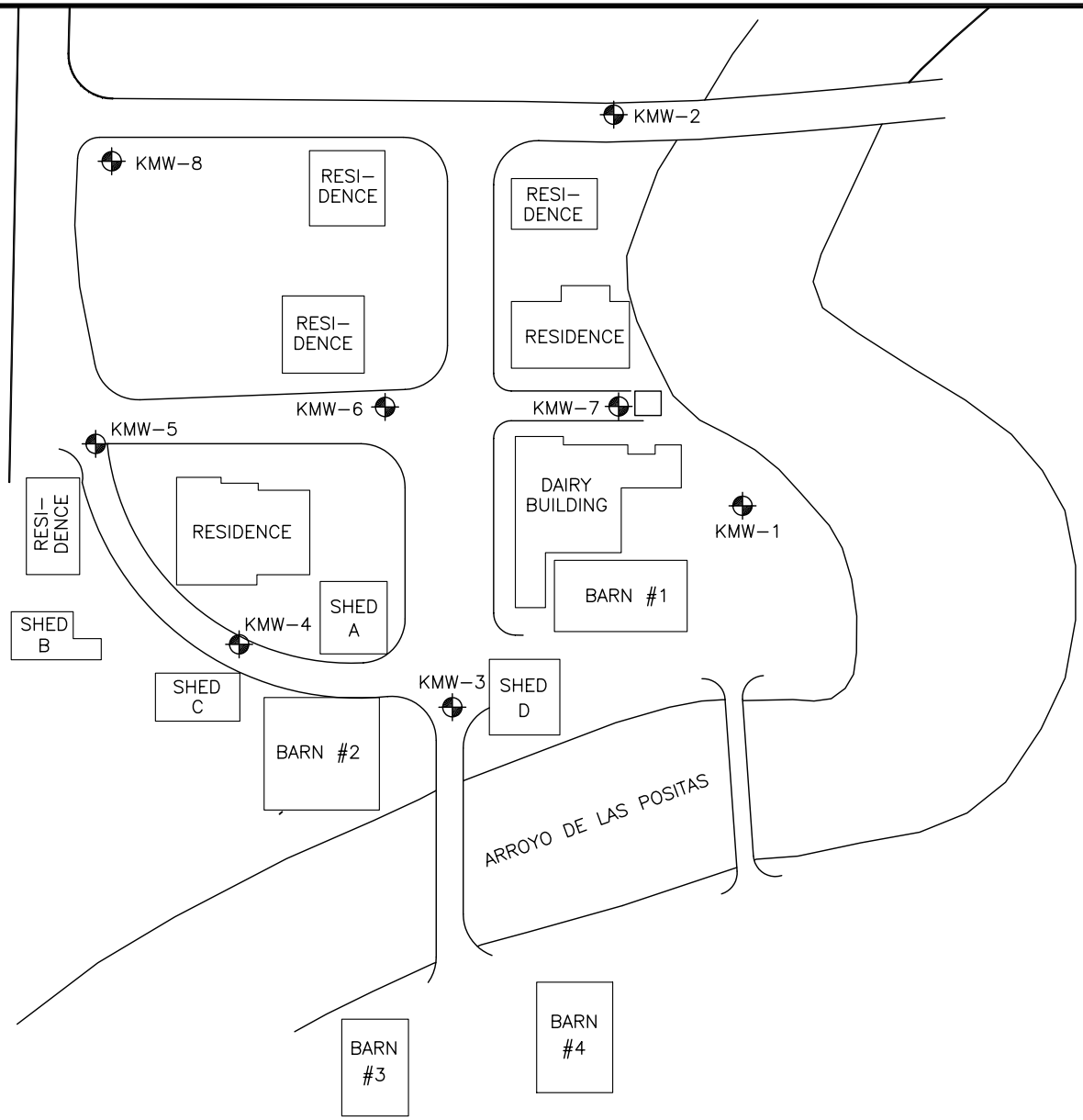
SOURCE: UNITED STATES GEOLOGICAL SURVEY *LIVERMORE QUADRANGLE, CALIFORNIA 7.5 MINUTE SERIES (TOPOGRAPHIC)* MAP. OBTAINED FROM THE 2000 NATIONAL GEOGRAPHIC TOPO SOFTWARE..

SCS ENGINEERS 6601 Koll Center Pkwy, Ste. 140 Pleasanton, CA 94566 (925) 426-0080		
PROJECT NO: 01203087.04		
DESIGNED BY: TMS	SCALE: AS SHOWN	REVIEWED BY: SJC
DRAWN BY: TMS	DATE: 10/07	

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

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6601 KOLL CENTER PKWY, SUITE 140
PLEASANTON, CALIFORNIA 94566
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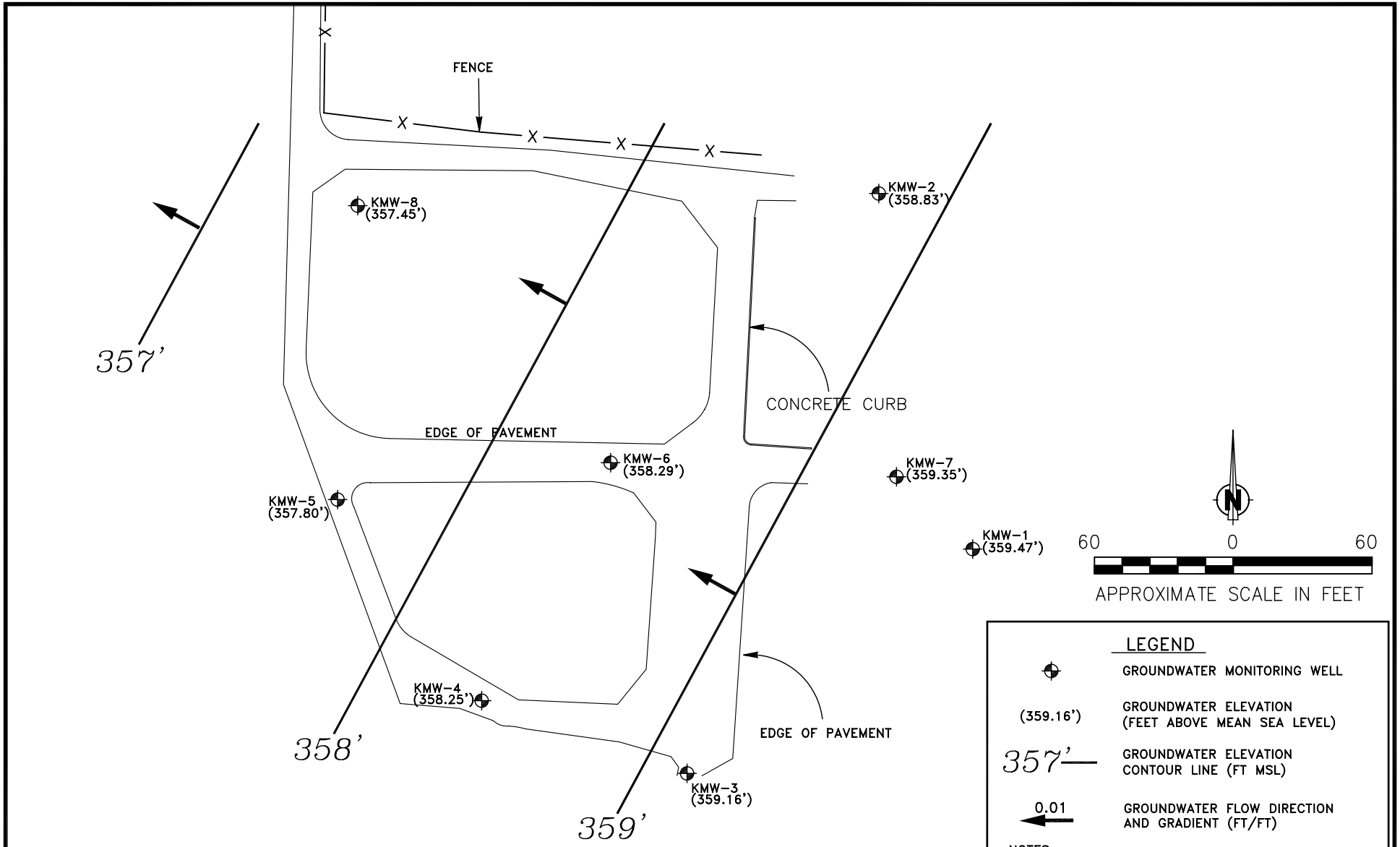
PROJ. NO.	DWN. BY:	ACAD FILE:
01203087.02	TMS	Figure 2.dwg
DATE	CHK. BY:	APP. BY:
1-12-07	SJC	S. Clements

SHEET TITLE: SITE PLAN

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

SCALE: AS SHOWN

FIGURE: 2



BASE:
SITE SURVEY CONDUCTED BY MORROW SURVEYING, INC. 3-26-2007

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6601 Koll Center Parkway, Suite 140
Pleasanton, California 94566
PH. (925) 426-0080 FAX. (925) 426-0707

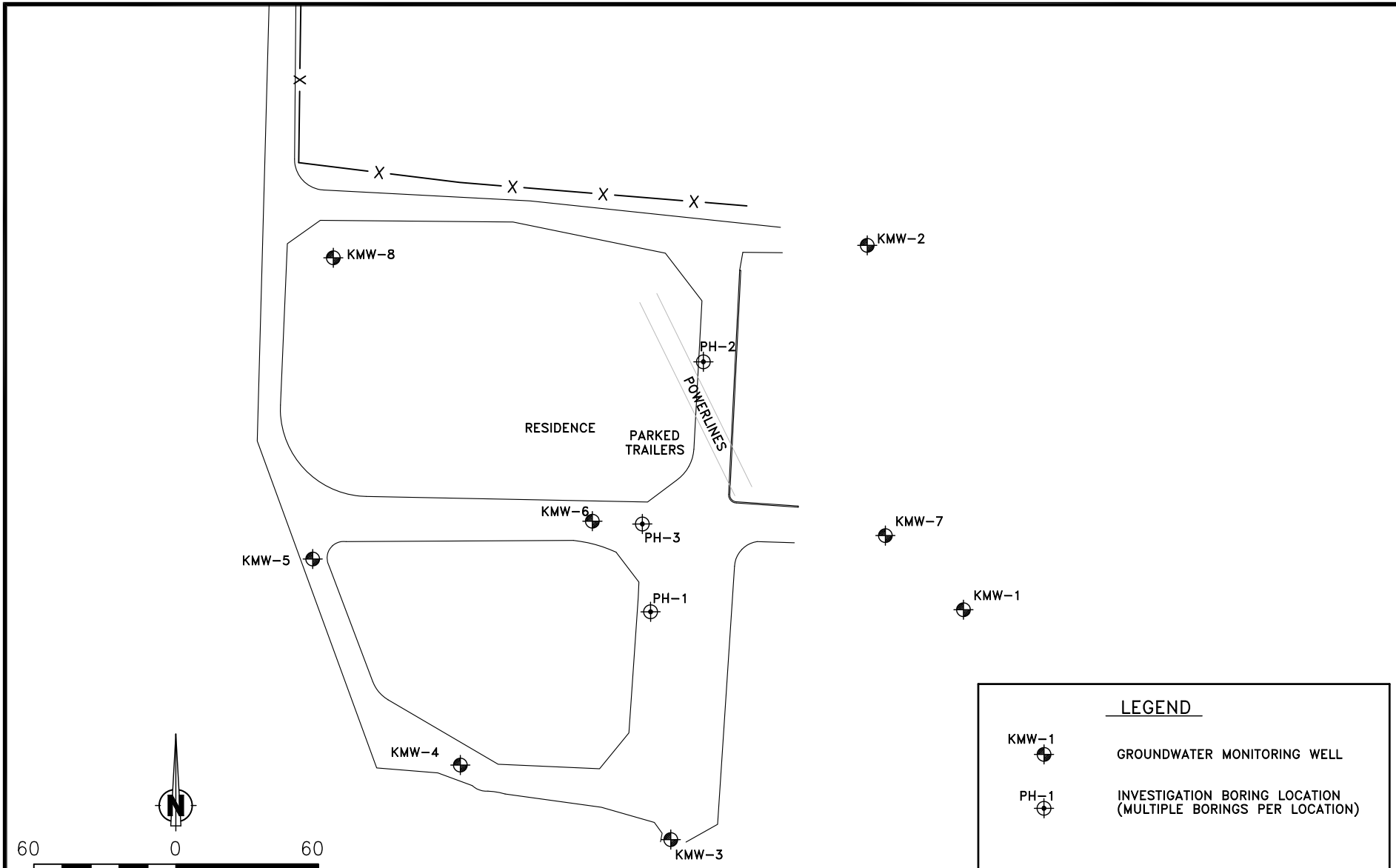
PROJ. NO.	DWN. BY:	ACAD FILE:
01203087.02	TMS	Figure 3.dwg
DATE	CHK. BY:	APP. BY:
4/18/07	TMS	S. Clements

SHEET TITLE: GROUNDWATER ELEVATION CONTOURS 4/18/07)

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

SCALE: AS SHOWN

FIGURE: 3



BASE:
SITE SURVEY CONDUCTED BY MORROW SURVEYING, INC. 3-26-2007

SCS ENGINEERS
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PROJ. NO.	DWN. BY:	ACAD FILE:
01203087.04	TMS	Figure 4.dwg
DATE	CHK. BY:	APP. BY:
10/2/07	TMS	S. Clements

SHEET TITLE:
SITE MAP SHOWING SAMPLE LOCATIONS

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

SCALE:
AS SHOWN

FIGURE:
4

TABLES

Table 1
Summary of Groundwater Elevation Data
Freisman Ranch Property
1600 Freisman Road, Livermore, California

Well	Sampling Date	Depth to Water (From T.O.C)	T.O.C. Elevation (USGS Datum)	Groundwater Elevation (USGS Datum)
		(feet)	(ft. above MSL)	(ft. above MSL)
KMW-1	09/08/97	12.82	372.53	357.30
	12/28/98	12.72		357.40
	01/12/99	12.97		357.15
	03/25/99	11.99		358.13
	06/21/99	NM		NC
	09/16/99	NM		NC
	10/16/02	14.27		355.85
	01/17/03	11.67		358.45
	04/15/03	11.08		359.04
	07/21/03	13.23		359.30
	10/30/03	13.85		358.68
	01/12/06	11.47		361.06
	01/21/06	11.67		360.86
	01/09/07	13.18		359.35
	04/18/07	13.06		359.47
KMW-2	09/08/97	14.28	373.18	356.44
	12/28/98	14.08		356.64
	01/12/99	14.32		356.40
	03/25/99	13.19		357.53
	06/21/99	NM		NC
	09/16/99	NM		NC
	10/16/02	*		*
	01/17/03	12.77		357.95
	04/15/03	12.73		357.99
	07/21/03	13.64		359.54
	10/30/03	Dry		Dry
	01/12/06	12.72		360.46
	01/21/06	12.80		360.38
	01/09/07	14.44		358.74
	04/18/07	14.35		358.83

Table 1
Summary of Groundwater Elevation Data
Freisman Ranch Property
1600 Freisman Road, Livermore, California

Well	Sampling Date	Depth to Water (From T.O.C)	T.O.C. Elevation (USGS Datum)	Groundwater Elevation (USGS Datum)
		(feet)	(ft. above MSL)	(ft. above MSL)
KMW-3	09/08/97	12.34	371.66	356.76
	12/28/98	12.39		356.71
	01/12/99	15.13		353.97
	03/25/99	11.59		357.51
	06/21/99	NM		NC
	09/16/99	NM		NC
	10/16/02	13.69		355.41
	01/17/03	10.85		345.20
	04/15/03	10.16		361.50
	07/21/03	12.59		359.07
	10/30/03	13.19		358.47
	01/12/06	10.44		361.22
	01/09/07	12.63		359.03
	04/18/07	12.50		359.16
KMW-4	09/08/97	13.76	372.37	356.04
	12/28/98	13.76		356.04
	01/12/99	14.40		355.40
	03/25/99	12.89		356.91
	06/21/99	NM		NC
	09/16/99	NM		NC
	10/16/02	15.92		353.88
	01/17/03	12.17		357.63
	04/15/03	11.90		360.47
	07/21/03	14.55		357.82
	10/30/03	15.40		356.97
	01/12/06	11.80		360.57
	01/09/07	14.20		358.17
	04/18/07	14.12		358.25

Table 1
Summary of Groundwater Elevation Data
Freisman Ranch Property
1600 Freisman Road, Livermore, California

Well	Sampling Date	Depth to Water (From T.O.C)	T.O.C. Elevation (USGS Datum)	Groundwater Elevation (USGS Datum)
		(feet)	(ft. above MSL)	(ft. above MSL)
KMW-5	09/08/97	14.24	372.40	355.28
	12/28/98	14.17		355.35
	01/12/99	15.32		354.20
	03/25/99	13.27		356.25
	06/21/99	NM		NC
	09/16/99	NM		NC
	10/16/02	16.45		353.07
	01/17/03	12.60		356.92
	04/15/03	12.76		359.64
	07/21/03	15.08		357.32
	10/30/03	16.02		356.38
	01/12/06	12.30		360.10
	01/09/07	14.67		357.73
	04/18/07	14.60		357.80
KMW-6	09/08/97	14.28	372.76	355.80
	12/28/98	14.16		355.92
	01/12/99	14.47		355.61
	03/25/99	13.22		356.86
	06/21/99	14.56		355.52
	09/16/99	14.29		355.79
	10/16/02	16.27		353.81
	01/17/03	12.54		357.54
	04/15/03	12.56		360.20
	07/21/03	14.82		357.94
	10/30/03	15.85		356.91
	01/12/06	12.41		360.35
	01/21/06	12.90		359.86
	01/09/07	14.55		358.21
	04/18/07	14.47		358.29

Table 1
Summary of Groundwater Elevation Data
Freisman Ranch Property
1600 Freisman Road, Livermore, California

Well	Sampling Date	Depth to Water (From T.O.C)	T.O.C. Elevation (USGS Datum)	Groundwater Elevation (USGS Datum)
		(feet)	(ft. above MSL)	(ft. above MSL)
KMW-7	12/28/98	12.91	372.58	357.13
	01/12/99	13.15		356.89
	03/25/99	12.12		357.92
	06/21/99	12.86		357.18
	09/16/99	13.00		357.04
	10/16/02	14.63		355.41
	01/17/03	11.77		358.27
	04/15/03	11.31		361.27
	07/21/03	13.59		358.99
	10/30/03	14.19		358.39
	01/12/06	11.58		361.00
	01/21/06	11.75		360.83
	01/09/07	13.37		359.21
	04/18/07	13.23		359.35
KMW-8	12/28/98	13.37	371.17	355.24
	01/12/99	13.70		354.91
	03/25/99	12.48		356.13
	06/21/99	13.30		355.31
	09/16/99	13.57		355.04
	10/16/02	15.85		352.76
	01/17/03	11.87		356.74
	04/15/03	12.25		358.92
	07/21/03	14.31		356.86
	10/30/03	15.23		355.94
	01/12/06	11.55		359.62
	01/21/06	11.85		359.32
	01/09/07	13.79		357.38
	04/18/07	13.72		357.45

Notes:

MSL = Mean Sea Level NC = Not Calculable

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

Casing elevations surveyed on 3/26/2007 by Morrow Surveying, Inc.

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
Freisman Ranch Property
1600 Freisman Road, Livermore, California

Well	Sample Date	Field Parameter				
		pH	EC	Temperature	Turbidity	DO
			mS/cm	°C	NTUs	mg/L
KMW-1	4/18/07	7.03	1.20	15.3	nm	1.61
KMW-2	4/18/07	7.05	1.40	14.7	13	1.14
	4/19/07	7.01	1.40	15.4	29	**
KMW-3	4/18/07	7.16	1.60	15.8	250	1.26
KMW-4	4/18/07	6.93	1.50	17.0	nm	1.98
KMW-5	4/18/07	7.04	1.50	17.4	110	1.82
	4/19/07	6.85	1.50	16.7	49	**
KMW-6	4/18/07	6.77	1.90	18.8	nm	0.82
	4/19/07	6.60	1.90	18.0	55	**
KMW-7	4/18/07	6.81	1.50	17.2	nm	0.70
	4/19/07	6.76	1.50	16.5	23	**
KMW-8	4/18/07	7.04	1.70	16.3	0	1.68
	4/19/07	6.90	1.70	15.4	38	**

Notes:

mS/cm = milliSiemens per centimeter

ORP = Oxidation Reduction Potential

NTU = Nephelometric Turbidity Units

mV = millivolts

mg/L = milligrams per Liter

nm = not measured due to instrument malfunction (visually very clear)

DO = Dissolved Oxygen (measured before purging wells (4/18/07) using down hole sensor).

