FUGRO WEST, INC.

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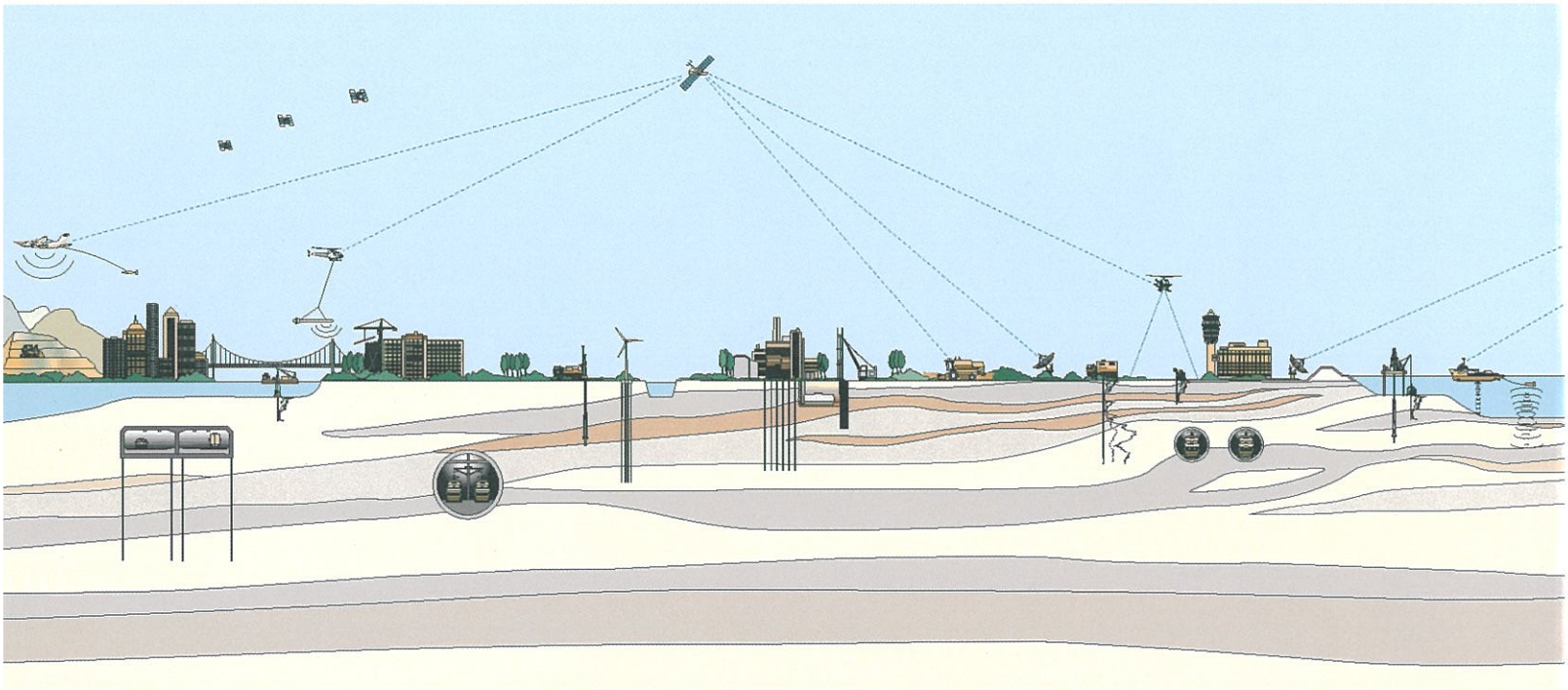
PHASE 2 ENVIRONMENTAL SITE ASSESSMENT
CHESTNUT PARCELS
1715 – 1763 CHESTNUT STREET
217 AND 242 NORTH N STREET
AND 241 NORTH M STREET
LIVERMORE, CALIFORNIA

Prepared for:
LIVERMORE REDEVELOPMENT AGENCY

JANUARY 2008

Fugro Project No. 1121.014

Under the USEPA Brownfield Grant
(Assistance ID No. BF-04-476)



FUGRO WEST, INC.

1000 Broadway, Suite 440
Oakland, California 94607
Tel: (510) 268-0461
Fax: (510) 268-0545

January 29, 2008
Project No. 1121.014

U.S. Environmental Protection Agency
75 Hawthorne Street, SFD-1
San Francisco, California 94105

Attention: Ms. Gail Jones

Subject: Phase 2 Environmental Site Assessment – Chestnut Parcels,
1715 - 1763 Chestnut Street, 217 and 242 North N Street, and 241 North M Street,
Livermore, California

Dear Ms. Jones:

Please find attached one copy of the Phase 2 Environmental Site Assessment report for the Chestnut Parcels Site in Livermore, California. Fugro West, Inc., (Fugro) completed the assessment and prepared this report on behalf of the Livermore Redevelopment Agency. The purpose of the environmental site assessment was to evaluate the potential presence of hazardous materials in soil and groundwater at the subject site. Results of this assessment will assist the Agency with implementing its Downtown Specific Plan and the Livermore Redevelopment 5-Year Implementation Plan, dated October 23, 2004.