** = not measured

Table 3

Summary of Groundwater Analytical Results - Groundwater Monitoring Wells

Freisman Ranch Property

1600 Freisman Road, Livermore, California

Well	Sample Date	TPH-D	TPH-G	TPH-SS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	n-butyl Benzene	Isopropyl Benzene	1,2-DCA	Naphthalene	n-Propyl Benzene	1,2,4-Trimethyl Benzene	Dissolved 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		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
	4/18/2007	<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	<0.5	<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	**5.0**
	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
	4/18/2007	<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
	4/19/2007	<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
	4/18/2007	<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 - Groundwater Monitoring Wells

Freisman Ranch Property

1600 Freisman Road, Livermore, California

Well	Sample Date	TPH-D	TPH-G	TPH-SS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	n-butyl Benzene	Isopropyl Benzene	1,2-DCA	Naphthalene	n-Propyl Benzene	1,2,4-Trimethyl Benzene	Dissolved 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
	4/18/2007	<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
	4/18/2007	<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
	4/19/2007	<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	<0.5	<0.5
	4/18/2007	<50	**86, m**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.59	<0.5	<0.5	<0.5
	4/19/2007	**1,100, d**	**2,700, a**	**890**	**35**	<5.0	**52**	**23**	<5.0	21	25	<5.0	**110**	86	<5.0	<0.5

Table 3

Summary of Groundwater Analytical Results - Groundwater Monitoring Wells

Freisman Ranch Property

1600 Freisman Road, Livermore, California

Well	Sample Date	TPH-D	TPH-G	TPH-SS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	n-butyl Benzene	Isopropyl Benzene	1,2-DCA	Naphthalene	n-Propyl Benzene	1,2,4-Trimethyl Benzene	Dissolved 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
	4/18/2007	<50	**170, m**	96	0.6	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5
	4/19/2007	**290, d**	**720, a**	**490**	**3.3**	<0.5	12	**33**	<0.5	1.8	3.6	<0.5	11	7.7	32	<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
	4/18/2007	<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
	4/19/2007	<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
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 (possibly stoddard solvent/mineral spirit)
MTBE	Methyl Tertiary-Butyl Ether	g	strongly aged gasoline or diesel range compounds are significant
µg/L	Micrograms per Liter (approx. equal to parts per billion)	h	Lighter than water immiscible sheen is present
<0.5	Not detected at or above the laboratory method reporting limit	n	stoddard solvent/mineral spirit
a	Unmodified or weakly modified gasoline is significant	m	No recognizable pattern
b	Diesel range compounds are significant; no recognizable pattern	NA	Not analyzed
TAP	Sample collected from the on-site water supply well	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 Groundwater Sample Analytical Results - CPT Investigation
Freisman Ranch Property
1600 Freisman Road, Livermore, California

Boring	Sample Depth (feet)	Benzene	n-Butyl benzene	sec-Butyl benzene	1,2-DCA	Ethyl-benzene	Isopropyl-benzene	Naphthalene	n-Propyl-benzene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Xylenes	TPHg	TPHss	TPHd	Dissolved Lead
		EPA Method 8260B											EPA Method 8015C			E200.8
		µg/L														
PH-1	24	**5.1**	**13**	**6.1**	<5.0	**36**	**24**	**38**	**63**	**110**	**30**	**23**	**2,200**	**1,500**	**1,000**	**1.5**
	63	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	<0.5
PH-2	29	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	**2.2**
	51	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	<0.5
PH-3	23	<0.5	<0.5	<0.5	**0.50**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	<0.5
	85	<0.5	<0.5	<0.5	<0.5	**0.61**	<0.5	<0.5	<0.5	**0.57**	<0.5	<0.5	<50	<50	<50	<0.5
ESL		1.0	NE	NE	0.5	30	NE	17	NE	NE	NE	20	100	100	100	2.5

Notes:

Samples collected on August 21 through August 23, 2007

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

NE = Not Established

TPHg = total petroleum hydrocarbons as gasoline

TPHss = TPH as stoddard solvent

TPHd = TPH as diesel fuel

ESL = Environmental Screening Level for groundwater in deep soil (greater than 3 meters) that is a current or potential source of drinking water - San Francisco Bay Regional Water Quality Control Board, Interim Final - February 2005.

Table 5
Summary of Soil Sample Analytical Results - CPT Investigation
Freisman Ranch Property
1600 Freisman Road, Livermore, California

Boring	Sample Depth (feet)	MEK	n-Butyl benzene	sec-Butyl benzene	Ethyl-benzene	Isopropyl-benzene	Naphthalene	n-Propyl benzene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Xylenes	TPHg	TPHss	TPHd	Lead
		EPA Methods 5035B/ 8260B										EPA Method 8015C			EPA Method 6010C
		mg/kg													
PH-1	19	<4.1	**8.0**	**1.4**	**4.9**	**1.8**	**3.5**	**7.2**	**12**	**12**	<1.0	**990**	**420**	**360**	**8.1**
	57	<0.02	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<1.0	<1.0	<1.0	**5.9**
PH-2	25	<0.016	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<1.0	<1.0	<1.0	**6.3**
	48	<0.0017	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<1.0	<1.0	<1.0	**5.5**
PH-3	17	**0.67**	**0.65**	**0.12**	**0.75**	**0.16**	**0.30**	**0.66**	**2.3**	**0.87**	**0.88**	**120**	**44**	**20**	**7.6**
	78	<0.017	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<1	<1	<1	**7.7**
ESL (residential)		3.9	NE	NE	3.3	NE	0.46	NE	NE	NE	2.3	100	100	100	750

Notes:

Samples collected on August 21 through August 23, 2007

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

NE = Not Established

TPHg = total petroleum hydrocarbons as gasoline

TPHss = TPH as stoddard solvent

TPHd = TPH as diesel fuel

MEK = methyl ethyl ketone

ESL = Environmental Screening Level for deep soil (greater than 3 meters) at sites located above groundwater that is a current or potential source of drinking water - San Francisco Bay Regional Water Quality Control Board, Interim Final - February 2005.

APPENDIX A

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION (4/18/2007)

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 1600 Freisman Road	Date Sampled: 04/18/07
		Date Received: 04/18/07
	Client Contact: Steve Clements	Date Reported: 04/24/07
	Client P.O.:	Date Completed: 04/24/07

WorkOrder: 0704375

April 24, 2007

Dear Steve:

Enclosed are:

1). the results of **10** analyzed samples from your **#01203087.02; Freisman Ranch 1600 Freisman Road 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

SCSD 0704375

CHAIN OF CUSTODY RECORD

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: 10

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 1600 Freisman Road

W.O. / S.O. #:

PROJECT LOCATION: 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: 8015C TPH-g-d-ss	Full 8260	Dissolved Lead	LAB USE ONLY
	KMW-1	H2O	4-18-07	1 Am L 4 VOAS	HCl		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	
	KMW-7 DUP						X	X	X	
	QCTB	↓	↓	↓	↓		X	X		

TWN 8260 only per client 4/19/07

ICE/t° 5+
GOOD CONDITION ✓
HEAD SPACE ABSENT ___
DECHLORINATED IN LAB ___
APPROPRIATE CONTAINERS ✓
PRESERVED 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:
	4/18/07	Saul R.	4/18/07	Saul R.			4/18/07
COMPANY: SCS	TIME: 4:21	COMPANY: Enviro-Tech	TIME: 1622	COMPANY: Enviro-Tech	TIME: 1951	COMPANY:	TIME: 1951

R.L. Rick Daly 4-18-07 8:10 P.M.

Shelli Lemmon 4/18/07 8:13

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0704375 **ClientID: SCSD**

☐ EDF ☐ Excel ☐ 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) 426-008 FAX: (925) 426-070
ProjectNo: #01203087.02; Freisman Ranch 1600
PO:

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

Requested TAT: 5 days

Date Received **04/18/2007**
Date Printed: **04/19/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0704375-001	KMW-1	Water	4/18/2007	☐	B	A	C	C								
0704375-002	KMW-2	Water	4/18/2007	☐	B	A	C	C								
0704375-003	KMW-3	Water	4/18/2007	☐	B	A	C	C								
0704375-004	KMW-4	Water	4/18/2007	☐	B	A	C	C								
0704375-005	KMW-5	Water	4/18/2007	☐	B	A	C	C								
0704375-006	KMW-6	Water	4/18/2007	☐	B	A	C	C								
0704375-007	KMW-7	Water	4/18/2007	☐	B	A	C	C								
0704375-008	KMW-8	Water	4/18/2007	☐	B	A	C	C								
0704375-009	KMW-7 DUP	Water	4/18/2007	☐	B	A	C	C								
0704375-010	QCTB	Water	4/18/2007	☐	B											

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: 0704375-001A, 0704375-002A, 0704375-003A, 0704375-004A, 0704375-005A, 0704375-006A, 0704375-007A, 0704375-008A, 0704375-009A contain testgroup.

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.

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Sample Receipt Checklist

Client Name: **SCS Engineers** Date and Time Received: **4/18/2007 8:18:56 PM**

Project Name: **#01203087.02; Freisman Ranch 1600 Freisman Ro** Checklist completed and reviewed by: SC

WorkOrder N°: **0704375** Matrix Water Carrier: EnviroTech

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

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

Client contacted: Date contacted: Contacted by:

Comments:

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SCS Engineers	Client Project ID: #01203087.02; Freisman Ranch 1600 Freisman Road	Date Sampled: 04/18/07
		Date Received: 04/18/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 04/19/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 04/19/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0704375

Lab ID	0704375-001B
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:	102	%SS2:	98
%SS3:	106		

Comments:

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

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

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; 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 1600 Freisman Road	Date Sampled: 04/18/07
		Date Received: 04/18/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 04/19/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 04/19/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0704375

Lab ID	0704375-002B
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:	103	%SS2:	99
%SS3:	107		

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; J) analyte detected below quantitation limits; 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 1600 Freisman Road	Date Sampled: 04/18/07
		Date Received: 04/18/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 04/20/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 04/20/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0704375

Lab ID	0704375-003B
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:	102	%SS2:	98
%SS3:	106		

Comments:

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

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

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; 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 1600 Freisman Road	Date Sampled: 04/18/07
		Date Received: 04/18/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 04/20/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 04/20/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0704375

Lab ID	0704375-004B
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:	103	%SS2:	99
%SS3:	110		

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; J) analyte detected below quantitation limits; 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 1600 Freisman Road	Date Sampled: 04/18/07
		Date Received: 04/18/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 04/20/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 04/20/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0704375

Lab ID	0704375-005B
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:	102	%SS2:	98
%SS3:	109		

Comments:

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

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

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; 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 1600 Freisman Road	Date Sampled: 04/18/07
		Date Received: 04/18/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 04/20/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 04/20/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0704375

Lab ID	0704375-006B
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	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	0.59	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:	99
%SS3:	108		

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; J) analyte detected below quantitation limits; 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 1600 Freisman Road	Date Sampled: 04/18/07
		Date Received: 04/18/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 04/20/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 04/20/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0704375

Lab ID	0704375-007B
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	0.60	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	1.1	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	1.2	1.0	0.5

Surrogate Recoveries (%)

%SS1:	101	%SS2:	99
%SS3:	107		

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; J) analyte detected below quantitation limits; 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 1600 Freisman Road	Date Sampled: 04/18/07
		Date Received: 04/18/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 04/20/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 04/20/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0704375

Lab ID	0704375-008B
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:	103	%SS2:	99
%SS3:	107		

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; J) analyte detected below quantitation limits; 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 1600 Freisman Road	Date Sampled: 04/18/07
		Date Received: 04/18/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 04/20/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 04/20/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0704375

Lab ID	0704375-009B
Client ID	KMW-7 DUP
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	0.57	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	0.61	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	1.0	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	1.2	1.0	0.5

Surrogate Recoveries (%)

%SS1:	102	%SS2:	99
%SS3:	106		

Comments:

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

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

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; 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 1600 Freisman Road	Date Sampled: 04/18/07
		Date Received: 04/18/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 04/20/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 04/20/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0704375

Lab ID	0704375-010B
Client ID	QCTB
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	0.58	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:	99
%SS3:	109		

Comments:

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

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

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; 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 1600 Freisman Road	Date Sampled: 04/18/07
		Date Received: 04/18/07
	Client Contact: Steve Clements	Date Extracted: 04/19/07-04/20/07
	Client P.O.:	Date Analyzed 04/19/07-04/20/07

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

Extraction method: SW5030B Analytical methods: SW8015Cm Work Order: 0704375

Lab ID	Client ID	Matrix	TPH(g)	TPH(ss)	DF	% SS
0704375-001A	KMW-1	W	ND	ND	1	99
0704375-002A	KMW-2	W	ND	ND	1	97
0704375-003A	KMW-3	W	ND	ND	1	95
0704375-004A	KMW-4	W	ND	ND	1	95
0704375-005A	KMW-5	W	ND	ND	1	97
0704375-006A	KMW-6	W	86,m	ND	1	103
0704375-007A	KMW-7	W	130,m	85	1	103
0704375-008A	KMW-8	W	ND	ND	1	101
0704375-009A	KMW-7 DUP	W	170,m	96	1	95

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 due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
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SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01203087.02; Freisman Ranch 1600 Freisman Road	Date Sampled: 04/18/07
		Date Received: 04/18/07
	Client Contact: Steve Clements	Date Extracted: 04/18/07
	Client P.O.:	Date Analyzed 04/19/07

Lead by ICP-MS*

Extraction method E200.8 Analytical methods E200.8 Work Order: 0704375

Lab ID	Client ID	Matrix	Extraction	Lead	DF	% SS
0704375-001C	KMW-1	W	DISS.	ND	1	N/A
0704375-002C	KMW-2	W	DISS.	ND	1	N/A
0704375-003C	KMW-3	W	DISS.	ND	1	N/A
0704375-004C	KMW-4	W	DISS.	ND	1	N/A
0704375-005C	KMW-5	W	DISS.	ND	1	N/A
0704375-006C	KMW-6	W	DISS.	ND	1	N/A
0704375-007C	KMW-7	W	DISS.	ND	1	N/A
0704375-008C	KMW-8	W	DISS.	ND	1	N/A
0704375-009C	KMW-7 DUP	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 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01203087.02; Freisman Ranch 1600 Freisman Road	Date Sampled: 04/18/07
		Date Received: 04/18/07
	Client Contact: Steve Clements	Date Extracted: 04/18/07
	Client P.O.:	Date Analyzed 04/19/07-04/20/07

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

Extraction method SW3510C Analytical methods SW8015C Work Order: 0704375

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0704375-001A	KMW-1	W	ND	1	99
0704375-002A	KMW-2	W	ND	1	100
0704375-003A	KMW-3	W	ND	1	96
0704375-004A	KMW-4	W	ND	1	105
0704375-005A	KMW-5	W	ND	1	109
0704375-006A	KMW-6	W	ND	1	97
0704375-007A	KMW-7	W	ND	1	98
0704375-008A	KMW-8	W	ND	1	114
0704375-009A	KMW-7 DUP	W	ND	1	96

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

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

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

+The following descriptions of the TPH chromatogram are cursory in nature and 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/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0704375

EPA Method SW8015C	Extraction SW3510C	BatchID: 27493	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	118	116	1.63	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	113	115	1.75	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 27493 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0704375-001A	04/18/07	04/18/07	04/19/07 8:35 AM	0704375-002A	04/18/07	04/18/07	04/19/07 9:43 AM
0704375-003A	04/18/07	04/18/07	04/19/07 10:41 PM	0704375-004A	04/18/07	04/18/07	04/19/07 3:01 AM
0704375-005A	04/18/07	04/18/07	04/19/07 4:07 AM	0704375-006A	04/18/07	04/18/07	04/20/07 2:07 AM
0704375-007A	04/18/07	04/18/07	04/19/07 11:50 PM	0704375-008A	04/18/07	04/18/07	04/19/07 9:43 AM
0704375-009A	04/18/07	04/18/07	04/20/07 12:58 AM				

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

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

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

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

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

DHS ELAP Certification N° 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0704375

EPA Method SW8260B	Extraction SW5030B				BatchID: 27529				Spiked Sample ID: 0704370-001A			
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	109	109	0	97.3	95.6	1.73	70 - 130	30	70 - 130	30
Benzene	ND	10	113	110	2.32	103	101	2.13	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	90.2	97.6	7.83	86.9	87	0.0367	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	105	107	1.97	102	98.6	3.74	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	93.6	98.1	4.78	91.5	88.9	2.88	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	117	119	1.41	103	99.7	2.76	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	85.4	82.9	2.86	82.6	80.5	2.57	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	126	125	0.646	110	109	0.668	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	117	115	1.24	103	101	1.98	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	113	114	1.57	104	103	1.05	70 - 130	30	70 - 130	30
Toluene	ND	10	96.3	98.4	2.16	95.3	92.9	2.59	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	94.8	92.9	2.05	89.6	87.4	2.55	70 - 130	30	70 - 130	30
%SS1:	97	10	97	95	2.62	92	91	1.33	70 - 130	30	70 - 130	30
%SS2:	97	10	100	101	0.918	102	101	0.533	70 - 130	30	70 - 130	30
%SS3:	89	10	113	113	0	108	107	1.06	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 27529 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0704375-001B	04/18/07	04/19/07	04/19/07 9:38 PM	0704375-002B	04/18/07	04/19/07	04/19/07 10:23 PM
0704375-003B	04/18/07	04/20/07	04/20/07 12:35 AM	0704375-004B	04/18/07	04/20/07	04/20/07 1:19 AM
0704375-005B	04/18/07	04/20/07	04/20/07 2:03 AM	0704375-006B	04/18/07	04/20/07	04/20/07 2:47 AM
0704375-007B	04/18/07	04/20/07	04/20/07 3:30 AM	0704375-008B	04/18/07	04/20/07	04/20/07 4:14 AM
0704375-009B	04/18/07	04/20/07	04/20/07 4:58 AM	0704375-010B	04/18/07	04/20/07	04/20/07 5:43 AM

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

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

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

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

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

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QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0704375

EPA Method E200.8	Extraction E200.8				BatchID: 27538				Spiked Sample ID: 0704372-015A			
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	0.92	10	98.9	99.9	0.921	93.1	100	7.17	75 - 125	20	85 - 115	20
%SS:	102	750	106	107	0.916	93	94	1.44	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 27538 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0704375-001C	04/18/07	04/18/07	04/19/07 7:52 AM	0704375-002C	04/18/07	04/18/07	04/19/07 7:57 AM
0704375-003C	04/18/07	04/18/07	04/19/07 8:02 AM	0704375-004C	04/18/07	04/18/07	04/19/07 8:07 AM
0704375-005C	04/18/07	04/18/07	04/19/07 8:13 AM	0704375-006C	04/18/07	04/18/07	04/19/07 8:18 AM
0704375-007C	04/18/07	04/18/07	04/19/07 8:23 AM	0704375-008C	04/18/07	04/18/07	04/19/07 8:28 AM
0704375-009C	04/18/07	04/18/07	04/19/07 8:33 AM				

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

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

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

N/A = not applicable to this method.

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

DHS ELAP Certification N° 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0704375

EPA Method SW8021B/8015Cm	Extraction SW5030B				BatchID: 27539				Spiked Sample ID: 0704375-001A			
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	112	128	13.1	100	90.7	10.2	70 - 130	30	70 - 130	30
MTBE	ND	10	111	117	5.23	120	118	1.02	70 - 130	30	70 - 130	30
Benzene	ND	10	108	114	5.28	109	111	1.87	70 - 130	30	70 - 130	30
Toluene	ND	10	123	124	0.767	98.6	99.5	0.918	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	115	119	3.07	106	105	1.15	70 - 130	30	70 - 130	30
Xylenes	ND	30	119	125	5.41	103	103	0	70 - 130	30	70 - 130	30
%SS:	99	10	100	100	0	94	96	1.74	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 27539 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0704375-001A	04/18/07	04/19/07	04/19/07 10:39 PM	0704375-002A	04/18/07	04/20/07	04/20/07 2:41 PM
0704375-003A	04/18/07	04/19/07	04/19/07 11:09 PM	0704375-004A	04/18/07	04/20/07	04/20/07 2:11 PM
0704375-005A	04/18/07	04/20/07	04/20/07 3:10 AM	0704375-006A	04/18/07	04/20/07	04/20/07 4:09 AM
0704375-007A	04/18/07	04/20/07	04/20/07 3:43 PM	0704375-008A	04/18/07	04/20/07	04/20/07 5:40 AM
0704375-009A	04/18/07	04/20/07	04/20/07 4:13 PM				

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

DHS ELAP Certification N° 1644

QA/QC Officer

APPENDIX B

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION (4/19/2007)

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SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01203087.02; Freisman Ranch, 1600 Freisman Rd.	Date Sampled: 04/19/07
		Date Received: 04/19/07
	Client Contact: Steve Clements	Date Reported: 04/25/07
	Client P.O.:	Date Completed: 04/25/07

WorkOrder: 0704407

April 25, 2007

Dear Steve:

Enclosed are:

1). the results of **6** analyzed samples from your **#01203087.02; Freisman Ranch, 1600 Freisman Rd. 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

SCSD 0704C7

CHAIN OF CUSTODY RECORD

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: 6

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, 1600 Freisman Rd.