This investigation was completed in accordance with the Sampling and Analysis Plan (SAP) dated August 4, 2005, and the SAP Amendment dated November 27, 2007. The SAP and SAP Amendment were prepared by Fugro and approved by the United States Environmental Protection Agency prior to implementation. The results of Fugro's site assessment activities are, in our professional judgment, representative of the soil and groundwater conditions at the subject site.

Should you have any questions, comments, or require additional information, please contact the undersigned at (510) 268-0461.

Sincerely,
FUGRO WEST, INC.

Karen A. Emery
Staff Geologist

PROFESSIONAL GEOLOGIST
GLENN S. YOUNG
No. 6406
Exp. 9.30.08
STATE OF CALIFORNIA

Glenn S. Young, P.G.
Principal Geologist

KAE/GSY:ej
Copies Submitted: (1 hardcopy and CD) Addressee
(3 hardcopies and CD) Ms. Chris Davidson, Livermore Redevelopment Agency
(1 hardcopy) Mr. Wyman Hong, Livermore-Amador Valley Zone 7 Water Agency

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LIST OF ACRONYMS AND ABBREVIATIONS

ACM	Asbestos Containing Materials
Agency	Livermore Redevelopment Agency
bgs	Below ground surface
DQI	Data Quality Indicators
ESA	Environmental Site Assessment
ESLs	Environmental Screening Levels
Fugro	Fugro West, Inc.
HSP	Health and Safety Plan
LBP	Lead Based Paint
MCL	Maximum Contaminant Levels
µg/kg	Micrograms per kilogram
µg/l	Micrograms per liter
mg/kg	Milligrams per kilogram
MTBE	methyl tertiary butyl ether
OVM	Organic Vapor Meter
PCE	Tetrachloroethene
ppm	Parts per million
PRG	Preliminary Remedial Goals
QA/QC	Quality Assurance/Quality Control
RPD	Relative Percent Difference
RWQCB	Regional Water Quality Control Board
SAP	Sampling and Analysis Plan
Site	Chestnut Parcels – 1715 - 1763 Chestnut Street, 217 and 242 North N Street, and 241 North M Street, Livermore, California
TCE	Trichloroethene
TPH	Total Petroleum Hydrocarbons
TPHg	Total Petroleum Hydrocarbons as gasoline
TPHd	Total Petroleum Hydrocarbons as diesel fuel
TPHmo	Total Petroleum Hydrocarbons as motor oil
TRPH	Total Recoverable Petroleum Hydrocarbons
USA	Underground Services Alert
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
USCS	Unified Soil Classification System
VOCs	Volatile Organic Compounds

EXECUTIVE SUMMARY

With this report, Fugro West, Inc., (Fugro) presents the results of environmental site assessment activities completed at the Chestnut Parcels located at 1715 – 1763 Chestnut Street, 217 and 242 North N Street, and 241 North M Street in Livermore California (Site). This Phase 2 Environmental Site Assessment (ESA) was conducted on behalf of the Livermore Redevelopment Agency (Agency), which received funding for this work from a U.S. Environmental Protection Agency (USEPA) Brownfield Grant (Assistance ID No. BF-04-476). The purpose of this ESA was to evaluate the potential presence of hazardous materials in soil and groundwater at the subject site. Results of this investigation will be used to assist the Agency with proposed redevelopment in the downtown Livermore area, and general implementation of their Downtown Specific Plan and the Livermore Redevelopment 5-Year Implementation Plan dated October 23, 2004.

Fugro's Phase I ESA dated November 30, 2007, identified historical site uses that included the presence of a machine shop at 241 North M Street, as well as recognized environmental conditions that included the following:

- The material threat of a release of chlorinated solvents to soil and groundwater resulting from the machine shop operations.
- Potential petroleum hydrocarbons and volatile organic compounds (VOCs) impacts to groundwater from a former oil storage building with oil underground tanks located adjacent and east of the Site.
- Potential impacts associated with the railroad tracks located south of the Site.
- Potential petroleum hydrocarbons and VOCs impacts to groundwater from a release at 2008 First Street, which is upgradient from the Site.

Based on findings of the Phase 1 ESA, Fugro compiled the Sampling and Analysis Plan (SAP) Amendment dated November 2007. The SAP Amendment was approved by the USEPA in their letter dated December 3, 2007. The Phase 2 ESA was completed in general conformance with the SAP with the following deviations:

- Borings A1-1 and A1-2 were advanced to 55 feet rather than 50 feet because groundwater was deeper than anticipated (approximately 49 to 53.5 feet below ground surface).
- Surface soil samples collected from borings A1-2 and DP1-6 were submitted for CAM 17 metal analysis rather than arsenic and lead as cited in the SAP due to the close proximity to the railroad tracks south of the Site.
- Analytical results were compared to the recently issued San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels – Interim Final November 2007, rather than the ESLs issued in February 2005.

Subsurface conditions generally comprised 6 inches of asphalt underlain by loose to medium dense, brown sandy silt with gravel to silty clay with gravel to depths of up to 25 feet, which was underlain by dense, sandy gravel to clayey gravel. Groundwater was encountered at

depths ranging from 49 to 53.5 feet below ground surface (bgs). Fugro's field geologist encountered no hydrocarbon or solvent odors in any of the soil samples screened. The highest OVM reading in any of the samples was approximately 1.1 parts per million (ppm). No odors or free phase hydrocarbons were detected or observed in any of the grab groundwater samples collected.