W.O. / S.O. #:

PROJECT LOCATION: 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: 8015C TPH-g-d-ss	Full 8260	Dissolved lead	LAB USE ONLY
(+)	KMW-2	H2O	4-19-07	1 AM & 4 VOAs	HCl		X	X	X	
(+)	KMW-8						X	X	X	
(+)	KMW-5						X	X	X	
✓	KMW-7						X	X	X	
+	KMW-6						X	X	X	
✓	QCTB	↓	↓	2 VOAs	↓			X		

ICE/T 4.3°c ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS ✓
PRESERVED 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:
	4-19-07	Envirotech TL	4-19-07	Enviro-Tech	4/19/07	Roly Faby	4/19/07
COMPANY: SCS	TIME: 4:56	COMPANY:	TIME: 4:56	COMPANY: Sael	TIME: 1935	COMPANY:	TIME: 1735

REL Verbal Plan 4-19-07 20:00pm rec: MW Vall 4/19/07 20:10

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0704407 **ClientID: SCSD**

☐ EDF ☐ Excel ☐ 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) 426-008 FAX: (925) 426-070
ProjectNo: #01203087.02; Freisman Ranch, 1600
PO:

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

Requested TAT: 5 days

Date Received **04/19/2007**
Date Printed: **04/19/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0704407-001	KMW-2	Water	04/19/07	☐	B	A	C	C								
0704407-002	KMW-8	Water	04/19/07	☐	B	A	C	C								
0704407-003	KMW-5	Water	04/19/07	☐	B	A	C	C								
0704407-004	KMW-7	Water	04/19/07	☐	B	A	C	C								
0704407-005	KMW-6	Water	04/19/07	☐	B	A	C	C								
0704407-006	QCTB	Water	04/19/07	☐	A											

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: 0704407-001A, 0704407-002A, 0704407-003A, 0704407-004A, 0704407-005A contain testgroup.

Prepared by: Melissa Valles

Comments:

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

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Sample Receipt Checklist

Client Name: **SCS Engineers** Date and Time Received: **04/19/07 8:20:39 PM**

Project Name: **#01203087.02; Freisman Ranch, 1600 Freisman Rd** Checklist completed and reviewed by: Melissa Valles

WorkOrder N°: **0704407** Matrix Water Carrier: Courier

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 4.3°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	

Client contacted: Date contacted: Contacted by:

Comments:

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SCS Engineers	Client Project ID: #01203087.02; Freisman Ranch, 1600 Freisman Rd.	Date Sampled: 04/19/07
		Date Received: 04/19/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 04/21/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 04/21/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0704407

Lab ID	0704407-001B
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:	104	%SS2:	97
%SS3:	114		

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; J) analyte detected below quantitation limits; 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, 1600 Freisman Rd.	Date Sampled: 04/19/07
		Date Received: 04/19/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 04/21/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 04/21/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0704407

Lab ID	0704407-002B
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:	104	%SS2:	97
%SS3:	110		

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; J) analyte detected below quantitation limits; 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, 1600 Freisman Rd.	Date Sampled: 04/19/07
		Date Received: 04/19/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 04/21/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 04/21/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0704407

Lab ID	0704407-003B
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:	104	%SS2:	97
%SS3:	111		

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; J) analyte detected below quantitation limits; 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, 1600 Freisman Rd.	Date Sampled: 04/19/07
		Date Received: 04/19/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 04/21/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 04/21/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0704407

Lab ID	0704407-004B
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	3.3	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	1.8	1.0	0.5	sec-Butyl benzene	1.2	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	12	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	3.6	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	11	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	7.7	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	32	1.0	0.5	1,3,5-Trimethylbenzene	4.7	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	33	1.0	0.5

Surrogate Recoveries (%)

%SS1:	102	%SS2:	95
%SS3:	112		

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; J) analyte detected below quantitation limits; 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, 1600 Freisman Rd.	Date Sampled: 04/19/07
		Date Received: 04/19/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 04/21/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 04/21/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0704407

Lab ID	0704407-005B
Client ID	KMW-6
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<100	10	10	Acrolein (Propenal)	ND<50	10	5.0
Acrylonitrile	ND<20	10	2.0	tert-Amyl methyl ether (TAME)	ND<5.0	10	0.5
Benzene	35	10	0.5	Bromobenzene	ND<5.0	10	0.5
Bromochloromethane	ND<5.0	10	0.5	Bromodichloromethane	ND<5.0	10	0.5
Bromoform	ND<5.0	10	0.5	Bromomethane	ND<5.0	10	0.5
2-Butanone (MEK)	ND<20	10	2.0	t-Butyl alcohol (TBA)	ND<50	10	5.0
n-Butyl benzene	21	10	0.5	sec-Butyl benzene	8.0	10	0.5
tert-Butyl benzene	ND<5.0	10	0.5	Carbon Disulfide	ND<5.0	10	0.5
Carbon Tetrachloride	ND<5.0	10	0.5	Chlorobenzene	ND<5.0	10	0.5
Chloroethane	ND<5.0	10	0.5	2-Chloroethyl Vinyl Ether	ND<10	10	1.0
Chloroform	ND<5.0	10	0.5	Chloromethane	ND<5.0	10	0.5
2-Chlorotoluene	ND<5.0	10	0.5	4-Chlorotoluene	ND<5.0	10	0.5
Dibromochloromethane	ND<5.0	10	0.5	1,2-Dibromo-3-chloropropane	ND<5.0	10	0.5
1,2-Dibromoethane (EDB)	ND<5.0	10	0.5	Dibromomethane	ND<5.0	10	0.5
1,2-Dichlorobenzene	ND<5.0	10	0.5	1,3-Dichlorobenzene	ND<5.0	10	0.5
1,4-Dichlorobenzene	ND<5.0	10	0.5	Dichlorodifluoromethane	ND<5.0	10	0.5
1,1-Dichloroethane	ND<5.0	10	0.5	1,2-Dichloroethane (1,2-DCA)	ND<5.0	10	0.5
1,1-Dichloroethene	ND<5.0	10	0.5	cis-1,2-Dichloroethene	ND<5.0	10	0.5
trans-1,2-Dichloroethene	ND<5.0	10	0.5	1,2-Dichloropropane	ND<5.0	10	0.5
1,3-Dichloropropane	ND<5.0	10	0.5	2,2-Dichloropropane	ND<5.0	10	0.5
1,1-Dichloropropene	ND<5.0	10	0.5	cis-1,3-Dichloropropene	ND<5.0	10	0.5
trans-1,3-Dichloropropene	ND<5.0	10	0.5	Diisopropyl ether (DIPE)	ND<5.0	10	0.5
Ethylbenzene	52	10	0.5	Ethyl tert-butyl ether (ETBE)	ND<5.0	10	0.5
Freon 113	ND<100	10	10	Hexachlorobutadiene	ND<5.0	10	0.5
Hexachloroethane	ND<5.0	10	0.5	2-Hexanone	ND<5.0	10	0.5
Isopropylbenzene	25	10	0.5	4-Isopropyl toluene	ND<5.0	10	0.5
Methyl-t-butyl ether (MTBE)	ND<5.0	10	0.5	Methylene chloride	ND<5.0	10	0.5
4-Methyl-2-pentanone (MIBK)	ND<5.0	10	0.5	Naphthalene	110	10	0.5
Nitrobenzene	ND<100	10	10	n-Propyl benzene	86	10	0.5
Styrene	ND<5.0	10	0.5	1,1,1,2-Tetrachloroethane	ND<5.0	10	0.5
1,1,2,2-Tetrachloroethane	ND<5.0	10	0.5	Tetrachloroethene	ND<5.0	10	0.5
Toluene	ND<5.0	10	0.5	1,2,3-Trichlorobenzene	ND<5.0	10	0.5
1,2,4-Trichlorobenzene	ND<5.0	10	0.5	1,1,1-Trichloroethane	ND<5.0	10	0.5
1,1,2-Trichloroethane	ND<5.0	10	0.5	Trichloroethene	ND<5.0	10	0.5
Trichlorofluoromethane	ND<5.0	10	0.5	1,2,3-Trichloropropane	ND<5.0	10	0.5
1,2,4-Trimethylbenzene	ND<5.0	10	0.5	1,3,5-Trimethylbenzene	ND<5.0	10	0.5
Vinyl Chloride	ND<5.0	10	0.5	Xylenes	23	10	0.5

Surrogate Recoveries (%)

%SS1:	102	%SS2:	99
%SS3:	116		

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; J) analyte detected below quantitation limits; 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, 1600 Freisman Rd.	Date Sampled: 04/19/07
		Date Received: 04/19/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 04/23/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 04/23/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0704407

Lab ID	0704407-006A
Client ID	QCTB
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	0.85	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	0.52	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:	101	%SS2:	99
%SS3:	108		

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; J) analyte detected below quantitation limits; 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, 1600 Freisman Rd.	Date Sampled: 04/19/07
		Date Received: 04/19/07
	Client Contact: Steve Clements	Date Extracted: 04/20/07-04/24/07
	Client P.O.:	Date Analyzed 04/20/07-04/24/07

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

Extraction method: SW5030B Analytical methods: SW8015Cm Work Order: 0704407

Lab ID	Client ID	Matrix	TPH(g)	TPH(ss)	DF	% SS
0704407-001A	KMW-2	W	ND	ND	1	108
0704407-002A	KMW-8	W	ND	ND	1	104
0704407-003A	KMW-5	W	ND	ND	1	95
0704407-004A	KMW-7	W	720,a	490	1	113
0704407-005A	KMW-6	W	2700,a	890	3.3	102

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 due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01203087.02; Freisman Ranch, 1600 Freisman Rd.	Date Sampled: 04/19/07
		Date Received: 04/19/07
	Client Contact: Steve Clements	Date Extracted: 04/19/07
	Client P.O.:	Date Analyzed: 04/21/07

Lead by ICP-MS*

Extraction method: E200.8 Analytical methods: E200.8 Work Order: 0704407

Lab ID	Client ID	Matrix	Extraction	Lead	DF	% SS
0704407-001C	KMW-2	W	DISS.	ND	1	N/A
0704407-002C	KMW-8	W	DISS.	ND	1	N/A
0704407-003C	KMW-5	W	DISS.	ND	1	N/A
0704407-004C	KMW-7	W	DISS.	ND	1	N/A
0704407-005C	KMW-6	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 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01203087.02; Freisman Ranch, 1600 Freisman Rd.	Date Sampled: 04/19/07
		Date Received: 04/19/07
	Client Contact: Steve Clements	Date Extracted: 04/19/07
	Client P.O.:	Date Analyzed 04/19/07-04/20/07

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

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0704407

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0704407-001A	KMW-2	W	ND	1	97
0704407-002A	KMW-8	W	ND	1	98
0704407-003A	KMW-5	W	ND	1	97
0704407-004A	KMW-7	W	290,d	1	98
0704407-005A	KMW-6	W	1100,d	1	98

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

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

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

+The following descriptions of the TPH chromatogram are cursory in nature and 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/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

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QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0704407

EPA Method E200.8	Extraction E200.8				BatchID: 27562			Spiked Sample ID: 0704402-001B			
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	93.6	92.8	0.844	92.6	91.3	1.41	75 - 125	20	85 - 115	20
%SS:	97	750	95	95	0	92	92	0	70 - 130	20	70 - 130	20

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

NONE

BATCH 27562 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0704407-001C	04/19/07	04/19/07	04/21/07 7:56 AM	0704407-002C	04/19/07	04/19/07	04/21/07 8:01 AM
0704407-003C	04/19/07	04/19/07	04/21/07 8:06 AM	0704407-004C	04/19/07	04/19/07	04/21/07 8:11 AM
0704407-005C	04/19/07	04/19/07	04/21/07 8:16 AM				

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

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

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

N/A = not applicable to this method.

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

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0704407

EPA Method SW8260B	Extraction SW5030B				BatchID: 27569				Spiked Sample ID: 0704407-001B			
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	103	103	0	99.9	102	2.48	70 - 130	30	70 - 130	30
Benzene	ND	10	108	110	2.33	105	107	1.75	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	85.3	90.5	5.88	88.5	90.4	2.11	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	102	104	1.35	101	102	0.692	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	92.7	94.3	1.72	90.8	92.2	1.53	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	112	112	0	107	110	3.27	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	82.4	83.7	1.54	82.1	84	2.30	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	119	121	1.61	114	118	3.56	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	110	111	0.898	106	110	3.20	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	110	110	0	107	110	3.19	70 - 130	30	70 - 130	30
Toluene	ND	10	95.5	96.1	0.600	93.9	94.4	0.455	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	90.5	92	1.70	89.3	90	0.805	70 - 130	30	70 - 130	30
%SS1:	104	10	95	93	2.69	94	95	0.943	70 - 130	30	70 - 130	30
%SS2:	97	10	100	100	0	101	100	0.705	70 - 130	30	70 - 130	30
%SS3:	114	10	111	112	0.376	111	111	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 27569 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0704407-001B	04/19/07	04/21/07	04/21/07 12:52 PM	0704407-002B	04/19/07	04/21/07	04/21/07 1:36 PM
0704407-003B	04/19/07	04/21/07	04/21/07 2:20 PM	0704407-004B	04/19/07	04/21/07	04/21/07 3:04 PM
0704407-005B	04/19/07	04/21/07	04/21/07 3:48 PM	0704407-006A	04/19/07	04/23/07	04/23/07 7:11 PM

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

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

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

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

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

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0704407

EPA Method SW8015C	Extraction SW3510C	BatchID: 27577	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	115	116	0.987	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	113	115	1.62	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 27577 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0704407-001A	04/19/07	04/19/07	04/19/07 9:46 PM	0704407-002A	04/19/07	04/19/07	04/19/07 10:54 PM
0704407-003A	04/19/07	04/19/07	04/20/07 12:02 AM	0704407-004A	04/19/07	04/19/07	04/20/07 1:09 AM
0704407-005A	04/19/07	04/19/07	04/20/07 2:17 AM				

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

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

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

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

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

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0704407

EPA Method SW8021B/8015Cm	Extraction SW5030B				BatchID: 27568				Spiked Sample ID: 0704407-001A			
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	95.7	99.8	4.27	97.9	92.9	5.22	70 - 130	30	70 - 130	30
MTBE	ND	10	118	119	0.814	118	117	0.935	70 - 130	30	70 - 130	30
Benzene	ND	10	110	107	2.48	109	106	2.60	70 - 130	30	70 - 130	30
Toluene	ND	10	104	99.2	5.07	100	95.4	5.10	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	111	109	1.92	110	104	6.17	70 - 130	30	70 - 130	30
Xylenes	ND	30	107	107	0	107	92.3	14.4	70 - 130	30	70 - 130	30
%SS:	108	10	95	95	0	97	91	6.06	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 27568 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0704407-001A	04/19/07	04/20/07	04/20/07 1:58 PM	0704407-002A	04/19/07	04/20/07	04/20/07 2:29 PM
0704407-003A	04/19/07	04/20/07	04/20/07 9:18 PM	0704407-004A	04/19/07	04/20/07	04/20/07 9:48 PM
0704407-005A	04/19/07	04/24/07	04/24/07 1:35 PM				

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

APPENDIX C

DEEP GROUNDWATER INVESTIGATION DRILLING PERMIT

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

FOR OFFICE USE

LOCATION OF PROJECT 1600 Friesman Rd, 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 Street Phone (510) 428-3360
City Oakland, CA Zip 94609

APPLICANT
Name SCS Engineers (Attn: Ted Sisson, REA)
Fax (925) 426-0707
Address 6001 Koll Center Pkwy Suite 140 Phone (925) 426-0080
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 Sonic (••••)

DRILLING COMPANY To be determined HEW, Boart L or Precision
DRILLER'S LICENSE NO. CA Licensed driller

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

SOIL BORINGS
Number of Borings 6 Maximum
Hole Diameter 8-10 in. Depth 100 ft.

ESTIMATED STARTING DATE June 28, 2007
ESTIMATED COMPLETION DATE July 31, 2007

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.
APPLICANT'S SIGNATURE _____ Date 6/20/2007
Ted Sisson REA No. 08290

ATTACH SITE PLAN OR SKETCH

PERMIT NUMBER 27113
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 6/28/07
Wyman Hong

Revised: April 27, 2005

APPENDIX D

DEEP GROUNDWATER INVESTIGATION CPT REPORT AND LOGS

Cone Penetration Test Data Report

Site:
Friesman Ranch
Friesman Road
Livermore, CA

Prepared for:
SCS Eng

Prepared by:
Precision Sampling, Inc.
Richmond, CA

Field Work Dates:
August 25, 2007

Prepared By:
PRECISION SAMPLING INC.
1081 Essex Avenue, Richmond, CA 94801 Phone: 510-237-4575 Fax: 510-237-4574

Prepared By:
PRECISION SAMPLING INC.
1081 Essex Avenue, Richmond, CA 94801 Phone: 510-237-4575 Fax: 510-237-4574

1.0 Project Summary

Location:	Friesman Road	**Dates:**	August 25, 2007
City:	Livermore, CA	**Rig:**	CP3
Client:	SCS Eng	**Contact:**	Ted

CPT Soundings:	3	**Depths:**	85.00	
Dissipations:	2	**Depths:**	Var	**Approx GWT: 22**

1.1 Field Equipment and Procedures

The Cone Penetration Tests were completed by Precision Sampling using a digital cone penetrometer. Borings were completed with Precisions 25-30 Ton CPT Rig. All soundings were conducted in accordance with ASTM standards (D 5778 – 95 (Reapproved 2000)).

The penetration data was collected using the following parameters:

- Tip Resistance (Qc)
- Sleeve Friction (Fs)
- Pore Pressure (Ut)

These and other parameters were collected, calculated and printed in real time in the field. All data was also stored in digital format on the field computer. And backed up at our main office.

Baseline readings were collected before and after soundings in order to monitor cone electronics. Baseline data is stored in each log file in the event it is needed. Baseline monitoring assures proper cone operation.

When soil conditions permitted, an expedient Static Pore Pressure Dissipation Test was performed to determine an estimated depth to ground water (GWT). See section 1.22 for further explanation of the Dissipation Test. The estimated GWT was used in post processing to calculate "Effective Overburden" and many other subsequent soil paramters (see Appendix "Formulas and Calculations").

1.2 Interpretation

CPT measurements during cone penetration include cone bearing (q_c), sleeve friction (fs), and dynamic pore water pressure (u). Using these three measured parameters a number of geotechnical parameters can be calculated based on previous correlation studies. See Formulas and Calculations for further details.

The calculated parameters are available in both graphical and tabular form in the appendix of this report under "Project Data". Draft copies of the graphs were available in real time in the field as reference.

1.21 Soil classification

A general observation of the measured parameters can be loosely used to identify soil types*. The following table is a rudimentary guideline for basic soil type evaluations:

	Sand	Clay
Cone Bearing (q_c)	High	Low
Friction Ratio (f_s/q_s)	Low	High
Pore water pressure (u)	Low	High

*Soil conditions may very regionally and can affect how these parameters respond.

More in-depth soil type correlations have been empirically evaluated over the years. Experts have agreed on two primary methods of classification:

1. Classification based on Friction Ratio
2. Classification based on the Pore Pressure Parameter (Bq)

Friction ratio is the ratio of Sleeve Friction to Corrected Tip Resistance.

Bq, The Pore Pressure Paramter, is the ratio of the measured pore pressure between the tip and the sleeve and the Corrected Tip resistance normalized to Effective Overburden.

Soil behavior classifcations based on either Friction Ratio or Bq plotted against total tip resistance (normalized or not) provide the lithological definitions of CPT Data Outputs.

Unless otherwise specified, the stratigraphies generated from this project's data were classified using the 1986 Friction Ratio Classification. In addition to having the most soil behavior types (twelve), this classification is best suited for general investigations when little other site specific data is available.