Sampling and laboratory services were completed in general conformance with the Data Quality Objectives stated in the SAP Amendment. Laboratory reports were 100 percent complete and analysis detected no contaminants in the trip blanks. Duplicate groundwater results were within acceptable relative percent difference (RPD) criteria (20 percent). Chemical data generated during this investigation is considered to be complete, accurate, representative, and suitable for the purposes of this Phase 2 ESA.

Except for acetone, chemical analysis detected no other VOC in any of the soil samples tested. Analyses detected acetone concentrations of 84 micrograms per kilogram (µg/kg) within the surface sample collected from boring DP1-4. Sample DP1-4 was collected in the paved parking area immediately north of the vacant lot at 217 North N Street. The source of the detected acetone is unknown at this time; however, concentrations were below the Environmental Screening Criteria (ESL) for residential and commercial land use. Additionally, no concentrations of total petroleum hydrocarbons as gas, diesel, or motor oil (TPHg, TPHd, or TPHmo) were detected in soil samples A1-2 @2 and A1-2 @ 7.5, collected near the machine shop property. We note that we were unable to access the machine shop nor take soil or groundwater samples from that property. A Limited Subsurface Assessment was performed by others inside the machine shop in May 2006. No detectable concentrations of VOCs and low concentrations of TRPH were reported in the soil samples collected. No groundwater was collected during the assessment.

Except for arsenic, detected metal concentrations, including lead, were similar to anticipated background concentrations and below their respective ESLs for residential and commercial land use. It is generally accepted that arsenic concentrations within the San Francisco Bay Region are higher than the ESLs for commercial and residential scenarios. Typically, arsenic concentrations less than 20 milligrams per kilogram (mg/kg) are considered to be background concentrations. Total arsenic and lead concentrations in soil samples did not exceed TTLC criteria, one of the criteria used to classify a soil as hazardous waste in the State of California.

For groundwater, analysis of grab groundwater samples detected concentrations of PCE ranging from 1.9 micrograms per liter (µg/l) in sample A1-2 to 16 µg/l in sample A1-1. Analysis also detected 2.2 µg/l of tert-Butylbenzene in the grab groundwater sample collected from boring A1-2. No other VOCs were detected in the groundwater samples. PCE concentrations detected in the grab groundwater sample collected from boring A1-1 exceeded the drinking water Maximum Contaminant Level (MCLs) but were below the ESLs for the protection of indoor air for both commercial and residential scenarios. No ESLs have been established for tert-Butylbenzene; however, detected concentrations of tert-Butylbenzene were well below the Preliminary Remedial Goal (PRG) of 240 µg/l. The source of detected VOCs is unknown.

In Fugro's opinion, detected VOC concentrations in groundwater do not pose a significant risk to human health for the current or anticipated site users.

1.0 INTRODUCTION

This report presents the results of Phase 2 Environmental Site Assessment (ESA) activities conducted by Fugro West, Inc., (Fugro) at the Chestnut Parcels site located at 1715 – 1763 Chestnut Street, 217 and 242 North N Street, and 241 North M Street in Livermore California (Site). This ESA was conducted on behalf of the Livermore Redevelopment Agency (Agency), which received funding from a USEPA Brownfield Grant (Assistance ID No. BF-04-476).

This investigation was conducted based on findings in a recent Phase 1 ESA conducted by Fugro (November 2007) and was completed in accordance with Fugro's Sampling and Analysis Plan (SAP) dated August 2005, and SAP Amendment dated November 2007. The SAP Amendment was approved by the United States Environmental Protection Agency (USEPA), prior to implementation. As described in the Phase I ESA and SAP Amendment, historical site uses included a machine shop at 241 North M Street. In addition, a railroad spur followed by railroad tracks is located south of the Site. No known leaks, spills, or releases were identified at the Site in our review of historical environmental databases.

The purpose of this Phase 2 ESA was to evaluate existing soil and groundwater conditions; to determine whether hazardous materials from historical operations have impacted the Site; evaluate the potential for VOC impact from the machine shop onsite; evaluate whether metals are present within the shallow fill/soil; and, if contaminants are present, evaluate whether detected contaminants represent a significant risk to current and/or anticipated future site users, including construction workers, commercial users, and residents at the planned development. Results of this report will be used to assist the Agency with their Downtown Specific Plan and the Livermore Redevelopment 5-year Implementation Plan dated October 23, 2004.

2.0 LIMITATIONS

Fugro has prepared this report in a professional manner, using that degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. Fugro shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time the report was prepared. Fugro also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report. Fugro believes that conclusions stated wherein to be factual, but no guarantee is made or implied. This report has been prepared for the benefit of the Livermore Redevelopment Agency.

The information contained in this report, including all exhibits and attachments, may not be used by any party other than the Agency, without the express written consent of Fugro West, Inc.