All four classification charts are included in the appendix of this report for reference.

The soil classifications are represented graphically on the far right of the log graphs. The resolution of classification zones is limited by the graphing software, so several zones may be combined on the graph and labeled with nomenclature other than the 12 accepted soil types, i.e. Interbedded, Silt Mix, etc. If very thin lenses or zones need to be resolved, the tabular data should be consulted because it generates a soil behavior type classification for approximately every 2cm of data. It is important to bear in mind that the graphical representation of the data is really just a visual aid for preliminary interpretation. Because of their higher resolution levels and more complex parameter analysis, the heart of the data is in the tabular files

1.22 Unit Weight

Soil density or Unit Weight is a critical geotechnical parameter. There have been correlations made between Soil Behavior Type numbers and Unit Weight. Alternately an average value of 120 pcf can be used for preliminary evaluations. The tabular data parameters that are calculated from Unit Weight, such as Overburden, use this average. However, the specific Unit Weights that correlate to the SBT Fr number are included if more precise analysis is desired.

1.23 Hydrogeology

The predominant forces at work in the subsurface are as intimately affected by ground water as they are by mechanical properties of the soil. Many of the useful geotechnical paramaters gleened from CPT data are calculated, at least partially, from dynamic or static pore pressure readings. Additionally, one of CPT's common applications is in the environmental field. A conceptual understanding of groundwater movement is critical to any environmental site investigation.

While established Soil Type Correlations contain useful grain size information, the pore pressure sensor is the primary tool for collecting hydrogeological information. Any measurements of pore pressure are only relevant in context to where the Ground Water Table (GWT) begins. To estimate the depth to GWT, a Static Pore Pressure Dissipation Test must be performed.

The Static Pore Pressure Dissipation Test (hereafter simply "Dissipation Test") is essential to calculating GWT, but how rapidly the test is completed is a function of Hydraulic Conductivity. During penetration the pore pressure sensor measures "dynamic" pore pressure, which varies depending on mechanical properties of the soil. When penetration stops, the disrupted pore space begins to equillibrate back to its "normal" pre-penetration conditions. The equillibrium pore pressure is achieved when all excess dynamic pore pressure has dissipated. This equillibrium pore pressure (Po or Uo) is relative to the head of groundwater above the pore pressure sensor. In fact, Po scales linearly with depth at 2.3 ft/PSI. So if a dissipation test were performed at 28 ft BGS, and the static pore pressure equillibrated to Po=9.5 PSI, then 21.85 (9.5PSI*2.3ft/PSI) feet of hydrostatic head can be assumed to exist above the depth where the test was taken, putting the GWT at 28-21.85=6.15ft. This method of GWT calculation depends on in-situ vertical distribution of hydrostatic pressure. Perched zones and confined aquifers could affect the final outcome and should be considered when dissipation data differs from regional well data.

The estimated GWT is also indicated on the log graphs by a small blue triangle, and the theoretical equillibrium pore pressure is indicated below the GWT with a dotted blue "hydroline". The relationship of the dynamic pore pressure to this hydroline can be used in soil classification (as mentioned in section 1.21), or can be used to identify "productive" zones in terms of environmental water sampling.

The slope of the dissipation curve (or rate of equilization) is relative to the coeffecient of consolidation for the soil. This parameter, in addition to being an important geotechnical parameter, is related to the coeffecient of the soil's permeability. The consequence of this relationship is that the type of soil chosen in which to perform a dissipation test greatly effects the time necessary for the pore pressure to equillibrate. If the primary purpose of the dissipation test is to determine GWT, it is not an effecient use of field time to perform the test in low permeability soils. Some clays can take days to fully equillibrate, so unless the specific consolidation and permeability properties of that particular zone are necessary, it is not advisable to wait. Sands tend to equillibrate very quickly and are typically chosen for rapid dissipation tests.

2.0 Electronic Piezocone (CPTU) Specifications

Cone

- 20-ton digital cone (thermal sprayed tungsten carbide coating)
- Strain gauge load cell measurement
- Outside diameter: 1.6" - 1.75"
- Temperature compensated
- Calibrated against a NIST standard

Tip Resistance

- Tip area: 10-15 cm^2
- Rated Range: 33000 lb
- Apical angle: 60°
- Frequency of measurement: 2-4 cm
- Measured data: Force / base area = q_c

Friction

- Surface area: 150 cm^2
- Rated Range: 5700 lb
- Location: behind pore pressure element (U2 position)
- End area ratio: 0.85
- Measured independently of cone tip
- Frequency of measurement: 2-4 cm
- Measured data: Force / surface area = f_s

Pore Pressure

- Rated Range: 500 psi
- Location: Behind tip (U_2 position)
- Composition: Polypropylene porous plastic (5mm thickness)
- Saturation liquid: Glycerine Gel
- Saturation method: High vacuum with heat and vibration
- Measured data: U – Measured pore pressure (dynamic)

U_o – Equilibrium pore pressure (After Static Dissipation)

- Frequency of measurement: 2-4 cm
- Pressure changes are measured with a diaphragm type electronic pressure

Prepared By:
PRECISION SAMPLING INC.
1081 Essex Avenue, Richmond, CA 94801 Phone: 510-237-4575 Fax: 510-237-4574

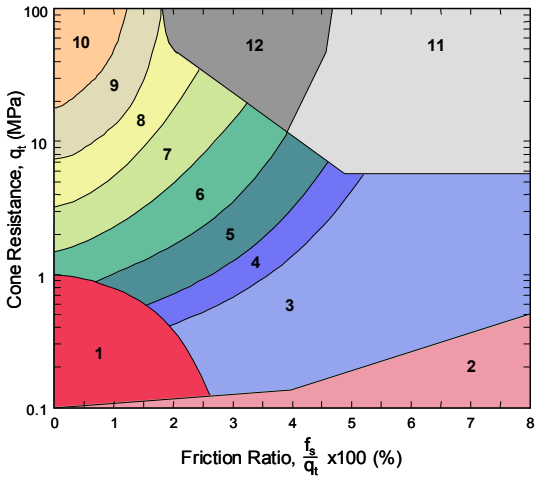
APPENDIX

Contents

Prepared By:
PRECISION SAMPLING INC.
1081 Essex Avenue, Richmond, CA 94801 Phone: 510-237-4575 Fax: 510-237-4574

Soil Classifications Based on Friction Ratio

1986 Corrected Tip Resistance (Non-Normalized)



Zone	Soil Behavior Type
1	Sensitive, Fine Grained
2	Organic Material
3	Clay
4	Silty Clay to Clay
5	Clayey Silt to Silty Clay
6	Sandy Silt to Clayey Silt
7	Silty Sand to Sandy Silt
8	Sand to Silty Sand
9	Sand
10	Gravelly Sand to Sand
11	Very Stiff Fine Grained*
12	Sand to Clayey Sand*

*Overconsolidated or cemented

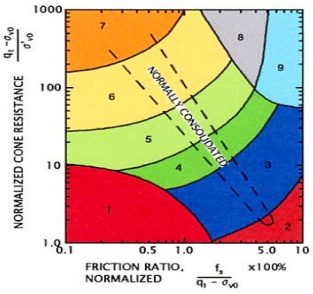
1990 Normalized Tip Resistance

CPT Soil Classification Legend

Zone	Q_t/N	Description
1	2	Sensitive, Fine Grained
2	1	Organic Soils-Peats
3	1.5	Clays-Clay to Silty Clay
4	2	Silt Mixtures-Clayey Silt to Silty Clay
5	3	Sand Mixtures-Silty Sand to Sandy Silt
6	4.5	Sands-Clean Sand to Silty Sand
7	6	Gravelly Sand to Sand
8	1	Very Stiff Sand to Clayey Sand*
9	2	Very Stiff, Fine Grained*

(*) Heavily Overconsolidated or Cemented

Normalized Friction Ratio Classification Chart



(Ref. Robertson, 1990)

Coefficient of Permeability (cm/s)

Zone	Description	Permeability
1	Sensitive Fines	10^{-5}
2	Organic Soils-Peats	10^{-5}
3	Clays	10^{-7}
4	Silt Mixtures	10^{-6}
5	Sand Mixtures	10^{-4}
6	Sands	10^{-2}
7	Gravelly Sands	10^{-1}
8	Very Stiff Sands	10^{-5}
9	Very Stiff Fines	10^{-6}

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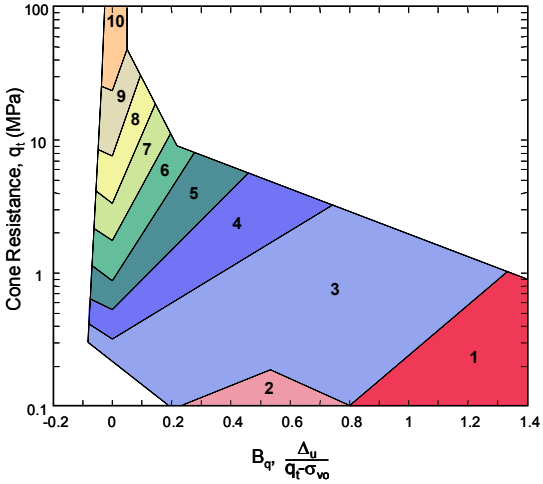
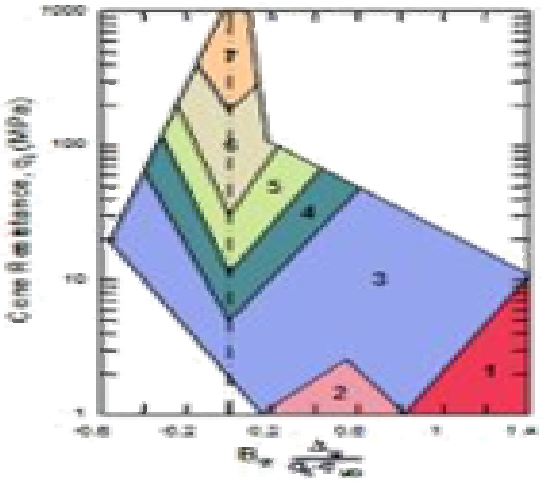
Soil Classifications based on Pore Pressure Paramater (Bq)





1986 (Non-Normalized Tip Resistance) **1990 (Normalized Tip Resistance)**

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References

Robertson, P.K. and Campanella, R.G., 1989. Guidelines for geotechnical design using the cone penetrometer test and CPT with pore pressure measurement. Hogentogler & Company, Inc., Columbia, Maryland.

Robertson, P.K. and Campanella, R.G., 1990. Guidelines for Use, Interpretation and Application of the CPT and CPTU. UBC, Soil Mechanics Series No. 105, Civil Engineering Department, Vancouver, B.C.

Robertson et al, 1999. An approach to evaluation of field CPTU dissipation data in overconsolidated fine-grained soils. Canadian Geotechnical Journal, v. 36: 369-381.

Lunne, T., Robertson, P.K., and Powell, J.J.M. Cone Penetration Testing in Geotechnical Practice. E & FN Spon, London EC4P 4EE

ASTM 2000. Standard Test Method for Performing Electronic Friction Cone and Piezocone Penetration Testing of Soils. Annual Book of ASTM Standards, ASTM West Conshohocken, PA.

Frank Syms - Bechtel Corp (Savannah River Site), 2001. F. Syms 04 December 2003

Fomulas and Calculations

Corrected Tip Stress

$$q_t = q_c + u_2 \times (1 - a)$$

Pore Pressure Parameter

$$B_q = \frac{\Delta u}{q_t - \sigma_{vo}}$$

Friction Ratio

$$R_f = \frac{f_s}{q_t} \times 100\%$$

Overburden

$$\sigma_{vo} = \sum_{i=1}^{n} \gamma_t \times h_i$$

Effective Overburden

$$\sigma'_{vo} = \sigma_{vo} - u_o$$

Over Consolidation Ratio

$$OCR = 0.33 \times \left(\frac{\Delta u}{\sigma'_{vo}} \right)^{1.42}$$

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'C (%)

$$FC = \left[\left(3.58 - \log(q_t)^2\right) + \left(1.43 + \log(R_f)^2\right) \right]^{1.765}$$

if FC > 100 or FC < 15
FC is undefined.

Equation used to calculate SPT

Equation:

if (SBT = 1, 5 or 12)	SPTRAT = 2.00
if (SBT = 2, 3 or 11)	SPTRAT = 1.00
if (SBT = 4)	SPTRAT = 1.50
if (SBT = 6)	SPTRAT = 2.50
if (SBT = 7)	SPTRAT = 3.00
if (SBT = 8)	SPTRAT = 4.00
if (SBT = 9)	SPTRAT = 5.00
if (SBT = 10)	SPTRAT = 6.00

$$N_{60} = \frac{q_t}{SPTRAT} \qquad \text{Where: } N_{60}Cor = N_{60} \times \sqrt{\left(\frac{1.0}{\sigma_{ve}}\right)}$$

SBT = Soil Behavior Type (Friction Ratio, Robertson 1986)
SPTRAT = SPT Ratio (used in calculation)
Q_t = Corrected Tip Stress (tsf)
σ_{ve} = Overburden (tsf)

Undrained Shear Strength

$$S_u = \frac{q_c - \sigma_{vo}}{N_k}$$

where $N_k = 15$

Friction Angle

$$\phi = \arctan\left[0.38 \times \log_{10}\left(\frac{q_c}{\sigma_{vo}}\right) + 0.1\right] \times \frac{180}{\pi}$$

Estimated Unit Weight

SBT	Approx. Unit Wt (lbs/cu ft)	kN/cu m
1	111.4	17.5
2	79.6	12.5
3	111.4	17.5
4	114.6	18.0
5	114.6	18.0
6	114.6	18.0
7	117.8	18.5
8	120.9	19.0
9	124.1	19.5
10	127.3	20.0
11	130.5	20.5
12	120.9	19.0

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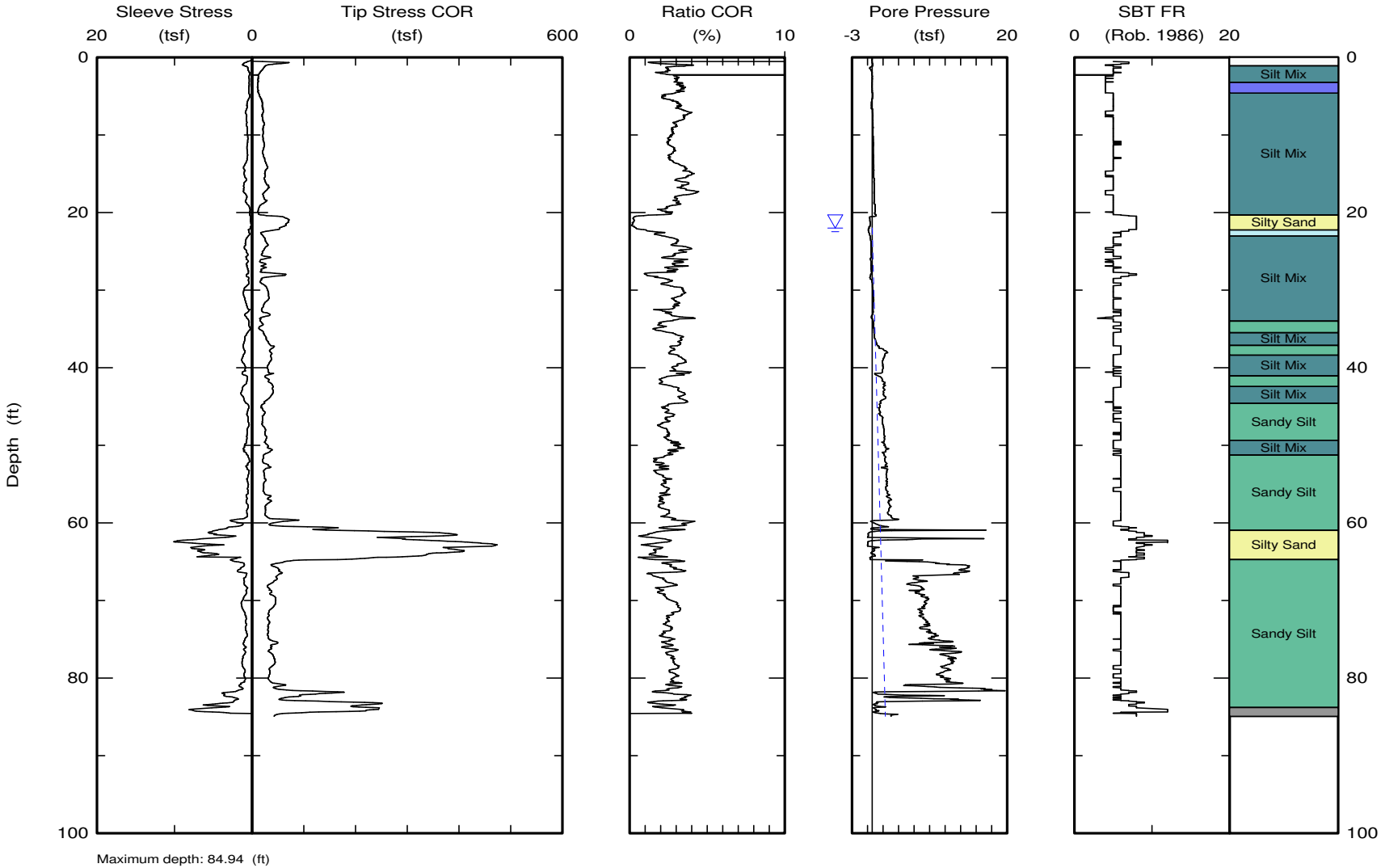
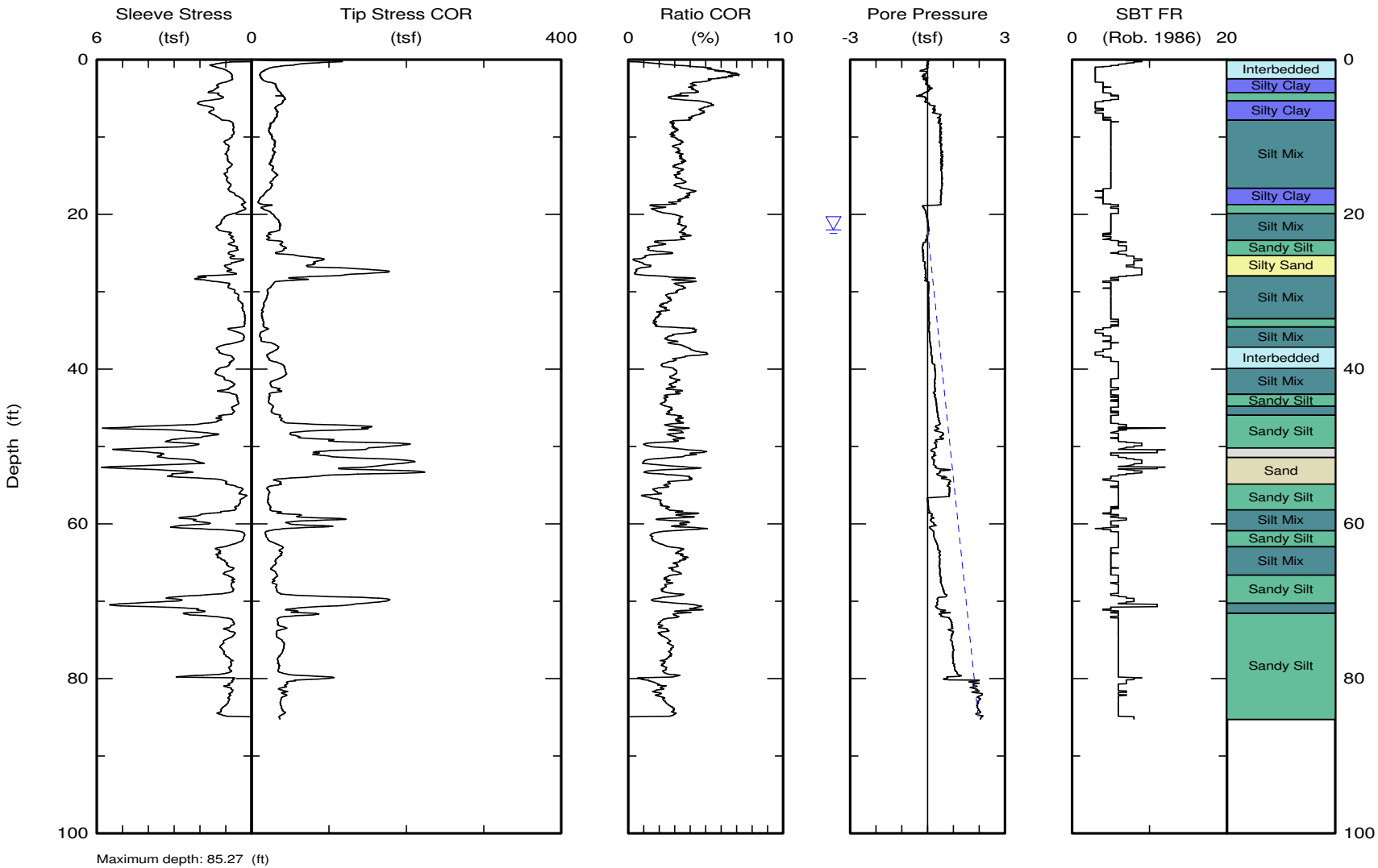
Precision Sampling, Inc. Richmond, CA 94801 (510) 812-1619 jacob@precisionsampling.com www.precisionsampling.com	Northing: Easting: Elevation:	Date: 21/Aug/2007 Test ID: PH1 Project: Friesman
	Client: SCS Job Site: Friesman Ranch	