3.0 SITE DESCRIPTION

The Site is situated on five parcels located within Livermore's Downtown Redevelopment Area. The Site is comprised of three commercial/retail buildings [Building 1 (1715 – 1759 Chestnut Street); Building 2 (1763 Chestnut Street); and Building 3 (241 North M Street)], paved parking lots, and vacant land. The Site parcels are located on both sides of N Street and form an irregularly shaped area containing approximately 2.59 acres (Plate 1). Existing improvements on the Site include three one-story commercial/retail buildings housing various tenants. The remainder of the Site consisted of paved parking and three vacant lots. Occupants of the three buildings include:

- Super Nails, a nail shop, at 1715 Chestnut Street (Building 1);
- A vacant barber shop at 1721 Chestnut Street (Building 1);
- Brite and Clean, a laundromat at 1725-1737 Chestnut Street (Building 1);
- FE Oriental Grocery, an Asian grocery store at1759 Chestnut Street (Building 1);
- Lifestyle Fitness at 1763 Chestnut Street (Building 2); and
- D & M Auto Parts, an auto parts machine shop, at 241 North M Street (Building 3).

4.0 HISTORICAL SITE USE AND RECOGNIZED ENVIRONMENTAL CONDITIONS

Details regarding historical site uses and recognized environmental conditions are detailed in Fugro's Phase1 ESA dated November 21, 2007.

Based on information obtained during the Phase 1 ESA, this property was undeveloped until sometime after 1917. From 1917 up until the present, multiple railroad tracks ran immediately south of the Site. The City Directory contained records for various occupants from 1965 through 1972, including residential and retail/commercial users.

A Limited Subsurface Assessment was conducted by others in May 2006 (Engeo 2006). Shallow soil samples were collected inside the machine shop and analyzed for VOCs and total recoverable petroleum hydrocarbons (TRPH). No groundwater samples were collected during that assessment. Chemical analyses reported no concentrations of VOCs and low concentrations of TRPH (140 mg/kg to 230 mg/kg) in two of the eight shallow soil samples tested. A copy of the report is included in Appendix D.

In general, available historical information indicates that properties in and around the subject site have been used as residential, light industrial, and commercial sites since the late 1800s. Use of surrounding properties consisted of commercial and light industrial use, including: numerous markets, beauty salons, barbershops, clothiers, dry cleaners, and pressers. Currently, the adjacent properties are primarily used for residential and retail/commercial purposes. No environmentally sensitive businesses, such as service stations, dry cleaners, or manufacturing facilities, were identified for the immediately adjacent properties.

A former oil storage building was noted in a 1917 Sanborn Map located adjacent and southeast of the Site. Because this building was located in the upgradient direction, it is considered to represent a recognized environmental condition.

In summary, based on the findings of the Phase 1 ESA, Fugro's experience with similar sites in urbanized areas, including Livermore, the historical uses of the Downtown Area and results of previous investigations at nearby properties indicate that soil and/or groundwater in portions of the Downtown Area have been impacted to some degree with lead, petroleum hydrocarbons, and/or dry cleaner solvents such as PCE.

5.0 SITE ASSESSMENT ACTIVITIES

Fugro conducted this soil and groundwater investigation in conformance with the SAP dated August 2005, and the SAP Amendment dated November 2007.

5.1 DEVIATIONS FROM THE SAP AMENDMENT

Deviations from the SAP Amendment include the following:

- Borings A1-1 and A1-2 were advanced to 55 feet rather than 50 feet because groundwater was deeper than anticipated (approximately 49 to 53.5 feet below ground surface).
- Surface soil samples collected from borings A1-2 and DP1-6 were submitted for CAM 17 metal analysis rather than arsenic and lead as cited in the SAP due to the close proximity to the railroad tracks south of the Site.
- Analytical results were compared to the recently issued San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels – Interim Final November 2007, rather than the ESLs issued in February 2005.

Fugro considers these deviations to be appropriate and consistent with the intent of the Phase 2 ESA.

5.2 SAMPLING ACTIVITIES

Fugro's site assessment activities focused on evaluating existing soil and groundwater conditions to determine whether hazardous materials are present and, if so, whether they represent a significant risk to current and/or anticipated site users, including construction workers, commercial, and residential users. In general, soil assessment focused on the presence of metals and VOCs in surface and near-surface soil that may be excavated during the redevelopment activities. Groundwater assessment activities focused on evaluating VOC concentrations near the machine shop at the Site.

Prior to commencement of fieldwork, Fugro obtained a drilling permit from the Livermore-Amador Valley Zone 7 Water Agency. A copy of the permit is presented in Appendix A. Fugro also retained a private utility locator to clear all proposed sampling locations

and alerted the Underground Service Alert (USA) at least 48 hours prior to intrusive field activities.

Field activities were conducted on December 3 and 4, 2007, using standard industry practices regarding worker health and safety. Precision Sampling Inc., a State of California licensed drilling contractor, conducted drilling activities at the Site using hollow-stem-auger and direct push drilling methods. Fieldwork included the completion of two hollow-stem-auger borings (A1-1 and A1-2) to 55 feet bgs as well as six direct push borings (DP1-1 through DP1-6) to 15 feet bgs. Boring locations are presented on Plate 2.