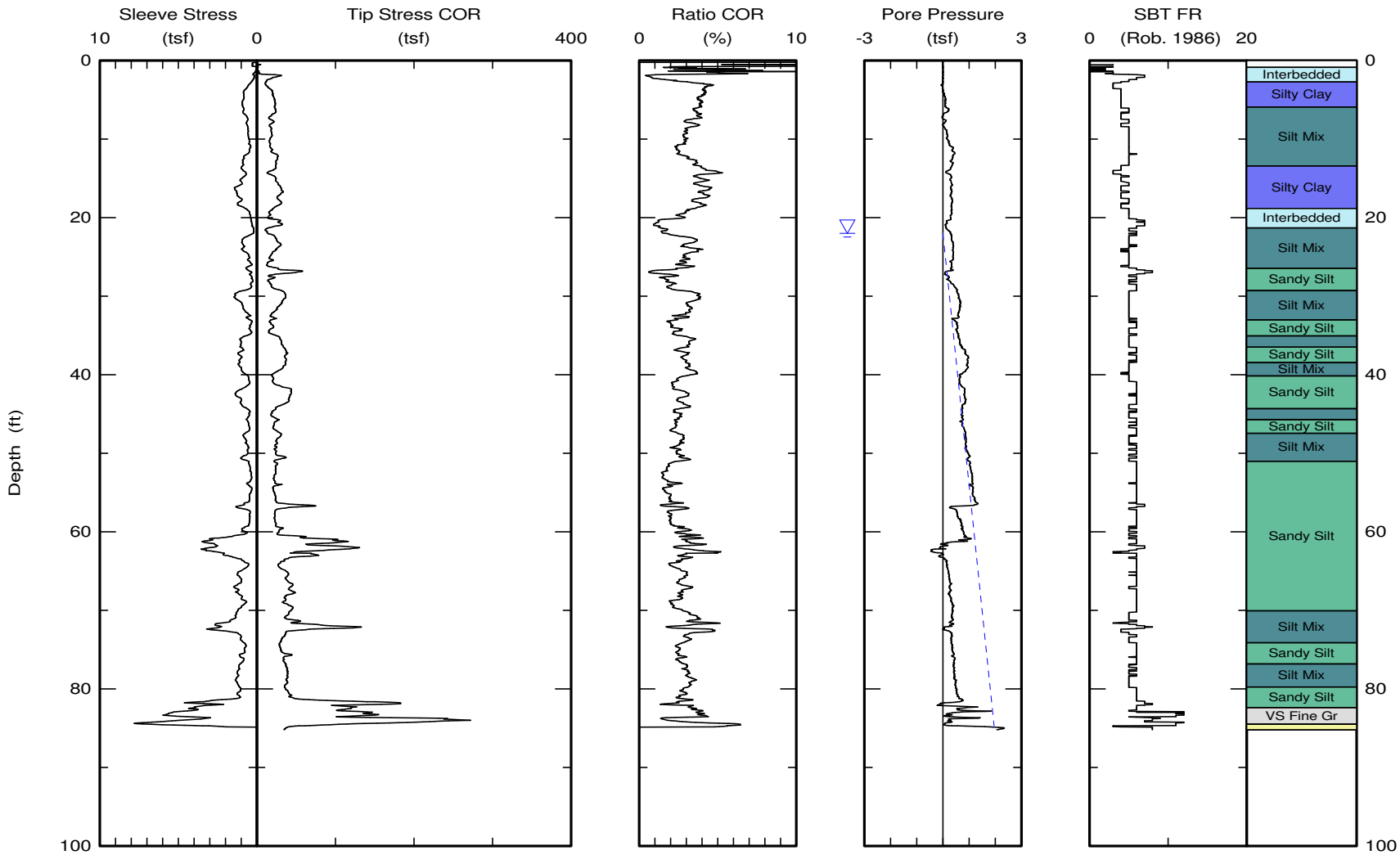
Precision Sampling, Inc. Richmond, CA 94801 (510) 812-1619 jacob@precisionsampling.com www.precisionsampling.com	Northing: Easting: Elevation:	Date: 21/Aug/2007 Test ID: PH2 Project: Friesman
	Client: SCS Job Site: Friesman Ranch	



Maximum depth: 85.27 (ft)

▽ Estimated Phreatic Surface

Precision Sampling, Inc. Richmond, CA 94801 (510) 812-1619 jacob@precisionsampling.com www.precisionsampling.com	Northing: Easting: Elevation:	Date: 22/Aug/2007 Test ID: PH3 Project: Friesman
	Client: SCS Job Site: Friesman Ranch	



Maximum depth: 85.21 (ft)

▽ Estimated Phreatic Surface

APPENDIX E

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION (8/21, 22, 23/2007)

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: #01203087.04; Freisman Ranch	Date Sampled: 08/21/07
		Date Received: 08/21/07
	Client Contact: Andy Chan	Date Reported: 08/22/07
	Client P.O.:	Date Completed: 08/22/07

WorkOrder: 0708580

August 22, 2007

Dear Andy:

Enclosed are:

1). the results of **3** analyzed samples from your **#01203087.04; 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

RUSH

CHAIN OF CUSTODY RECORD 0708580

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: 2

PAGE 1 OF 1

TURNAROUND TIME REQUIRED: 24hr

___5-Day ___3-Day ___Immediate ___Other

PROJECT NUMBER: 01203087.04

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

RUSH

LAB USE ONLY

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	8015 TPH-g, TPH-d	Full 8260	6010 Dissolved Lead							
+10	PH-1 GW	H_2O	8-21-07	Various	4 VOAs w/ HCl	TPH-d w/ silica gel cleanup	X	X	X							
+5	PH-2 GW	↓	↓	↓	↓	same	X	X	X							

NOTES:

* cc results to Ted Sison via email.
* Sample for metals was not filtered or preserved in field.

SAMPLE CONDITION UPON RECEIPT:

ICE/t° 20.2
GOOD CONDITION ✓
HEAD SPACE ABSENT ___
DECHLORINATED IN LAB ___
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB ___

PRESERVATION: VOAS | O&G | METALS | OTHER

RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:	RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
	8-21-07		8/21/07				
COMPANY: SCS	TIME: 5:39	COMPANY: MAI	TIME: 5:40pm	COMPANY:	TIME:	COMPANY:	TIME:

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0708580 **ClientID: SCSD**

☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

Report to:
Andy Chan
SCS Engineers
6601 Koll Center Pkwy, Ste 140
Pleasanton, CA 94566

Email: achan@scsengineers.com
TEL: (925) 426-008 FAX: (925) 426-070
ProjectNo: #01203087.04; Freisman Ranch
PO:

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

Requested TAT: 1 day

Date Received **08/21/2007**
Date Printed: **08/21/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0708580-001	PH-1GW	Water	8/21/2007	☐	B	A	C	C								
0708580-002	PH-2GW	Water	8/21/2007	☐	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: 001A, 002A contain testgroup.

Prepared by: Ana Venegas

Comments: 24hr rush cc results to Ted Sison via email

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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Sample Receipt Checklist

Client Name: **SCS Engineers**
Date and Time Received: **8/21/2007 6:00:01 PM**

Project Name: **#01203087.04; Freisman Ranch**
Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **0708580** Matrix Water
Carrier: Client Drop-In

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 20.2°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

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SCS Engineers	Client Project ID: #01203087.04; Freisman Ranch	Date Sampled: 08/21/07
		Date Received: 08/21/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Andy Chan	Date Extracted: 08/21/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 08/21/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0708580

Lab ID	0708580-001B
Client ID	PH-1GW
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:	105	%SS2:	100
%SS3:	100		

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; J) analyte detected below quantitation limits; 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: #01203087.04; Freisman Ranch	Date Sampled: 08/21/07
		Date Received: 08/21/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Andy Chan	Date Extracted: 08/21/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 08/21/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0708580

Lab ID	0708580-002B
Client ID	PH-2GW
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:	103	%SS2:	102
%SS3:	100		

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; J) analyte detected below quantitation limits; 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: #01203087.04; Freisman Ranch	Date Sampled: 08/21/07
		Date Received: 08/21/07
	Client Contact: Andy Chan	Date Extracted: 08/22/07
	Client P.O.:	Date Analyzed 08/22/07

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0708580

Lab ID	Client ID	Matrix	TPH(g)	TPH(ss)	DF	% SS
0708580-001A	PH-1GW	W	ND,i	ND	1	105
0708580-002A	PH-2GW	W	ND,i	ND	1	105
0708580-003A	QCTB	W	ND	ND	1	105

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 due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01203087.04; Freisman Ranch	Date Sampled: 08/21/07
		Date Received: 08/21/07
	Client Contact: Andy Chan	Date Extracted: 08/21/07
	Client P.O.:	Date Analyzed 08/21/07

Lead by ICP-MS*

Extraction method E200.8 Analytical methods E200.8 Work Order: 0708580

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS
0708580-001C	PH-1GW	W	DISS.	ND	1	N/A
0708580-002C	PH-2GW	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	TOTAL^	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.

TOTAL^ = acid digestion.

WET = Waste Extraction Test (STLC).

DI WET = Waste Extraction Test using de-ionized water.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TOTAL^ 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: #01203087.04; Freisman Ranch	Date Sampled: 08/21/07
6601 Koll Center Pkwy, Ste 140		Date Received: 08/21/07
Pleasanton, CA 94566	Client Contact: Andy Chan	Date Extracted: 08/21/07
	Client P.O.:	Date Analyzed 08/21/07

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

Extraction method SW3510C/3630C Analytical methods SW8015C Work Order: 0708580

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0708580-001A	PH-1GW	W	ND,i	1	120
0708580-002A	PH-2GW	W	ND,i	1	108

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; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0708580

EPA Method SW8260B	Extraction SW5030B	BatchID: 30048	Spiked Sample ID: 0708475-001c

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	109	106	3.05	104	106	2.81	70 - 130	30	70 - 130	30
Benzene	ND	10	97.5	101	3.42	96.7	99.1	2.46	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	96.4	96.6	0.251	112	106	5.17	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	104	104	0	102	103	1.04	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	117	115	1.15	110	111	1.55	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	103	105	1.33	101	103	2.54	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	125	128	2.60	128	129	0.175	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	119	120	0.461	114	116	1.40	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	113	112	0.460	108	111	2.43	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	113	112	1.39	121	126	4.04	70 - 130	30	70 - 130	30
Toluene	ND	10	105	104	0.897	97	98.2	1.25	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	96.4	97.3	0.838	94.4	96.7	2.42	70 - 130	30	70 - 130	30
%SS1:	118	10	97	98	0.927	98	98	0	70 - 130	30	70 - 130	30
%SS2:	97	10	107	104	2.82	99	99	0	70 - 130	30	70 - 130	30
%SS3:	94	10	99	99	0	95	96	1.45	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 30048 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708580-001B	08/21/07	08/21/07	08/21/07 8:38 PM	0708580-002B	08/21/07	08/21/07	08/21/07 9:26 PM

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

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

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

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

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

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0708580

EPA Method SW8021B/8015Cm Extraction SW5030B BatchID: 30046 Spiked Sample ID: 0708475-001A

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	100	92	8.39	105	107	1.37	70 - 130	30	70 - 130	30
MTBE	ND	10	110	101	8.39	80.1	95.3	17.3	70 - 130	30	70 - 130	30
Benzene	ND	10	94.9	92.7	2.39	98.9	93.4	5.79	70 - 130	30	70 - 130	30
Toluene	ND	10	108	106	1.68	113	105	7.37	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	105	100	4.21	110	104	6.05	70 - 130	30	70 - 130	30
Xylenes	ND	30	117	110	5.88	113	113	0	70 - 130	30	70 - 130	30
%SS:	110	10	96	100	3.86	98	95	3.53	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 30046 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708580-001A	08/21/07	08/22/07	08/22/07 2:00 AM	0708580-002A	08/21/07	08/22/07	08/22/07 3:01 AM
0708580-003A	08/21/07	08/22/07	08/22/07 3:32 AM				

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0708580

EPA Method E200.8 **Extraction E200.8** **BatchID: 30081** **Spiked Sample ID: 0708519-001A**

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
Lead	0.68	10	102	101	0.834	104	107	2.57	70 - 130	20	80 - 120	20
%SS:	103	750	103	100	2.76	97	98	1.01	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 30081 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708580-001C	08/21/07	08/21/07	08/21/07 8:57 PM	0708580-002C	08/21/07	08/21/07	08/21/07 9:02 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.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0708580

EPA Method SW8015C **Extraction SW3510C/3630C** **BatchID: 30092** **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	124	125	0.108	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	118	120	1.64	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 30092 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708580-001A	08/21/07	08/21/07	08/21/07 10:42 PM	0708580-002A	08/21/07	08/21/07	08/21/07 9:34 PM

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

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

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

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

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

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SCS Engineers 6601 Koll Center Parkway Suite 140 Pleasanton, CA 94566	Client Project ID: #0123087.04; Freisman Ranch GW Transact Investigat	Date Sampled: 08/22/07
		Date Received: 08/22/07
	Client Contact: Steve Clements	Date Reported: 08/23/07
	Client P.O.:	Date Completed: 08/23/07

WorkOrder: 0708643

August 23, 2007

Dear Steve:

Enclosed are:

1). the results of **6** analyzed samples from your **#0123087.04; Freisman Ranch GW Transact Investigat 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

07098643 SCSP

CHAIN OF CUSTODY RECORD

RUSH

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: 6

PAGE 1 OF 1

TURNAROUND TIME REQUIRED: 24 hr

___5-Day ___3-Day ___Immediate ___Other

PROJECT NUMBER: 01203087.04

PROJECT MANAGER: S. Clements

PROJECT NAME: Freisman Ranch GW Transect Investigation

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: 8015 TPH-g, ss, d	Full 8260	6010 Dissolved Lead	6010 Total Lead	5035 8260 per T-S					LAB USE ONLY
	PH-3GW, 23'	H20	8-22-07	various	4 VOAS w/ HCl	w/silica gel cleanup for d	X	X	X							
	SCTB	↓		2 VOAS	HCl			X								
	PH-3GW, 85'	↓		various	4 VOAS w/ HCl	w/silica gel cleanup for d	X	X	X							
	PH-3S, 17'	soil		2 Encors 1 Jar	—		X	~~X~~		X	X					
	PH-3S, 78'	↓		↓	—		X	~~X~~		X	X					
	PH-1S, 19'	↓	↓	↓	—		X	~~X~~		X	X					

ICE / t° 9.6°C ✓
GOOD CONDITION ___
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB ___
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB ___

PRESERVATION: VOAS | O & G | METALS | OTHER

NOTES:
* Please cc results to tsison@scsengineers.com
GW samples for metals were not filtered or preserved in field.

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:	RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
	8-22-07		8-22-07				
COMPANY: SCS	TIME: 4:45	COMPANY: MAI	TIME: 4:45 pm	COMPANY:	TIME:	COMPANY:	TIME:

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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0708643 **ClientID: SCSP**

☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

Report to:
Steve Clements
SCS Engineers
6601 Koll Center Parkway Suite 140
Pleasanton, CA 94566
Email: sclements@scsengineers.com
TEL: (925) 426-008 FAX: (925) 426-070
ProjectNo: #0123087.04; Freisman Ranch GW Tra
PO:

Bill t
Steve Clements
SCS Engineers
6601 Koll Center Parkway Suite 140
Pleasanton, CA 94566

Requested TAT: 1 day

Date Received **08/22/2007**
Date Printed: **08/22/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0708643-001	PH-3GW, 23'	Water	8/22/2007	☐		B		A		C	C					
0708643-002	QCTB	Water	8/22/2007	☐		A										
0708643-003	PH-3 GW, 8S'	Water	8/22/2007	☐		B		A		C	C					
0708643-004	PH-3S,17'	Soil	8/22/2007	☐	B		A		A							
0708643-005	PH-3S, 78'	Soil	8/22/2007	☐	B		A		A							
0708643-006	PH-1S, 19'	Soil	8/22/2007	☐	B		A		A							

Test Legend:

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

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

Prepared by: Chloe Lam

Comments: cc to tsison@scsengineers.com

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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Sample Receipt Checklist

Client Name: **SCS Engineers** Date and Time Received: **8/22/2007 6:30:26 PM**

Project Name: **#0123087.04; Freisman Ranch GW Transact Invest** Checklist completed and reviewed by: Chloe Lam

WorkOrder N°: **0708643** Matrix Soil/Water Carrier: Client Drop-In

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 9.6°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

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SCS Engineers	Client Project ID: #0123087.04; Freisman Ranch GW Transact Investigat	Date Sampled: 08/22/07
		Date Received: 08/22/07
6601 Koll Center Parkway Suite 140	Client Contact: Steve Clements	Date Extracted: 08/22/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 08/23/07

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

Extraction Method: SW5035 Analytical Method: SW8260B Work Order: 0708643

Lab ID	0708643-004B
Client ID	PH-3S,17'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<0.81	20	0.05	Acrolein (Propenal)	ND<0.81	20	0.05
Acrylonitrile	ND<0.32	20	0.02	tert-Amyl methyl ether (TAME)	ND<0.081	20	0.005
Benzene	ND<0.081	20	0.005	Bromobenzene	ND<0.081	20	0.005
Bromochloromethane	ND<0.081	20	0.005	Bromodichloromethane	ND<0.081	20	0.005
Bromoform	ND<0.081	20	0.005	Bromomethane	ND<0.081	20	0.005
2-Butanone (MEK)	0.67	20	0.02	t-Butyl alcohol (TBA)	ND<0.81	20	0.05
n-Butyl benzene	0.65	20	0.005	sec-Butyl benzene	0.12	20	0.005
tert-Butyl benzene	ND<0.081	20	0.005	Carbon Disulfide	ND<0.081	20	0.005
Carbon Tetrachloride	ND<0.081	20	0.005	Chlorobenzene	ND<0.081	20	0.005
Chloroethane	ND<0.081	20	0.005	2-Chloroethyl Vinyl Ether	ND<0.16	20	0.01
Chloroform	ND<0.081	20	0.005	Chloromethane	ND<0.081	20	0.005
2-Chlorotoluene	ND<0.081	20	0.005	4-Chlorotoluene	ND<0.081	20	0.005
Dibromochloromethane	ND<0.081	20	0.005	1,2-Dibromo-3-chloropropane	ND<0.081	20	0.005
1,2-Dibromoethane (EDB)	ND<0.081	20	0.005	Dibromomethane	ND<0.081	20	0.005
1,2-Dichlorobenzene	ND<0.081	20	0.005	1,3-Dichlorobenzene	ND<0.081	20	0.005
1,4-Dichlorobenzene	ND<0.081	20	0.005	Dichlorodifluoromethane	ND<0.081	20	0.005
1,1-Dichloroethane	ND<0.081	20	0.005	1,2-Dichloroethane (1,2-DCA)	ND<0.081	20	0.005
1,1-Dichloroethene	ND<0.081	20	0.005	cis-1,2-Dichloroethene	ND<0.081	20	0.005
trans-1,2-Dichloroethene	ND<0.081	20	0.005	1,2-Dichloropropane	ND<0.081	20	0.005
1,3-Dichloropropane	ND<0.081	20	0.005	2,2-Dichloropropane	ND<0.081	20	0.005
1,1-Dichloropropene	ND<0.081	20	0.005	cis-1,3-Dichloropropene	ND<0.081	20	0.005
trans-1,3-Dichloropropene	ND<0.081	20	0.005	Diisopropyl ether (DIPE)	ND<0.081	20	0.005
Ethylbenzene	0.75	20	0.005	Ethyl tert-butyl ether (ETBE)	ND<0.081	20	0.005
Freon 113	ND<1.6	20	0.1	Hexachlorobutadiene	ND<0.081	20	0.005
Hexachloroethane	ND<0.081	20	0.005	2-Hexanone	ND<0.081	20	0.005
Isopropylbenzene	0.16	20	0.005	4-Isopropyl toluene	ND<0.081	20	0.005
Methyl-t-butyl ether (MTBE)	ND<0.081	20	0.005	Methylene chloride	ND<0.081	20	0.005
4-Methyl-2-pentanone (MIBK)	ND<0.081	20	0.005	Naphthalene	0.30	20	0.005
Nitrobenzene	ND<1.6	20	0.1	n-Propyl benzene	0.66	20	0.005
Styrene	ND<0.081	20	0.005	1,1,1,2-Tetrachloroethane	ND<0.081	20	0.005
1,1,2,2-Tetrachloroethane	ND<0.081	20	0.005	Tetrachloroethene	ND<0.081	20	0.005
Toluene	ND<0.081	20	0.005	1,2,3-Trichlorobenzene	ND<0.081	20	0.005
1,2,4-Trichlorobenzene	ND<0.081	20	0.005	1,1,1-Trichloroethane	ND<0.081	20	0.005
1,1,2-Trichloroethane	ND<0.081	20	0.005	Trichloroethene	ND<0.081	20	0.005
Trichlorofluoromethane	ND<0.081	20	0.005	1,2,3-Trichloropropane	ND<0.081	20	0.005
1,2,4-Trimethylbenzene	2.3	20	0.005	1,3,5-Trimethylbenzene	0.87	20	0.005
Vinyl Chloride	ND<0.081	20	0.005	Xylenes	0.88	20	0.005