Because we could not access the 241 North M Street property, grab groundwater samples were collected from two offsite locations (A1-1 and A1-2). Boring A1-2 was completed southeast (upgradient) of the existing machine shop at 241 North M Street and was completed in tandem with Boring A1-1, located downgradient of the machine shop. Groundwater sampling was completed at both up- and downgradient locations to aid in the determination of whether solvents in groundwater originated as a result of the machine shop activities. Borings DP1-1 through DP1-6 were completed at various locations around Buildings 1 and 2 to evaluate whether metals and/or VOCs were present in the surface and near surface soil.

Drilling and sampling activities were conducted under the supervision of Fugro's field personnel. Fugro's field geologist logged each boring in accordance with the Unified Soil Classification System (USCS) and screened soil samples in the field using an Organic Vapor Meter (OVM). Discrete soil samples were collected from a variety of depths from each boring depending on field sample recovery. In general, soil samples were collected from 0.0, 0.5, 2, 5, 7.5, 10 and 15 feet within the direct push borings. Discrete soil samples collected from A1-1 and A1-2 were collected at the depths listed above as well as every five feet thereafter until groundwater was encountered.

At Borings A1-1 and A1-2, groundwater was encountered at depths of 49 to 53.5 feet bgs, respectively. The borings were completed to 55 feet; and 2-inch PVC casing, slotted between 50 to 55 feet, was installed to facilitate collection of grab groundwater samples. Grab groundwater samples were collected using a clean disposable bailer. PVC casing was removed once the grab groundwater samples were collected. All borings were backfilled with neat cement grout and capped with an asphalt patch upon completion.

Soil cuttings were placed in Department of Transportation-approved and labeled 55-gallon drums, which were stored at the City of Livermore's Water Resources Division, pending chemical classification and offsite disposal.

6.0 CHEMICAL TESTING PROGRAM

Soil and groundwater samples were stored in ice-chilled coolers and transported under chain-of-custody documentation to Test America Laboratories (formerly STL), a State of California-certified testing laboratory. Results of chemical analyses are discussed in Section 8.0.

6.1 SOIL SAMPLES

A total of 24 soil samples were submitted for chemical analyses. In accordance with our SAP, samples were analyzed for some or all of the following:

- Total petroleum hydrocarbons as gasoline (TPHg) using EPA Method 8015m;
- Total petroleum hydrocarbons as diesel (TPHd) and motor oil (TPHmo) using EPA Method 8015m with silica gel cleanup;
- Volatile Organic Compounds (VOCs) using EPA Method 8260;
- 17 Title 22 metals using EPA Methods 6010/7000 series;
- Total Arsenic using EPA Method 6010/7000; and
- Total Lead using EPA Method 6010/7000.

6.2 GROUNDWATER SAMPLES

A total of two grab groundwater samples were submitted for chemical analysis, not including two duplicate samples and two trip blank samples collected for QA/QC purposes. The two samples were analyzed for the following:

- VOCs using EPA Method 8260.

6.3 FIELD QUALITY CONTROL SAMPLES

Fugro implemented QA/QC procedures during this field investigation in accordance with the SAP and SAP Amendment. A total of two duplicate groundwater samples were collected and analyzed as quality control samples in accordance with the SAP.

The duplicate groundwater samples were collected at a rate of one per day and were tested for VOCs. Groundwater sampling was conducted using new disposable Teflon bailers; therefore, no equipment blanks were collected during the groundwater portion of the investigation.

Fugro also tested two trip blanks samples for VOCs to confirm that no sample contamination occurred during sample transport. Samples were submitted along with grab groundwater samples that were collected during drilling activities at another project Site (2044 and 2048 First Street), and are also included with a report for that project.

7.0 SUBSURFACE CONDITIONS

Subsurface conditions generally comprised 6 inches of asphalt underlain by loose to medium dense, brown sandy silt with gravel to silty clay with gravel to depths of up to 25 feet, which was underlain by dense, sandy gravel to clayey gravel. Fugro's field geologist encountered no hydrocarbon or solvent odors in any of the soil samples screened. The highest OVM reading in any of the samples was approximately 1.1 ppm. Logs of borings are presented in Appendix B.

Groundwater was encountered at depths ranging fro 49 the 53.5 feet bgs, approximately 10 feet deeper than observed at nearby properties in the recent past. No odors or free phase hydrocarbons were detected or observed in any of the grab groundwater samples collected.

8.0 RESULTS OF ANALYSES

This Section presents results of analyses, including a discussion of the data validation and QA/QC program as well as summaries, and findings of the soil and groundwater sampling. As described in the SAP, results of analyses were compared to ESLs established by the San Francisco Bay Regional Water Quality Control Board (RWQCB) or PRGs established by the USEPA.

8.1 QUALITY CONTROL AND DATA VALIDATION

Fugro implemented QA/QC and conducted data validation in accordance with the SAP. The objectives of the QA/QC and data validation were to obtain and present accurate, precise, and complete data. Based on our review of the overall field and laboratory QA/QC protocols, data validation and findings, Fugro judges that soil and groundwater sampling conformed with the objectives stated in the SAP, and that the samples and resulting chemical analyses are representative of site conditions. In Fugro's opinion, the analytical data are considered acceptable for the purposes of this Phase 2 ESA. Laboratory and field QC sampling and analyses are discussed below.

8.1.1 Laboratory QA/QC Samples

To assess the accuracy of the laboratory data, Fugro reviewed the laboratory reports to confirm compliance with the laboratory's own QA/QC limits. For the soil and groundwater samples, Test America's QA/QC reports indicated no exceptions to compliance with their own QA/QC limits. In general, Test America noted no QA/QC problems for EPA Methods 6010/7000, however, because sediment filled half of the vial from the sample collected from Boring A1-1, there was not enough sample to test without dilution; therefore, the reporting limit for Method 8260B was raised. The increased reporting limits for Method 8260 were still below the USEPAs Data Quality Indicators (DQIs) presented in the SAP Amendment.

With respect to the laboratories matrix spike and matrix spike duplicate samples, Test America noted that with Method 6010B the matrix spike/matrix spike duplicate recoveries for batch 29319 were outside control limits. The associated laboratory control standard met acceptance criteria. Test America also noted the same for Method 8260B and batch 30066. Fugro's review of the QA/QC reports noted no exceptions to these conclusions. Therefore, results of laboratory QA/QC analyses are considered to be accurate and precise for the purposes of this investigation.

To assess the completeness of the data, Fugro checked 100 percent of the laboratory reports for soil, and groundwater samples, and found that all requested tests were completed. Therefore, the chemical reports are considered to be complete.

8.1.2 Field Quality Control Samples

To assess field procedures and laboratory accuracy, Fugro collected two duplicate groundwater samples. These duplicate samples were tested for VOCs. For the duplicate samples, analyses detected PCE concentrations with a RPD ranging from 10 to 11.8 percent. Analyses also detected tert-Butylbenzene concentrations with a RPD of 20.4 percent. Results of the RPD calculations are presented in Table 1. With the exception of tert-Butylbenzene at 20.4 percent, which is considered to be minor and therefore does not warrant a corrective action, the calculated RPD values are consistent with the specified RPD of 20 percent.

Fugro also tested two trip blank samples for VOCs during this investigation. The sample submitted on December 4, 2007 was submitted along with grab groundwater samples that were collected during drilling activities at 2044 and 2048 First Street and are also included with that report. Results of chemical analysis detected no VOCs in either trip blank, confirming that samples were not contaminated during sample transport.

8.2 RESULTS OF CHEMICAL ANALYSIS - SOIL

Analytical reports from Test America are presented in Appendix C. Results of chemical analyses for soil samples are summarized in Table 2 and are discussed below.

Except for acetone, chemical analysis detected no VOCs in any of the soil samples tested. Analyses detected acetone concentrations of 84 µg/kg within the surface sample collected from Boring DP1-4. Sample DP1-4 was collected in the paved parking area immediately north of the vacant lot at 217 North N Street. The source of the detected acetone is unknown at this time; however, concentrations were below the ESL residential and commercial land use. Additionally, no concentrations of TPHg, TPHd, or TPHmo were detected in soil samples A1-2 @2 and A1-2 @ 7.5, collected near the machine shop property.

Except for arsenic, detected metal concentrations, including lead, were similar to anticipated background concentrations and below their respective ESLs for commercial and residential land use. Analyses indicated arsenic concentrations within all soil samples collected from the Site ranging from 2.6 mg/kg to 5.4 mg/kg. It is generally accepted that arsenic concentrations within the San Francisco Bay Region are higher than the ESLs for commercial and residential scenarios, and typically arsenic concentrations less than 20 mg/kg are considered to be background concentrations.

8.3 RESULTS OF CHEMICAL ANALYSIS - GROUNDWATER

Results of chemical analysis conducted for groundwater samples during this investigation are summarized in Table 3 and are discussed below.

Analyses detected concentrations of PCE ranging from 1.9 µg/l in Sample A1-2 to 16 µg/l in Sample A1-1. Analysis also detected 2.2 µg/l of tert-Butylbenzene in the grab groundwater sample collected from Boring A1-2. No other VOCs were detected in the grab groundwater samples. PCE concentrations detected in the grab groundwater sample collected

from Boring A1-1 exceed the drinking water MCLs but are below the ESLs for the protection of indoor air for both commercial and residential land uses. Since ESLs have not been established, detected concentrations of tert-Butylbenzene were compared to PRGs established by the USEPA. The detected tert-Butylbenzene concentration is well below the residential PRG criteria of 240 μg/l. The source of the detected VOCs is unknown.

9.0 CONCLUSIONS

Fugro concludes that the site investigation was completed in general conformance with the SAP. In our opinion, the resulting findings adequately characterize site conditions. The following summarizes the historical site uses, subsurface conditions, and results of analyses for this investigation.

9.1 SUBSURFACE CONDITIONS

Subsurface conditions generally comprised 6 inches of asphalt underlain by loose to medium dense, brown sandy silt with gravel to silty clay with gravel to depths of up to 25 feet, which was underlain by dense, sandy gravel to clayey gravel. Groundwater was encountered at depths ranging from 49 to 53.5 feet below ground surface. Fugro's field geologist encountered no hydrocarbon or solvent odors in any of the soil samples screened. The highest OVM reading in any of the samples was approximately 1.1 ppm. No odors or free phase hydrocarbons were detected or observed in any of the grab groundwater samples collected.