Surrogate Recoveries (%)

%SS1:	102	%SS2:	92
%SS3:	81		

Comments: k

* 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; J) analyte detected below quantitation limits; 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: #0123087.04; Freisman Ranch GW Transact Investigat	Date Sampled: 08/22/07
		Date Received: 08/22/07
6601 Koll Center Parkway Suite 140	Client Contact: Steve Clements	Date Extracted: 08/22/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 08/23/07

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

Extraction Method: SW5035 Analytical Method: SW8260B Work Order: 0708643

Lab ID	0708643-005B
Client ID	PH-3S, 78'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<0.042	1.0	0.05	Acrolein (Propenal)	ND<0.042	1.0	0.05
Acrylonitrile	ND<0.017	1.0	0.02	tert-Amyl methyl ether (TAME)	ND<0.0042	1.0	0.005
Benzene	ND<0.0042	1.0	0.005	Bromobenzene	ND<0.0042	1.0	0.005
Bromochloromethane	ND<0.0042	1.0	0.005	Bromodichloromethane	ND<0.0042	1.0	0.005
Bromoform	ND<0.0042	1.0	0.005	Bromomethane	ND<0.0042	1.0	0.005
2-Butanone (MEK)	ND<0.017	1.0	0.02	t-Butyl alcohol (TBA)	ND<0.042	1.0	0.05
n-Butyl benzene	ND<0.0042	1.0	0.005	sec-Butyl benzene	ND<0.0042	1.0	0.005
tert-Butyl benzene	ND<0.0042	1.0	0.005	Carbon Disulfide	ND<0.0042	1.0	0.005
Carbon Tetrachloride	ND<0.0042	1.0	0.005	Chlorobenzene	ND<0.0042	1.0	0.005
Chloroethane	ND<0.0042	1.0	0.005	2-Chloroethyl Vinyl Ether	ND<0.0084	1.0	0.01
Chloroform	ND<0.0042	1.0	0.005	Chloromethane	ND<0.0042	1.0	0.005
2-Chlorotoluene	ND<0.0042	1.0	0.005	4-Chlorotoluene	ND<0.0042	1.0	0.005
Dibromochloromethane	ND<0.0042	1.0	0.005	1,2-Dibromo-3-chloropropane	ND<0.0042	1.0	0.005
1,2-Dibromoethane (EDB)	ND<0.0042	1.0	0.005	Dibromomethane	ND<0.0042	1.0	0.005
1,2-Dichlorobenzene	ND<0.0042	1.0	0.005	1,3-Dichlorobenzene	ND<0.0042	1.0	0.005
1,4-Dichlorobenzene	ND<0.0042	1.0	0.005	Dichlorodifluoromethane	ND<0.0042	1.0	0.005
1,1-Dichloroethane	ND<0.0042	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND<0.0042	1.0	0.005
1,1-Dichloroethene	ND<0.0042	1.0	0.005	cis-1,2-Dichloroethene	ND<0.0042	1.0	0.005
trans-1,2-Dichloroethene	ND<0.0042	1.0	0.005	1,2-Dichloropropane	ND<0.0042	1.0	0.005
1,3-Dichloropropane	ND<0.0042	1.0	0.005	2,2-Dichloropropane	ND<0.0042	1.0	0.005
1,1-Dichloropropene	ND<0.0042	1.0	0.005	cis-1,3-Dichloropropene	ND<0.0042	1.0	0.005
trans-1,3-Dichloropropene	ND<0.0042	1.0	0.005	Diisopropyl ether (DIPE)	ND<0.0042	1.0	0.005
Ethylbenzene	ND<0.0042	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND<0.0042	1.0	0.005
Freon 113	ND<0.084	1.0	0.1	Hexachlorobutadiene	ND<0.0042	1.0	0.005
Hexachloroethane	ND<0.0042	1.0	0.005	2-Hexanone	ND<0.0042	1.0	0.005
Isopropylbenzene	ND<0.0042	1.0	0.005	4-Isopropyl toluene	ND<0.0042	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND<0.0042	1.0	0.005	Methylene chloride	ND<0.0042	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND<0.0042	1.0	0.005	Naphthalene	ND<0.0042	1.0	0.005
Nitrobenzene	ND<0.084	1.0	0.1	n-Propyl benzene	ND<0.0042	1.0	0.005
Styrene	ND<0.0042	1.0	0.005	1,1,1,2-Tetrachloroethane	ND<0.0042	1.0	0.005
1,1,2,2-Tetrachloroethane	ND<0.0042	1.0	0.005	Tetrachloroethene	ND<0.0042	1.0	0.005
Toluene	ND<0.0042	1.0	0.005	1,2,3-Trichlorobenzene	ND<0.0042	1.0	0.005
1,2,4-Trichlorobenzene	ND<0.0042	1.0	0.005	1,1,1-Trichloroethane	ND<0.0042	1.0	0.005
1,1,2-Trichloroethane	ND<0.0042	1.0	0.005	Trichloroethene	ND<0.0042	1.0	0.005
Trichlorofluoromethane	ND<0.0042	1.0	0.005	1,2,3-Trichloropropane	ND<0.0042	1.0	0.005
1,2,4-Trimethylbenzene	ND<0.0042	1.0	0.005	1,3,5-Trimethylbenzene	ND<0.0042	1.0	0.005
Vinyl Chloride	ND<0.0042	1.0	0.005	Xylenes	ND<0.0042	1.0	0.005

Surrogate Recoveries (%)

%SS1:	83	%SS2:	95
%SS3:	86		

Comments: k

* 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; J) analyte detected below quantitation limits; 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: #0123087.04; Freisman Ranch GW Transact Investigat	Date Sampled: 08/22/07
		Date Received: 08/22/07
6601 Koll Center Parkway Suite 140	Client Contact: Steve Clements	Date Extracted: 08/22/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 08/23/07

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

Extraction Method: SW5035 Analytical Method: SW8260B Work Order: 0708643

Lab ID	0708643-006B
Client ID	PH-1S, 19'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<10	200	0.05	Acrolein (Propenal)	ND<10	200	0.05
Acrylonitrile	ND<4.1	200	0.02	tert-Amyl methyl ether (TAME)	ND<1.0	200	0.005
Benzene	ND<1.0	200	0.005	Bromobenzene	ND<1.0	200	0.005
Bromochloromethane	ND<1.0	200	0.005	Bromodichloromethane	ND<1.0	200	0.005
Bromoform	ND<1.0	200	0.005	Bromomethane	ND<1.0	200	0.005
2-Butanone (MEK)	ND<4.1	200	0.02	t-Butyl alcohol (TBA)	ND<10	200	0.05
n-Butyl benzene	8.0	200	0.005	sec-Butyl benzene	1.4	200	0.005
tert-Butyl benzene	ND<1.0	200	0.005	Carbon Disulfide	ND<1.0	200	0.005
Carbon Tetrachloride	ND<1.0	200	0.005	Chlorobenzene	ND<1.0	200	0.005
Chloroethane	ND<1.0	200	0.005	2-Chloroethyl Vinyl Ether	ND<2.0	200	0.01
Chloroform	ND<1.0	200	0.005	Chloromethane	ND<1.0	200	0.005
2-Chlorotoluene	ND<1.0	200	0.005	4-Chlorotoluene	ND<1.0	200	0.005
Dibromochloromethane	ND<1.0	200	0.005	1,2-Dibromo-3-chloropropane	ND<1.0	200	0.005
1,2-Dibromoethane (EDB)	ND<1.0	200	0.005	Dibromomethane	ND<1.0	200	0.005
1,2-Dichlorobenzene	ND<1.0	200	0.005	1,3-Dichlorobenzene	ND<1.0	200	0.005
1,4-Dichlorobenzene	ND<1.0	200	0.005	Dichlorodifluoromethane	ND<1.0	200	0.005
1,1-Dichloroethane	ND<1.0	200	0.005	1,2-Dichloroethane (1,2-DCA)	ND<1.0	200	0.005
1,1-Dichloroethene	ND<1.0	200	0.005	cis-1,2-Dichloroethene	ND<1.0	200	0.005
trans-1,2-Dichloroethene	ND<1.0	200	0.005	1,2-Dichloropropane	ND<1.0	200	0.005
1,3-Dichloropropane	ND<1.0	200	0.005	2,2-Dichloropropane	ND<1.0	200	0.005
1,1-Dichloropropene	ND<1.0	200	0.005	cis-1,3-Dichloropropene	ND<1.0	200	0.005
trans-1,3-Dichloropropene	ND<1.0	200	0.005	Diisopropyl ether (DIPE)	ND<1.0	200	0.005
Ethylbenzene	4.9	200	0.005	Ethyl tert-butyl ether (ETBE)	ND<1.0	200	0.005
Freon 113	ND<20	200	0.1	Hexachlorobutadiene	ND<1.0	200	0.005
Hexachloroethane	ND<1.0	200	0.005	2-Hexanone	ND<1.0	200	0.005
Isopropylbenzene	1.8	200	0.005	4-Isopropyl toluene	ND<1.0	200	0.005
Methyl-t-butyl ether (MTBE)	ND<1.0	200	0.005	Methylene chloride	ND<1.0	200	0.005
4-Methyl-2-pentanone (MIBK)	ND<1.0	200	0.005	Naphthalene	3.5	200	0.005
Nitrobenzene	ND<20	200	0.1	n-Propyl benzene	7.2	200	0.005
Styrene	ND<1.0	200	0.005	1,1,1,2-Tetrachloroethane	ND<1.0	200	0.005
1,1,2,2-Tetrachloroethane	ND<1.0	200	0.005	Tetrachloroethene	ND<1.0	200	0.005
Toluene	ND<1.0	200	0.005	1,2,3-Trichlorobenzene	ND<1.0	200	0.005
1,2,4-Trichlorobenzene	ND<1.0	200	0.005	1,1,1-Trichloroethane	ND<1.0	200	0.005
1,1,2-Trichloroethane	ND<1.0	200	0.005	Trichloroethene	ND<1.0	200	0.005
Trichlorofluoromethane	ND<1.0	200	0.005	1,2,3-Trichloropropane	ND<1.0	200	0.005
1,2,4-Trimethylbenzene	12	200	0.005	1,3,5-Trimethylbenzene	12	200	0.005
Vinyl Chloride	ND<1.0	200	0.005	Xylenes	ND<1.0	200	0.005

Surrogate Recoveries (%)

%SS1:	86	%SS2:	94
%SS3:	84		

Comments: k

* 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; J) analyte detected below quantitation limits; 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: #0123087.04; Freisman Ranch GW Transact Investigat	Date Sampled: 08/22/07
		Date Received: 08/22/07
6601 Koll Center Parkway Suite 140	Client Contact: Steve Clements	Date Extracted: 08/22/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 08/22/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0708643

Lab ID	0708643-001B
Client ID	PH-3GW, 23'
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)	0.50	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:	103
%SS3:	102		

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; J) analyte detected below quantitation limits; 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: #0123087.04; Freisman Ranch GW Transact Investigat	Date Sampled: 08/22/07
		Date Received: 08/22/07
6601 Koll Center Parkway Suite 140	Client Contact: Steve Clements	Date Extracted: 08/22/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 08/22/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0708643

Lab ID	0708643-002A
Client ID	QCTB
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:	105
%SS3:	101		

Comments:

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

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

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; 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: #0123087.04; Freisman Ranch GW Transact Investigat	Date Sampled: 08/22/07
		Date Received: 08/22/07
6601 Koll Center Parkway Suite 140	Client Contact: Steve Clements	Date Extracted: 08/22/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed 08/22/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0708643

Lab ID	0708643-003B
Client ID	PH-3 GW, 8S'
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	0.61	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	0.57	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:	105	%SS2:	100
%SS3:	99		

Comments:

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

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

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; 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: #0123087.04; Freisman Ranch GW Transact Investigat	Date Sampled: 08/22/07
6601 Koll Center Parkway Suite 140		Date Received: 08/22/07
Pleasanton, CA 94566	Client Contact: Steve Clements	Date Extracted: 08/22/07-08/23/07
	Client P.O.:	Date Analyzed 08/23/07

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

Extraction method: SW5030B Analytical methods: SW8015Cm Work Order: 0708643

Lab ID	Client ID	Matrix	TPH(g)	TPH(ss)	DF	% SS
0708643-001A	PH-3GW, 23'	W	ND	ND	1	101
0708643-003A	PH-3 GW, 8S'	W	ND	ND	1	100
0708643-004A	PH-3S,17'	S	120,b,m	44	20	108
0708643-005A	PH-3S, 78'	S	ND	ND	1	78
0708643-006A	PH-1S, 19'	S	990,b,m	420	20	92

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

DHS ELAP Certification N° 1644

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SCS Engineers	Client Project ID: #0123087.04; Freisman Ranch GW Transact Investigat	Date Sampled: 08/22/07
6601 Koll Center Parkway Suite 140		Date Received: 08/22/07
Pleasanton, CA 94566	Client Contact: Steve Clements	Date Extracted: 08/22/07
	Client P.O.:	Date Analyzed: 08/23/07

Lead by ICP*

Extraction method: SW3050B Analytical methods: 6010C Work Order: 0708643

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS
0708643-004A	PH-3S,17'	S	TOTAL^	7.6	1	109
0708643-005A	PH-3S, 78'	S	TOTAL^	7.7	1	104
0708643-006A	PH-1S, 19'	S	TOTAL^	8.1	1	102

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

TOTAL^ = acid digestion.

WET = Waste Extraction Test (STLC).

DI WET = Waste Extraction Test using de-ionized water.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TOTAL^ 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

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SCS Engineers	Client Project ID: #0123087.04; Freisman Ranch GW Transact Investigat	Date Sampled: 08/22/07
6601 Koll Center Parkway Suite 140		Date Received: 08/22/07
Pleasanton, CA 94566	Client Contact: Steve Clements	Date Extracted: 08/22/07
	Client P.O.:	Date Analyzed: 08/22/07

Lead by ICP-MS*

Extraction method: E200.8 Analytical methods: E200.8 Work Order: 0708643

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS
0708643-001C	PH-3GW, 23'	W	DISS.	ND	1	N/A
0708643-003C	PH-3 GW, 8S'	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	TOTAL^	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.

TOTAL^ = acid digestion.

WET = Waste Extraction Test (STLC).

DI WET = Waste Extraction Test using de-ionized water.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TOTAL^ 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

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SCS Engineers	Client Project ID: #0123087.04; Freisman Ranch GW Transact Investigat	Date Sampled: 08/22/07
6601 Koll Center Parkway Suite 140		Date Received: 08/22/07
Pleasanton, CA 94566	Client Contact: Steve Clements	Date Extracted: 08/22/07
	Client P.O.:	Date Analyzed 08/23/07

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

Extraction method: SW3550C Analytical methods: SW8015C Work Order: 0708643

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0708643-004A	PH-3S,17'	S	20,d,g	1	116
0708643-005A	PH-3S, 78'	S	ND	1	109
0708643-006A	PH-1S, 19'	S	360,d	1	99

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

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

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

+The following descriptions of the TPH chromatogram are cursory in nature and 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; o) results are reported on a dry weight basis.

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SCS Engineers	Client Project ID: #0123087.04; Freisman Ranch GW Transact Investigat	Date Sampled: 08/22/07
6601 Koll Center Parkway Suite 140		Date Received: 08/22/07
Pleasanton, CA 94566	Client Contact: Steve Clements	Date Extracted: 08/22/07
	Client P.O.:	Date Analyzed 08/23/07

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

Extraction method: SW3510C/3630C Analytical methods: SW8015C Work Order: 0708643

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0708643-001A	PH-3GW, 23'	W	ND	1	120
0708643-003A	PH-3 GW, 8S'	W	ND	1	120

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; p) see attached narrative.

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0708643

EPA Method SW8260B	Extraction SW5035				BatchID: 30170			Spiked Sample ID: N/A				
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)	N/A	0.050	N/A	N/A	N/A	93.9	93	0.962	N/A	N/A	70 - 130	30
Benzene	N/A	0.050	N/A	N/A	N/A	97.3	95.6	1.84	N/A	N/A	70 - 130	30
t-Butyl alcohol (TBA)	N/A	0.25	N/A	N/A	N/A	99.9	102	2.55	N/A	N/A	70 - 130	30
Chlorobenzene	N/A	0.050	N/A	N/A	N/A	102	101	1.70	N/A	N/A	70 - 130	30
1,2-Dibromoethane (EDB)	N/A	0.050	N/A	N/A	N/A	105	105	0	N/A	N/A	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	N/A	0.050	N/A	N/A	N/A	101	98.6	2.27	N/A	N/A	70 - 130	30
1,1-Dichloroethene	N/A	0.050	N/A	N/A	N/A	127	128	1.05	N/A	N/A	70 - 130	30
Diisopropyl ether (DIPE)	N/A	0.050	N/A	N/A	N/A	109	107	1.95	N/A	N/A	70 - 130	30
Ethyl tert-butyl ether (ETBE)	N/A	0.050	N/A	N/A	N/A	100	97.5	2.73	N/A	N/A	70 - 130	30
Methyl-t-butyl ether (MTBE)	N/A	0.050	N/A	N/A	N/A	96	97.1	1.10	N/A	N/A	70 - 130	30
Toluene	N/A	0.050	N/A	N/A	N/A	92.9	90.5	2.60	N/A	N/A	70 - 130	30
Trichloroethene	N/A	0.050	N/A	N/A	N/A	93.9	92.1	1.87	N/A	N/A	70 - 130	30
%SS1:	N/A	0.050	N/A	N/A	N/A	103	100	2.92	N/A	N/A	70 - 130	30
%SS2:	N/A	0.050	N/A	N/A	N/A	97	96	1.65	N/A	N/A	70 - 130	30
%SS3:	N/A	0.050	N/A	N/A	N/A	97	96	1.30	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 30170 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708643-004B	08/22/07	08/22/07	08/23/07 9:15 AM	0708643-005B	08/22/07	08/22/07	08/23/07 7:43 AM
0708643-006B	08/22/07	08/22/07	08/23/07 8:27 AM				

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

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

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

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

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

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0708643

EPA Method SW8260B **Extraction SW5030B** **BatchID: 30132** **Spiked Sample ID: 0708582-010A**

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	102	104	2.26	94.4	90.9	3.80	70 - 130	30	70 - 130	30
Benzene	ND	10	99.7	99.3	0.391	93.1	89.9	3.58	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	102	102	0	100	104	3.65	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	101	108	5.95	99.5	95.8	3.73	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	112	120	6.69	110	108	1.89	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	107	105	1.93	101	96.6	4.88	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	126	121	4.17	124	125	1.04	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	115	118	3.05	107	104	2.32	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	108	111	2.85	99.2	96.5	2.66	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	111	113	2.07	102	98.5	2.96	70 - 130	30	70 - 130	30
Toluene	ND	10	98.3	104	6.13	92.5	91.5	1.03	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	97	97.5	0.549	92.1	87.3	5.36	70 - 130	30	70 - 130	30
%SS1:	104	10	103	97	5.16	101	101	0	70 - 130	30	70 - 130	30
%SS2:	99	10	103	104	1.04	99	101	2.91	70 - 130	30	70 - 130	30
%SS3:	98	10	101	102	1.20	99	100	0.492	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 30132 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708643-001B	08/22/07	08/22/07	08/22/07 8:58 PM	0708643-002A	08/22/07	08/22/07	08/22/07 9:51 PM
0708643-003B	08/22/07	08/22/07	08/22/07 10:45 PM				

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

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

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

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

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

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0708643

EPA Method SW8015C	Extraction SW3550C	BatchID: 30136	Spiked Sample ID: 0708493-009A

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)	22	20	NR	NR	NR	120	120	0	70 - 130	30	70 - 130	30
%SS:	92	50	91	92	0.707	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 30136 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708643-004A	08/22/07	08/22/07	08/23/07 3:32 AM	0708643-005A	08/22/07	08/22/07	08/23/07 2:24 AM
0708643-006A	08/22/07	08/22/07	08/23/07 1:15 AM				

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

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

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

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

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

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0708643

EPA Method SW8021B/8015Cm	Extraction SW5030B	BatchID: 30166	Spiked Sample ID: 0708633-001C

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	99.5	98.4	1.10	97.8	99.8	2.05	70 - 130	30	70 - 130	30
MTBE	ND	0.10	100	104	3.44	109	111	1.56	70 - 130	30	70 - 130	30
Benzene	ND	0.10	90.6	90.4	0.264	89.7	96.4	7.19	70 - 130	30	70 - 130	30
Toluene	ND	0.10	79	79.4	0.514	82.2	87.2	5.87	70 - 130	30	70 - 130	30
Ethylbenzene	ND	0.10	92.7	92.7	0	92.8	98.5	5.95	70 - 130	30	70 - 130	30
Xylenes	ND	0.30	91.3	90.7	0.733	91.7	96.7	5.31	70 - 130	30	70 - 130	30
%SS:	85	0.10	86	95	9.91	95	96	0.924	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 30166 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708643-004A	08/22/07	08/22/07	08/23/07 11:20 AM	0708643-005A	08/22/07	08/22/07	08/23/07 8:13 AM
0708643-006A	08/22/07	08/22/07	08/23/07 11:51 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.

cluttered chromatogram; sample peak coelutes with surrogate peak.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0708643

EPA Method SW8021B/8015Cm Extraction SW5030B BatchID: 30046 Spiked Sample ID: 0708475-001A

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	100	92	8.39	105	107	1.37	70 - 130	30	70 - 130	30
MTBE	ND	10	110	101	8.39	80.1	95.3	17.3	70 - 130	30	70 - 130	30
Benzene	ND	10	94.9	92.7	2.39	98.9	93.4	5.79	70 - 130	30	70 - 130	30
Toluene	ND	10	108	106	1.68	113	105	7.37	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	105	100	4.21	110	104	6.05	70 - 130	30	70 - 130	30
Xylenes	ND	30	117	110	5.88	113	113	0	70 - 130	30	70 - 130	30
%SS:	110	10	96	100	3.86	98	95	3.53	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 30046 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708643-001A	08/22/07	08/23/07	08/23/07 3:05 PM	0708643-003A	08/22/07	08/23/07	08/23/07 3:37 PM

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0708643

EPA Method 6010C **Extraction SW3050B** **BatchID: 30107** **Spiked Sample ID 0708553-007A**

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
Lead	5.3	50	97.4	96.4	0.977	10	86.8	91.2	4.83	70 - 130	20	80 - 120	20
%SS:	109	250	107	108	0.744	250	103	105	1.15	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 30107 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708643-004A	08/22/07	08/22/07	08/23/07 2:12 PM	0708643-005A	08/22/07	08/22/07	08/23/07 2:15 PM
0708643-006A	08/22/07	08/22/07	08/23/07 2:17 PM				

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

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

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

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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QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0708643

EPA Method E200.8	Extraction E200.8				BatchID: 30081			Spiked Sample ID: 0708519-001A			
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
Lead	0.68	10	102	101	0.834	104	107	2.57	70 - 130	20	80 - 120	20
%SS:	103	750	103	100	2.76	97	98	1.01	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 30081 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708643-001C	08/22/07	08/22/07	08/22/07 8:44 PM	0708643-003C	08/22/07	08/22/07	08/22/07 8:49 PM

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

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

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

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.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0708643

EPA Method SW8015C **Extraction SW3510C/3630C** **BatchID: 30092** **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	124	125	0.108	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	118	120	1.64	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 30092 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708643-001A	08/22/07	08/22/07	08/23/07 1:15 AM	0708643-003A	08/22/07	08/22/07	08/23/07 2:24 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.

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.

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SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01202087.04; Freisman Ranch C+W Investigation	Date Sampled: 08/23/07
		Date Received: 08/23/07
	Client Contact: Steve Clements	Date Reported: 08/24/07
	Client P.O.:	Date Completed: 08/24/07

WorkOrder: 0708672

August 24, 2007

Dear Steve:

Enclosed are:

1). the results of **6** analyzed samples from your **#01202087.04; Freisman Ranch C+W Investigation 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

0708672

CHAIN OF CUSTODY RECORD

RUSH

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: 6

PAGE 1 OF 1

TURNAROUND TIME REQUIRED: 24 hr
___5-Day ___3-Day ___Immediate ___Other

PROJECT NUMBER: 01203087.04

PROJECT MANAGER: S. Clements

PROJECT NAME: Freisman Ranch GW Investigation

W.O. / S.O. #:

PROJECT LOCATION: 1600 Freisman Rd, Livermore, CA

SAMPLER NAME AND SIGNATURE: Ted Sison (925) 413-5813

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: 8015 TPH-g-ss-d	Fuel 8260	~~Oxy~~ Dissolved Lead 200.8	6010 Total Lead	5035/8260	LAB USE ONLY
	PH-1S, 57'	Soil	8-23-07	2 Encores 1 Jar	—		X			X	X	
	PH-2S, 25'	↓		↓	—		X			X	X	
	PH-2S, 48'	↓		↓	—		X			X	X	
+5	PH-2GW, 29'	H2O		various	4 VOAs w/ HCl	Silica Gel cleanup for d	X	X	X			
+	PH-1GW, 24'	↓		↓	↓	↓	X	X	X			
✓	QCTB	↓		↓	2 VOAs w/ HCl			X				
								*				

ICE/°: 4.0 ✓
GOOD CONDITION ___ ✓ APPROPRIATE ✓
HEAD SPACE ABSENT ___ ✓ CONTAINERS ___
DECHLORINATED IN LAB ___ PRESERVED IN LAB ✓
PRESERVATION ✓ VOAs ___ O&G ___ METALS ___ OTHER ___

NOTES:
* Please cc results to tsison@scsengineers.com
Groundwater samples for metal were not filtered or preserved in field.

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:	RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
	8-23-07		8/23/07				
COMPANY: SCS	TIME: 4:30	COMPANY: MAI	TIME: 430pm	COMPANY:	TIME:	COMPANY:	TIME:

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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0708672 **ClientID: SCSD**

☐ EDF ☐ Excel ☐ 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) 426-008 FAX: (925) 426-070
ProjectNo: #01202087.04; Freisman Ranch C+W I
PO:

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

Requested TAT: 1 day

Date Received **08/23/2007**
Date Printed: **08/23/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0708672-001	PH-1S,57'	Soil	08/23/07	☐	B		A		A							
0708672-002	PH-2S,25'	Soil	08/23/07	☐	B		A		A							
0708672-003	PH-2S,48'	Soil	08/23/07	☐	B		A		A							
0708672-004	PH-2GW,29'	Water	08/23/07	☐		B		A		C	C					
0708672-005	PH-1GW,24'	Water	08/23/07	☐		B		A		C	C					
0708672-006	QCTB	Water	08/23/07	☐		A										

Test Legend:

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

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

Prepared by: Maria Venegas

Comments: 24hr Rush

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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Sample Receipt Checklist

Client Name: **SCS Engineers** Date and Time Received: **08/23/07 5:07:28 PM**

Project Name: **#01202087.04; Freisman Ranch C+W Investigation** Checklist completed and reviewed by: Maria Venegas

WorkOrder N°: **0708672** Matrix Soil/Water Carrier: Client Drop-In

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 4.0°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

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SCS Engineers	Client Project ID: #01202087.04; Freisman Ranch C+W Investigation	Date Sampled: 08/23/07
		Date Received: 08/23/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 08/23/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 08/23/07

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

Extraction Method: SW5035 Analytical Method: SW8260B Work Order: 0708672

Lab ID	0708672-001B
Client ID	PH-1S,57'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<0.051	1.0	0.05	Acrolein (Propenal)	ND<0.051	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND<0.0051	1.0	0.005
Benzene	ND<0.0051	1.0	0.005	Bromobenzene	ND<0.0051	1.0	0.005
Bromochloromethane	ND<0.0051	1.0	0.005	Bromodichloromethane	ND<0.0051	1.0	0.005
Bromoform	ND<0.0051	1.0	0.005	Bromomethane	ND<0.0051	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND<0.051	1.0	0.05
n-Butyl benzene	ND<0.0051	1.0	0.005	sec-Butyl benzene	ND<0.0051	1.0	0.005
tert-Butyl benzene	ND<0.0051	1.0	0.005	Carbon Disulfide	ND<0.0051	1.0	0.005
Carbon Tetrachloride	ND<0.0051	1.0	0.005	Chlorobenzene	ND<0.0051	1.0	0.005
Chloroethane	ND<0.0051	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND<0.0051	1.0	0.005	Chloromethane	ND<0.0051	1.0	0.005
2-Chlorotoluene	ND<0.0051	1.0	0.005	4-Chlorotoluene	ND<0.0051	1.0	0.005
Dibromochloromethane	ND<0.0051	1.0	0.005	1,2-Dibromo-3-chloropropane	ND<0.0051	1.0	0.005
1,2-Dibromoethane (EDB)	ND<0.0051	1.0	0.005	Dibromomethane	ND<0.0051	1.0	0.005
1,2-Dichlorobenzene	ND<0.0051	1.0	0.005	1,3-Dichlorobenzene	ND<0.0051	1.0	0.005
1,4-Dichlorobenzene	ND<0.0051	1.0	0.005	Dichlorodifluoromethane	ND<0.0051	1.0	0.005
1,1-Dichloroethane	ND<0.0051	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND<0.0051	1.0	0.005
1,1-Dichloroethene	ND<0.0051	1.0	0.005	cis-1,2-Dichloroethene	ND<0.0051	1.0	0.005
trans-1,2-Dichloroethene	ND<0.0051	1.0	0.005	1,2-Dichloropropane	ND<0.0051	1.0	0.005
1,3-Dichloropropane	ND<0.0051	1.0	0.005	2,2-Dichloropropane	ND<0.0051	1.0	0.005
1,1-Dichloropropene	ND<0.0051	1.0	0.005	cis-1,3-Dichloropropene	ND<0.0051	1.0	0.005
trans-1,3-Dichloropropene	ND<0.0051	1.0	0.005	Diisopropyl ether (DIPE)	ND<0.0051	1.0	0.005
Ethylbenzene	ND<0.0051	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND<0.0051	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND<0.0051	1.0	0.005
Hexachloroethane	ND<0.0051	1.0	0.005	2-Hexanone	ND<0.0051	1.0	0.005
Isopropylbenzene	ND<0.0051	1.0	0.005	4-Isopropyl toluene	ND<0.0051	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND<0.0051	1.0	0.005	Methylene chloride	ND<0.0051	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND<0.0051	1.0	0.005	Naphthalene	ND<0.0051	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND<0.0051	1.0	0.005
Styrene	ND<0.0051	1.0	0.005	1,1,1,2-Tetrachloroethane	ND<0.0051	1.0	0.005
1,1,2,2-Tetrachloroethane	ND<0.0051	1.0	0.005	Tetrachloroethene	ND<0.0051	1.0	0.005
Toluene	ND<0.0051	1.0	0.005	1,2,3-Trichlorobenzene	ND<0.0051	1.0	0.005
1,2,4-Trichlorobenzene	ND<0.0051	1.0	0.005	1,1,1-Trichloroethane	ND<0.0051	1.0	0.005
1,1,2-Trichloroethane	ND<0.0051	1.0	0.005	Trichloroethene	ND<0.0051	1.0	0.005
Trichlorofluoromethane	ND<0.0051	1.0	0.005	1,2,3-Trichloropropane	ND<0.0051	1.0	0.005
1,2,4-Trimethylbenzene	ND<0.0051	1.0	0.005	1,3,5-Trimethylbenzene	ND<0.0051	1.0	0.005
Vinyl Chloride	ND<0.0051	1.0	0.005	Xylenes	ND<0.0051	1.0	0.005

Surrogate Recoveries (%)

%SS1:	103	%SS2:	93
%SS3:	88		

Comments: k

* 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; J) analyte detected below quantitation limits; 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: #01202087.04; Freisman Ranch C+W Investigation	Date Sampled: 08/23/07
		Date Received: 08/23/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 08/23/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 08/23/07

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

Extraction Method: SW5035 Analytical Method: SW8260B Work Order: 0708672

Lab ID	0708672-002B
Client ID	PH-2S,25'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<0.039	1.0	0.05	Acrolein (Propenal)	ND<0.039	1.0	0.05
Acrylonitrile	ND<0.016	1.0	0.02	tert-Amyl methyl ether (TAME)	ND<0.0039	1.0	0.005
Benzene	ND<0.0039	1.0	0.005	Bromobenzene	ND<0.0039	1.0	0.005
Bromochloromethane	ND<0.0039	1.0	0.005	Bromodichloromethane	ND<0.0039	1.0	0.005
Bromoform	ND<0.0039	1.0	0.005	Bromomethane	ND<0.0039	1.0	0.005
2-Butanone (MEK)	ND<0.016	1.0	0.02	t-Butyl alcohol (TBA)	ND<0.039	1.0	0.05
n-Butyl benzene	ND<0.0039	1.0	0.005	sec-Butyl benzene	ND<0.0039	1.0	0.005
tert-Butyl benzene	ND<0.0039	1.0	0.005	Carbon Disulfide	ND<0.0039	1.0	0.005
Carbon Tetrachloride	ND<0.0039	1.0	0.005	Chlorobenzene	ND<0.0039	1.0	0.005
Chloroethane	ND<0.0039	1.0	0.005	2-Chloroethyl Vinyl Ether	ND<0.0079	1.0	0.01
Chloroform	ND<0.0039	1.0	0.005	Chloromethane	ND<0.0039	1.0	0.005
2-Chlorotoluene	ND<0.0039	1.0	0.005	4-Chlorotoluene	ND<0.0039	1.0	0.005
Dibromochloromethane	ND<0.0039	1.0	0.005	1,2-Dibromo-3-chloropropane	ND<0.0039	1.0	0.005
1,2-Dibromoethane (EDB)	ND<0.0039	1.0	0.005	Dibromomethane	ND<0.0039	1.0	0.005
1,2-Dichlorobenzene	ND<0.0039	1.0	0.005	1,3-Dichlorobenzene	ND<0.0039	1.0	0.005
1,4-Dichlorobenzene	ND<0.0039	1.0	0.005	Dichlorodifluoromethane	ND<0.0039	1.0	0.005
1,1-Dichloroethane	ND<0.0039	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND<0.0039	1.0	0.005
1,1-Dichloroethene	ND<0.0039	1.0	0.005	cis-1,2-Dichloroethene	ND<0.0039	1.0	0.005
trans-1,2-Dichloroethene	ND<0.0039	1.0	0.005	1,2-Dichloropropane	ND<0.0039	1.0	0.005
1,3-Dichloropropane	ND<0.0039	1.0	0.005	2,2-Dichloropropane	ND<0.0039	1.0	0.005
1,1-Dichloropropene	ND<0.0039	1.0	0.005	cis-1,3-Dichloropropene	ND<0.0039	1.0	0.005
trans-1,3-Dichloropropene	ND<0.0039	1.0	0.005	Diisopropyl ether (DIPE)	ND<0.0039	1.0	0.005
Ethylbenzene	ND<0.0039	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND<0.0039	1.0	0.005
Freon 113	ND<0.079	1.0	0.1	Hexachlorobutadiene	ND<0.0039	1.0	0.005
Hexachloroethane	ND<0.0039	1.0	0.005	2-Hexanone	ND<0.0039	1.0	0.005
Isopropylbenzene	ND<0.0039	1.0	0.005	4-Isopropyl toluene	ND<0.0039	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND<0.0039	1.0	0.005	Methylene chloride	ND<0.0039	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND<0.0039	1.0	0.005	Naphthalene	ND<0.0039	1.0	0.005
Nitrobenzene	ND<0.079	1.0	0.1	n-Propyl benzene	ND<0.0039	1.0	0.005
Styrene	ND<0.0039	1.0	0.005	1,1,1,2-Tetrachloroethane	ND<0.0039	1.0	0.005
1,1,2,2-Tetrachloroethane	ND<0.0039	1.0	0.005	Tetrachloroethene	ND<0.0039	1.0	0.005
Toluene	ND<0.0039	1.0	0.005	1,2,3-Trichlorobenzene	ND<0.0039	1.0	0.005
1,2,4-Trichlorobenzene	ND<0.0039	1.0	0.005	1,1,1-Trichloroethane	ND<0.0039	1.0	0.005
1,1,2-Trichloroethane	ND<0.0039	1.0	0.005	Trichloroethene	ND<0.0039	1.0	0.005
Trichlorofluoromethane	ND<0.0039	1.0	0.005	1,2,3-Trichloropropane	ND<0.0039	1.0	0.005
1,2,4-Trimethylbenzene	ND<0.0039	1.0	0.005	1,3,5-Trimethylbenzene	ND<0.0039	1.0	0.005
Vinyl Chloride	ND<0.0039	1.0	0.005	Xylenes	ND<0.0039	1.0	0.005

Surrogate Recoveries (%)

%SS1:	102	%SS2:	94
%SS3:	87		

Comments: k

* 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; J) analyte detected below quantitation limits; 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: #01202087.04; Freisman Ranch C+W Investigation	Date Sampled: 08/23/07
		Date Received: 08/23/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 08/23/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 08/23/07