9.2 CHEMICAL FINDINGS

For soil, analyses detected concentrations of acetone within the surface sample collected from DP1-4, located in the paved parking area immediately north of the vacant lot at 217 North N Street. The source of the detected acetone is unknown at this time; however, concentrations were below the ESL for residential and commercial land use. Except for acetone, chemical analysis detected no other VOC in any of the soil samples tested. Additionally, no concentrations of TPHg, TPHd, or TPHmo were detected in soil samples A1-2 @2 and A1-2 @ 7.5 collected near the machine shop.

Analysis detected various heavy metals in all samples tested. Except for arsenic, detected metal concentrations, including lead, were below their respective ESLs for residential and commercial land use. Additionally, detected metals concentrations were similar to anticipated background concentrations. Total arsenic and lead concentrations do not exceed TTLC criteria, one of the criteria used to classify a soil as hazardous waste in the State of California.

For groundwater, analysis of grab groundwater samples detected concentrations of PCE ranging from 1.9 μg/l in Sample A1-2 to 16 μg/l in Sample A1-1. Analysis also detected 2.2 μg/l of tert-Butylbenzene in the grab groundwater sample collected from boring A1-2. No other VOCs were detected in the groundwater samples.

PCE concentrations detected in the grab groundwater sample collected from boring A1-1 exceed the drinking water MCLs but are below the ESLs for the protection of indoor air for both commercial and residential scenarios. Since ESLs have not been established, detected concentrations of tert-Butylbenzene were compared to PRGs established by the USEPA. The detected tert-Butylbenzene concentration is well below the residential PRG criteria of 240 μg/l. The source of the detected VOCs is unknown.

10.0 RECOMMENDATIONS

Fugro recommends no further investigation at this time. However, due to the historical machine shop uses, a reconnaissance and subsurface investigation is recommended prior to redevelopment of the 241 North M Street property. As indicated in the Phase 1 ESA, there is a potential that asbestos containing materials (ACM) and lead-based paint (LBP) are present on the Site based on the age of the existing buildings. Fugro recommends that ACM and LBP surveys be conducted prior to demolition of the buildings.

We recommend that development plans should incorporate standard dust control measures during construction to reduce the nuisance exposure to construction workers and the general public during intrusive activities. Copies of this report should be provided to the contractor performing construction at the Site.

Based on results of analyses and our experience at similar sites, with similar conditions, soil excavated from the Site will likely be considered a non-hazardous waste and will be suitable for disposal at a Class 2 or Class 3 landfill. However, soil sampling at the 241 North M Street property is recommended to confirm that conclusion prior to redevelopment.

If staining, chemical odors, underground storage tanks (USTs), or other signs of contamination and/or contaminated material are encountered during construction, the contractor should notify the Agency of those conditions and appropriate precautions, investigation, and/or mitigation should be implemented.

If proposed redevelopment involves dewatering and/or groundwater handling, appropriate planning, permitting, and likely treatment of that groundwater will be required prior to discharge. Any dewatering planned for the Site should consider the presence of PCE in groundwater as well as the proximity to hydrocarbon contamination at the nearby 2008 First Street property.

11.0 REFERENCES

Engeo Incorporated, Limited Subsurface Assessment, M Street Parcel, 241 North M Street, Livermore, California, dated May 22, 2006

Fugro West Inc, Sampling and Analysis Plan, Hazardous Materials Properties Downtown Redevelopment Area, Livermore, California, dated August 4, 2005

Fugro West Inc, Amendment to Sampling and Analysis Plan, Hazardous Materials Properties Downtown Redevelopment Area, Livermore, California, dated November 27, 2007

Fugro West Inc, Phase I Environmental Site Assessment, 1715 - 1779 Chestnut Street, 217 and 242 North N Street, and 241 North M Street, Livermore, California, dated November 30, 2007

San Francisco Bay Regional Water Quality Control Board, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater-Interim Final – November 2007.

TABLES

Table 1
Summary of Quality Control Sample Results
Chestnut Parcels
Livermore California
Fugro Project No. 1121.014

Duplicate Groundwater Samples

		Sample ID		RPD (%)	RPD Goal (%)	Sample ID		RPD (%)	RPD Goal (%)
Analyte	Units	A1-1	A1-1 Dup			A1-2	A1-2 Dup		
PCE	ug/l	16	18	11.8	< 20	1.9	2.1	10	< 20
tert-Butylbenzene	ug/l	NA	NA	NA	< 20	2.2	2.7	20.4	< 20

Trip Blanks

		Sample ID	
Analyte	Units	Trip Blank 12/3/07	Trip Blank 12/4/07
VOCs	ug/l	ND	ND

Notes
VOCs = Volatile Organic Compounds
PCE = Tetrachloroethene
ug/L = micrograms per liter
NA = Not applicable
ND = Not detected
RPD = Relative percentage difference

Table 2
Summary of Analytical Data - Soil
Chestnut Parcels
Livermore, California
Fugro Project No. 1121.014