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

Extraction Method: SW5035 Analytical Method: SW8260B Work Order: 0708672

Lab ID	0708672-003B
Client ID	PH-2S,48'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<0.041	1.0	0.05	Acrolein (Propenal)	ND<0.041	1.0	0.05
Acrylonitrile	ND<0.017	1.0	0.02	tert-Amyl methyl ether (TAME)	ND<0.0041	1.0	0.005
Benzene	ND<0.0041	1.0	0.005	Bromobenzene	ND<0.0041	1.0	0.005
Bromochloromethane	ND<0.0041	1.0	0.005	Bromodichloromethane	ND<0.0041	1.0	0.005
Bromoform	ND<0.0041	1.0	0.005	Bromomethane	ND<0.0041	1.0	0.005
2-Butanone (MEK)	ND<0.017	1.0	0.02	t-Butyl alcohol (TBA)	ND<0.041	1.0	0.05
n-Butyl benzene	ND<0.0041	1.0	0.005	sec-Butyl benzene	ND<0.0041	1.0	0.005
tert-Butyl benzene	ND<0.0041	1.0	0.005	Carbon Disulfide	ND<0.0041	1.0	0.005
Carbon Tetrachloride	ND<0.0041	1.0	0.005	Chlorobenzene	ND<0.0041	1.0	0.005
Chloroethane	ND<0.0041	1.0	0.005	2-Chloroethyl Vinyl Ether	ND<0.0083	1.0	0.01
Chloroform	ND<0.0041	1.0	0.005	Chloromethane	ND<0.0041	1.0	0.005
2-Chlorotoluene	ND<0.0041	1.0	0.005	4-Chlorotoluene	ND<0.0041	1.0	0.005
Dibromochloromethane	ND<0.0041	1.0	0.005	1,2-Dibromo-3-chloropropane	ND<0.0041	1.0	0.005
1,2-Dibromoethane (EDB)	ND<0.0041	1.0	0.005	Dibromomethane	ND<0.0041	1.0	0.005
1,2-Dichlorobenzene	ND<0.0041	1.0	0.005	1,3-Dichlorobenzene	ND<0.0041	1.0	0.005
1,4-Dichlorobenzene	ND<0.0041	1.0	0.005	Dichlorodifluoromethane	ND<0.0041	1.0	0.005
1,1-Dichloroethane	ND<0.0041	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND<0.0041	1.0	0.005
1,1-Dichloroethene	ND<0.0041	1.0	0.005	cis-1,2-Dichloroethene	ND<0.0041	1.0	0.005
trans-1,2-Dichloroethene	ND<0.0041	1.0	0.005	1,2-Dichloropropane	ND<0.0041	1.0	0.005
1,3-Dichloropropane	ND<0.0041	1.0	0.005	2,2-Dichloropropane	ND<0.0041	1.0	0.005
1,1-Dichloropropene	ND<0.0041	1.0	0.005	cis-1,3-Dichloropropene	ND<0.0041	1.0	0.005
trans-1,3-Dichloropropene	ND<0.0041	1.0	0.005	Diisopropyl ether (DIPE)	ND<0.0041	1.0	0.005
Ethylbenzene	ND<0.0041	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND<0.0041	1.0	0.005
Freon 113	ND<0.083	1.0	0.1	Hexachlorobutadiene	ND<0.0041	1.0	0.005
Hexachloroethane	ND<0.0041	1.0	0.005	2-Hexanone	ND<0.0041	1.0	0.005
Isopropylbenzene	ND<0.0041	1.0	0.005	4-Isopropyl toluene	ND<0.0041	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND<0.0041	1.0	0.005	Methylene chloride	ND<0.0041	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND<0.0041	1.0	0.005	Naphthalene	ND<0.0041	1.0	0.005
Nitrobenzene	ND<0.083	1.0	0.1	n-Propyl benzene	ND<0.0041	1.0	0.005
Styrene	ND<0.0041	1.0	0.005	1,1,1,2-Tetrachloroethane	ND<0.0041	1.0	0.005
1,1,2,2-Tetrachloroethane	ND<0.0041	1.0	0.005	Tetrachloroethene	ND<0.0041	1.0	0.005
Toluene	ND<0.0041	1.0	0.005	1,2,3-Trichlorobenzene	ND<0.0041	1.0	0.005
1,2,4-Trichlorobenzene	ND<0.0041	1.0	0.005	1,1,1-Trichloroethane	ND<0.0041	1.0	0.005
1,1,2-Trichloroethane	ND<0.0041	1.0	0.005	Trichloroethene	ND<0.0041	1.0	0.005
Trichlorofluoromethane	ND<0.0041	1.0	0.005	1,2,3-Trichloropropane	ND<0.0041	1.0	0.005
1,2,4-Trimethylbenzene	ND<0.0041	1.0	0.005	1,3,5-Trimethylbenzene	ND<0.0041	1.0	0.005
Vinyl Chloride	ND<0.0041	1.0	0.005	Xylenes	ND<0.0041	1.0	0.005

Surrogate Recoveries (%)

%SS1:	103	%SS2:	92
%SS3:	88		

Comments: k

* 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; J) analyte detected below quantitation limits; 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: #01202087.04; Freisman Ranch C+W Investigation	Date Sampled: 08/23/07
		Date Received: 08/23/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 08/24/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 08/24/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0708672

Lab ID	0708672-004B
Client ID	PH-2GW,29'
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:	106	%SS2:	95
%SS3:	96		

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; J) analyte detected below quantitation limits; 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: #01202087.04; Freisman Ranch C+W Investigation	Date Sampled: 08/23/07
		Date Received: 08/23/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 08/23/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 08/23/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0708672

Lab ID	0708672-005B
Client ID	PH-1GW,24'
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<100	10	10	Acrolein (Propenal)	ND<50	10	5.0
Acrylonitrile	ND<20	10	2.0	tert-Amyl methyl ether (TAME)	ND<5.0	10	0.5
Benzene	5.1	10	0.5	Bromobenzene	ND<5.0	10	0.5
Bromochloromethane	ND<5.0	10	0.5	Bromodichloromethane	ND<5.0	10	0.5
Bromoform	ND<5.0	10	0.5	Bromomethane	ND<5.0	10	0.5
2-Butanone (MEK)	ND<20	10	2.0	t-Butyl alcohol (TBA)	ND<50	10	5.0
n-Butyl benzene	13	10	0.5	sec-Butyl benzene	6.1	10	0.5
tert-Butyl benzene	ND<5.0	10	0.5	Carbon Disulfide	ND<5.0	10	0.5
Carbon Tetrachloride	ND<5.0	10	0.5	Chlorobenzene	ND<5.0	10	0.5
Chloroethane	ND<5.0	10	0.5	2-Chloroethyl Vinyl Ether	ND<10	10	1.0
Chloroform	ND<5.0	10	0.5	Chloromethane	ND<5.0	10	0.5
2-Chlorotoluene	ND<5.0	10	0.5	4-Chlorotoluene	ND<5.0	10	0.5
Dibromochloromethane	ND<5.0	10	0.5	1,2-Dibromo-3-chloropropane	ND<5.0	10	0.5
1,2-Dibromoethane (EDB)	ND<5.0	10	0.5	Dibromomethane	ND<5.0	10	0.5
1,2-Dichlorobenzene	ND<5.0	10	0.5	1,3-Dichlorobenzene	ND<5.0	10	0.5
1,4-Dichlorobenzene	ND<5.0	10	0.5	Dichlorodifluoromethane	ND<5.0	10	0.5
1,1-Dichloroethane	ND<5.0	10	0.5	1,2-Dichloroethane (1,2-DCA)	ND<5.0	10	0.5
1,1-Dichloroethene	ND<5.0	10	0.5	cis-1,2-Dichloroethene	ND<5.0	10	0.5
trans-1,2-Dichloroethene	ND<5.0	10	0.5	1,2-Dichloropropane	ND<5.0	10	0.5
1,3-Dichloropropane	ND<5.0	10	0.5	2,2-Dichloropropane	ND<5.0	10	0.5
1,1-Dichloropropene	ND<5.0	10	0.5	cis-1,3-Dichloropropene	ND<5.0	10	0.5
trans-1,3-Dichloropropene	ND<5.0	10	0.5	Diisopropyl ether (DIPE)	ND<5.0	10	0.5
Ethylbenzene	36	10	0.5	Ethyl tert-butyl ether (ETBE)	ND<5.0	10	0.5
Freon 113	ND<100	10	10	Hexachlorobutadiene	ND<5.0	10	0.5
Hexachloroethane	ND<5.0	10	0.5	2-Hexanone	ND<5.0	10	0.5
Isopropylbenzene	24	10	0.5	4-Isopropyl toluene	ND<5.0	10	0.5
Methyl-t-butyl ether (MTBE)	ND<5.0	10	0.5	Methylene chloride	ND<5.0	10	0.5
4-Methyl-2-pentanone (MIBK)	ND<5.0	10	0.5	Naphthalene	38	10	0.5
Nitrobenzene	ND<100	10	10	n-Propyl benzene	63	10	0.5
Styrene	ND<5.0	10	0.5	1,1,1,2-Tetrachloroethane	ND<5.0	10	0.5
1,1,2,2-Tetrachloroethane	ND<5.0	10	0.5	Tetrachloroethene	ND<5.0	10	0.5
Toluene	ND<5.0	10	0.5	1,2,3-Trichlorobenzene	ND<5.0	10	0.5
1,2,4-Trichlorobenzene	ND<5.0	10	0.5	1,1,1-Trichloroethane	ND<5.0	10	0.5
1,1,2-Trichloroethane	ND<5.0	10	0.5	Trichloroethene	ND<5.0	10	0.5
Trichlorofluoromethane	ND<5.0	10	0.5	1,2,3-Trichloropropane	ND<5.0	10	0.5
1,2,4-Trimethylbenzene	110	10	0.5	1,3,5-Trimethylbenzene	30	10	0.5
Vinyl Chloride	ND<5.0	10	0.5	Xylenes	23	10	0.5

Surrogate Recoveries (%)

%SS1:	101	%SS2:	101
%SS3:	99		

Comments:

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

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

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; 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: #01202087.04; Freisman Ranch C+W Investigation	Date Sampled: 08/23/07
		Date Received: 08/23/07
6601 Koll Center Pkwy, Ste 140	Client Contact: Steve Clements	Date Extracted: 08/24/07
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 08/24/07

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0708672

Lab ID	0708672-006A
Client ID	QCTB
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:	103	%SS2:	91
%SS3:	91		

Comments:

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

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

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; 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: #01202087.04; Freisman Ranch C+W Investigation	Date Sampled: 08/23/07
		Date Received: 08/23/07
	Client Contact: Steve Clements	Date Extracted: 08/23/07
	Client P.O.:	Date Analyzed: 08/24/07

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

Extraction method SW5030B Analytical methods SW8015Cm Work Order: 0708672

Lab ID	Client ID	Matrix	TPH(g)	TPH(ss)	DF	% SS
0708672-001A	PH-1S,57'	S	ND	ND	1	89
0708672-002A	PH-2S,25'	S	ND	ND	1	85
0708672-003A	PH-2S,48'	S	ND	ND	1	83
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	NA		
	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 due to high organic / MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; p) see attached narrative.

DHS ELAP Certification N° 1644

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SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01202087.04; Freisman Ranch C+W Investigation	Date Sampled: 08/23/07
		Date Received: 08/23/07
	Client Contact: Steve Clements	Date Extracted: 08/24/07
	Client P.O.:	Date Analyzed: 08/24/07

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

Extraction method SW5030B Analytical methods SW8015Cm Work Order: 0708672

Lab ID	Client ID	Matrix	TPH(g)	TPH(ss)	DF	% SS
0708672-004A	PH-2GW,29'	W	ND,i	ND	1	98
0708672-005A	PH-1GW,24'	W	2200,a,m	1500	1	101
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	50	µg/L		
	S	NA	NA	NA		

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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SCS Engineers	Client Project ID: #01202087.04; Freisman Ranch C+W Investigation	Date Sampled: 08/23/07
6601 Koll Center Pkwy, Ste 140		Date Received: 08/23/07
Pleasanton, CA 94566	Client Contact: Steve Clements	Date Extracted: 08/23/07
	Client P.O.:	Date Analyzed: 08/24/07

Lead by ICP*

Extraction method: SW3050B Analytical methods: 6010C Work Order: 0708672

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS
0708672-001A	PH-1S,57'	S	TOTAL^	5.9	1	105
0708672-002A	PH-2S,25'	S	TOTAL^	6.3	1	106
0708672-003A	PH-2S,48'	S	TOTAL^	5.5	1	104

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

TOTAL^ = acid digestion.

WET = Waste Extraction Test (STLC).

DI WET = Waste Extraction Test using de-ionized water.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TOTAL^ 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.

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SCS Engineers	Client Project ID: #01202087.04; Freisman Ranch C+W Investigation	Date Sampled: 08/23/07
6601 Koll Center Pkwy, Ste 140		Date Received: 08/23/07
Pleasanton, CA 94566	Client Contact: Steve Clements	Date Extracted: 08/23/07
	Client P.O.:	Date Analyzed 08/23/07

Lead by ICP-MS*

Extraction method E200.8 Analytical methods E200.8 Work Order: 0708672

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS
0708672-004C	PH-2GW,29'	W	DISS.	2.2	1	N/A
0708672-005C	PH-1GW,24'	W	DISS.	1.5	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	TOTAL^	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.

TOTAL^ = acid digestion.

WET = Waste Extraction Test (STLC).

DI WET = Waste Extraction Test using de-ionized water.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TOTAL^ 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.

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SCS Engineers	Client Project ID: #01202087.04; Freisman Ranch C+W Investigation	Date Sampled: 08/23/07
6601 Koll Center Pkwy, Ste 140		Date Received: 08/23/07
Pleasanton, CA 94566	Client Contact: Steve Clements	Date Extracted: 08/23/07
	Client P.O.:	Date Analyzed 08/23/07

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

Extraction method SW3550C Analytical methods SW8015C Work Order: 0708672

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0708672-001A	PH-1S,57'	S	ND	1	106
0708672-002A	PH-2S,25'	S	ND	1	103
0708672-003A	PH-2S,48'	S	ND	1	106

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

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

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

+The following descriptions of the TPH chromatogram are cursory in nature and 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; o) results are reported on a dry weight basis.

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SCS Engineers 6601 Koll Center Pkwy, Ste 140 Pleasanton, CA 94566	Client Project ID: #01202087.04; Freisman Ranch C+W Investigation	Date Sampled: 08/23/07
		Date Received: 08/23/07
	Client Contact: Steve Clements	Date Extracted: 08/23/07
	Client P.O.:	Date Analyzed 08/24/07

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

Extraction method SW3510C/3630C Analytical methods SW8015C Work Order: 0708672

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0708672-004A	PH-2GW,29'	W	ND,i	1	94
0708672-005A	PH-1GW,24'	W	1000,d	1	116

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; p) see attached narrative.

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0708672

EPA Method SW8260B **Extraction SW5030B** **BatchID: 30132** **Spiked Sample ID: 0708582-010A**

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	102	104	2.26	94.4	90.9	3.80	70 - 130	30	70 - 130	30
Benzene	ND	10	99.7	99.3	0.391	93.1	89.9	3.58	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	102	102	0	100	104	3.65	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	101	108	5.95	99.5	95.8	3.73	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	112	120	6.69	110	108	1.89	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	107	105	1.93	101	96.6	4.88	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	126	121	4.17	124	125	1.04	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	115	118	3.05	107	104	2.32	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	108	111	2.85	99.2	96.5	2.66	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	111	113	2.07	102	98.5	2.96	70 - 130	30	70 - 130	30
Toluene	ND	10	98.3	104	6.13	92.5	91.5	1.03	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	97	97.5	0.549	92.1	87.3	5.36	70 - 130	30	70 - 130	30
%SS1:	103	10	103	97	5.16	101	101	0	70 - 130	30	70 - 130	30
%SS2:	101	10	103	104	1.04	99	101	2.91	70 - 130	30	70 - 130	30
%SS3:	99	10	101	102	1.20	99	100	0.492	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 30132 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708672-004B	08/23/07	08/24/07	08/24/07 12:18 AM	0708672-005B	08/23/07	08/23/07	08/23/07 8:50 PM
0708672-006A	08/23/07	08/24/07	08/24/07 8:51 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.

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

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

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0708672

EPA Method SW8260B **Extraction SW5035** **BatchID: 30170** **Spiked Sample ID: N/A**

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)	N/A	0.050	N/A	N/A	N/A	93.9	93	0.962	N/A	N/A	70 - 130	30
Benzene	N/A	0.050	N/A	N/A	N/A	97.3	95.6	1.84	N/A	N/A	70 - 130	30
t-Butyl alcohol (TBA)	N/A	0.25	N/A	N/A	N/A	99.9	102	2.55	N/A	N/A	70 - 130	30
Chlorobenzene	N/A	0.050	N/A	N/A	N/A	102	101	1.70	N/A	N/A	70 - 130	30
1,2-Dibromoethane (EDB)	N/A	0.050	N/A	N/A	N/A	105	105	0	N/A	N/A	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	N/A	0.050	N/A	N/A	N/A	101	98.6	2.27	N/A	N/A	70 - 130	30
1,1-Dichloroethene	N/A	0.050	N/A	N/A	N/A	127	128	1.05	N/A	N/A	70 - 130	30
Diisopropyl ether (DIPE)	N/A	0.050	N/A	N/A	N/A	109	107	1.95	N/A	N/A	70 - 130	30
Ethyl tert-butyl ether (ETBE)	N/A	0.050	N/A	N/A	N/A	100	97.5	2.73	N/A	N/A	70 - 130	30
Methyl-t-butyl ether (MTBE)	N/A	0.050	N/A	N/A	N/A	96	97.1	1.10	N/A	N/A	70 - 130	30
Toluene	N/A	0.050	N/A	N/A	N/A	92.9	90.5	2.60	N/A	N/A	70 - 130	30
Trichloroethene	N/A	0.050	N/A	N/A	N/A	93.9	92.1	1.87	N/A	N/A	70 - 130	30
%SS1:	N/A	0.050	N/A	N/A	N/A	103	100	2.92	N/A	N/A	70 - 130	30
%SS2:	N/A	0.050	N/A	N/A	N/A	97	96	1.65	N/A	N/A	70 - 130	30
%SS3:	N/A	0.050	N/A	N/A	N/A	97	96	1.30	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 30170 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708672-001B	08/23/07	08/23/07	08/23/07 8:30 PM	0708672-002B	08/23/07	08/23/07	08/23/07 7:39 PM
0708672-003B	08/23/07	08/23/07	08/23/07 9:23 PM				

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

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

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

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

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

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0708672

EPA Method SW8021B/8015Cm	Extraction SW5030B	BatchID: 30033	Spiked Sample ID: 0708553-005A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	94.1	88.6	6.02	95.6	109	12.7	70 - 130	30	70 - 130	30
MTBE	ND	0.10	105	107	1.79	111	118	6.11	70 - 130	30	70 - 130	30
Benzene	ND	0.10	97.3	96.1	1.30	99.5	102	2.72	70 - 130	30	70 - 130	30
Toluene	ND	0.10	83.7	84.4	0.750	87.3	92.4	5.64	70 - 130	30	70 - 130	30
Ethylbenzene	ND	0.10	96.2	97.5	1.33	97.3	97.9	0.685	70 - 130	30	70 - 130	30
Xylenes	ND	0.30	90	91	1.10	91	90.7	0.367	70 - 130	30	70 - 130	30
%SS:	83	0.10	100	99	0.893	99	100	0.457	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 30033 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708672-001A	08/23/07	08/23/07	08/24/07 2:42 AM	0708672-002A	08/23/07	08/23/07	08/24/07 3:12 AM
0708672-003A	08/23/07	08/23/07	08/24/07 10:46 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

DHS ELAP Certification N° 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0708672

EPA Method SW8015C **Extraction SW3510C/3630C** **BatchID: 30191** **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	116	117	1.11	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	102	104	2.15	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 30191 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708672-004A	08/23/07	08/23/07	08/24/07 8:06 AM				

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

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

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

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

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

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0708672

EPA Method SW8021B/8015Cm **Extraction SW5030B** **BatchID: 30189** **Spiked Sample ID: 0708673-001A**

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	84.6	84	0.750	86.7	87	0.284	70 - 130	30	70 - 130	30
MTBE	ND	10	82.2	99.6	19.1	73.7	83.9	12.9	70 - 130	30	70 - 130	30
Benzene	ND	10	83.9	91.9	9.10	84.9	82.7	2.68	70 - 130	30	70 - 130	30
Toluene	ND	10	78.1	84.6	7.97	85.9	83.5	2.78	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	86.9	93.2	6.96	91.4	87.1	4.90	70 - 130	30	70 - 130	30
Xylenes	ND	30	86.7	90.3	4.14	100	95.3	4.78	70 - 130	30	70 - 130	30
%SS:	100	10	100	104	3.78	93	92	1.42	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 30189 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708672-004A	08/23/07	08/24/07	08/24/07 8:15 AM	0708672-005A	08/23/07	08/24/07	08/24/07 8:45 AM

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0708672

EPA Method 6010C **Extraction SW3050B** **BatchID: 30107** **Spiked Sample ID 0708553-007A**

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
Lead	5.3	50	97.4	96.4	0.977	10	86.8	91.2	4.83	70 - 130	20	80 - 120	20
%SS:	109	250	107	108	0.744	250	103	105	1.15	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 30107 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708672-001A	08/23/07	08/23/07	08/24/07 10:58 AM	0708672-002A	08/23/07	08/23/07	08/24/07 11:00 AM
0708672-003A	08/23/07	08/23/07	08/24/07 11:02 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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QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0708672

EPA Method E200.8	Extraction E200.8				BatchID: 30190			Spiked Sample ID: 0708687-001B			
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	114	114	0	112	110	1.44	70 - 130	20	80 - 120	20

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

NONE

BATCH 30190 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708672-004C	08/23/07	08/23/07	08/23/07 11:26 PM	0708672-005C	08/23/07	08/23/07	08/23/07 11:31 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.

DHS ELAP Certification N° 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0708672

EPA Method SW8015C	Extraction SW3550C	BatchID: 30136	Spiked Sample ID: 0708493-009A

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)	22	20	NR	NR	NR	120	120	0	70 - 130	30	70 - 130	30
%SS:	92	50	91	92	0.707	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 30136 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708672-001A	08/23/07	08/23/07	08/23/07 7:34 PM				

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

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

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

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

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

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0708672

EPA Method SW8015C	Extraction SW3550C				BatchID: 30187			Spiked Sample ID: N/A				
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)	N/A	20	N/A	N/A	N/A	109	107	1.77	N/A	N/A	70 - 130	30
%SS:	N/A	50	N/A	N/A	N/A	90	90	0	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 30187 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708672-002A	08/23/07	08/23/07	08/23/07 8:43 PM	0708672-003A	08/23/07	08/23/07	08/23/07 9:52 PM

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

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

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

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

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