		Soil Sample ID and Depth in Feet																						Environmental Screening Levels		
Analyte	Units	A1-1 @0	A1-1 @2	A1-1 @7.5	A1-2 @0	A1-2 @2	A1-2 @7.5	DP1-1 @0	DP1-1 @2	DP1-1 @7.5	DP1-2 @0	DP1-2 @2	DP1-2 @7.5	DP1-3 @0	DP1-3 @2	DP1-3 @7.5	DP1-4 @0	DP1-4 @2	DP1-4 @7.5	DP1-5 @0	DP1-5 @2	DP1-5 @7.5	DP1-6 @0	DP1-6 @2	DP1-6 @7.5	Residential Land Use*	Commercial Land Use*	Construction Worker Direct Contact**
Metals																											
Antimony	mg/kg	--	--	--	<2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.0	--	--	6.1	77	280
Arsenic	mg/kg	**3.4**	**3.7**	**2.8**	**3.9**	**3.9**	**2.6**	**3.5**	**3.6**	**2.6**	**3.8**	**4.0**	**3.5**	**3.9**	**4.6**	**3.4**	**2.7**	**3.6**	**5.0**	**5.4**	**3.5**	**3.2**	**4.5**	**4.2**	**4.4**	0.38	1.5	14
Barium	mg/kg	--	--	--	**160**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**210**	--	--	2900	32000	2600
Berylliuym	mg/kg	--	--	--	<0.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.54**	--	--	30	370	98
Cadmium	mg/kg	--	--	--	<0.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.5	--	--	1.7	7.4	39
Chromium[1]	mg/kg	--	--	--	**58**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**63**	--	--	23000	290,000	1,100,000
Cobalt	mg/kg	--	--	--	**14**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**16**	--	--	270	1900	94
Copper	mg/kg	--	--	--	**28**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**33**	--	--	6100	77000	28000
Lead	mg/kg	**4.5**	**4.6**	**3.8**	**5.6**	**4.8**	**2.3**	**4.8**	**4.2**	**2.9**	**5.3**	**5.6**	**4.5**	**5.2**	**5.4**	**2.9**	**8.9**	**4.9**	**4.1**	**44**	**4.8**	**3.3**	**6.2**	**5.6**	**5.5**	200	750	750
Molybdenum	mg/kg	--	--	--	<1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.0	--	--	76	960	3600
Mercury	mg/kg	--	--	--	<0.049	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.051	--	--	1.0	11	33
Nickel	mg/kg	--	--	--	**120**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**120**	--	--	300	3400	260
Selenium	mg/kg	--	--	--	<2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.0	--	--	76	960	3600
Silver	mg/kg	--	--	--	<1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.0	--	--	76	960	3600
Thallium	mg/kg	--	--	--	<1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.0	--	--	1.2	15	57
Vanadium	mg/kg	--	--	--	**25**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**29**	--	--	15	190	710
Zinc	mg/kg	--	--	--	**41**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**42**	--	--	4600	58000	210000
Hydrocarbons																												
TPHg	mg/kg	--	--	--	**--**	<0.21	<0.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	110	450	4200000
TPHd	mg/kg	--	--	--	**--**	<0.99	<0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	110	150	150000
TPHmo	mg/kg	--	--	--	**--**	<50	<50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	410	4600	15000000
VOCs																												
Acetone	ug/kg	<50	<49	<48	<49	<49	<49	<49	<50	<48	<48	<50	<49	<50	<48	<49	**84**	<48	<49	<49	<49	<50	<49	<48	<50	2,600,000	10,000,000	100,000,000
Remaining VOCs	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA

Notes

TPHg = Total petroleum hydrocarbons as gasoline
TPHd = Total petroleum hydrocarbons as diesel
TPHmo = Total petroleum hydrocarbons as motor oil
VOCs = Volatile Organic Compounds
<25 = Not detected above laboratory detection limit
ND = Not detected except for chemicals listed below
NA = Not applicable
[1] = Assumes Chromium III
-- = Not analyzed

ESL = Environmental Screening Levels established by the San Francisco Bay Regional Water Quality Control Board
* = Table A: ESL for Residential and Commercial Land Use Interim Final - November 2007
** = Table K-3: ESL for Direct Exposure for Construction Worker Exposure Scenario
Interim Final - November 2007

Table 3
Summary of Analytical Data - Groundwater
Chestnut Parcels
Livermore, California
Fugro Project No. 1121.014

		Sample ID		Environmental Screening Levels			PRGs
Analyte	Units	A1-1	A1-2	Drinking Water*	Residential Indoor Air**	Commercial Indoor Air***	Residential
VOCs							
PCE	ug/l	**16**	**1.9**	5	120	420	NA
tert-Butylbenzene	ug/l	<2.0	**2.2**	NE	NE	NE	240

Notes

VOCs = Volatile organic compounds

PCE = Tetrachloroethene

ug/l = Micrograms per liter

<25 = Not detected above laboratory detection limit

NA = Not applicable

NE = Not established

PRGs = Preliminary Remediation Goals established by the USEPA Region IX, October 2004.

ESL = Environmental Screening Levels established by the SFBRWQCB

SFRWQCB = San Francisco Bay Regional Water Quality Control Board

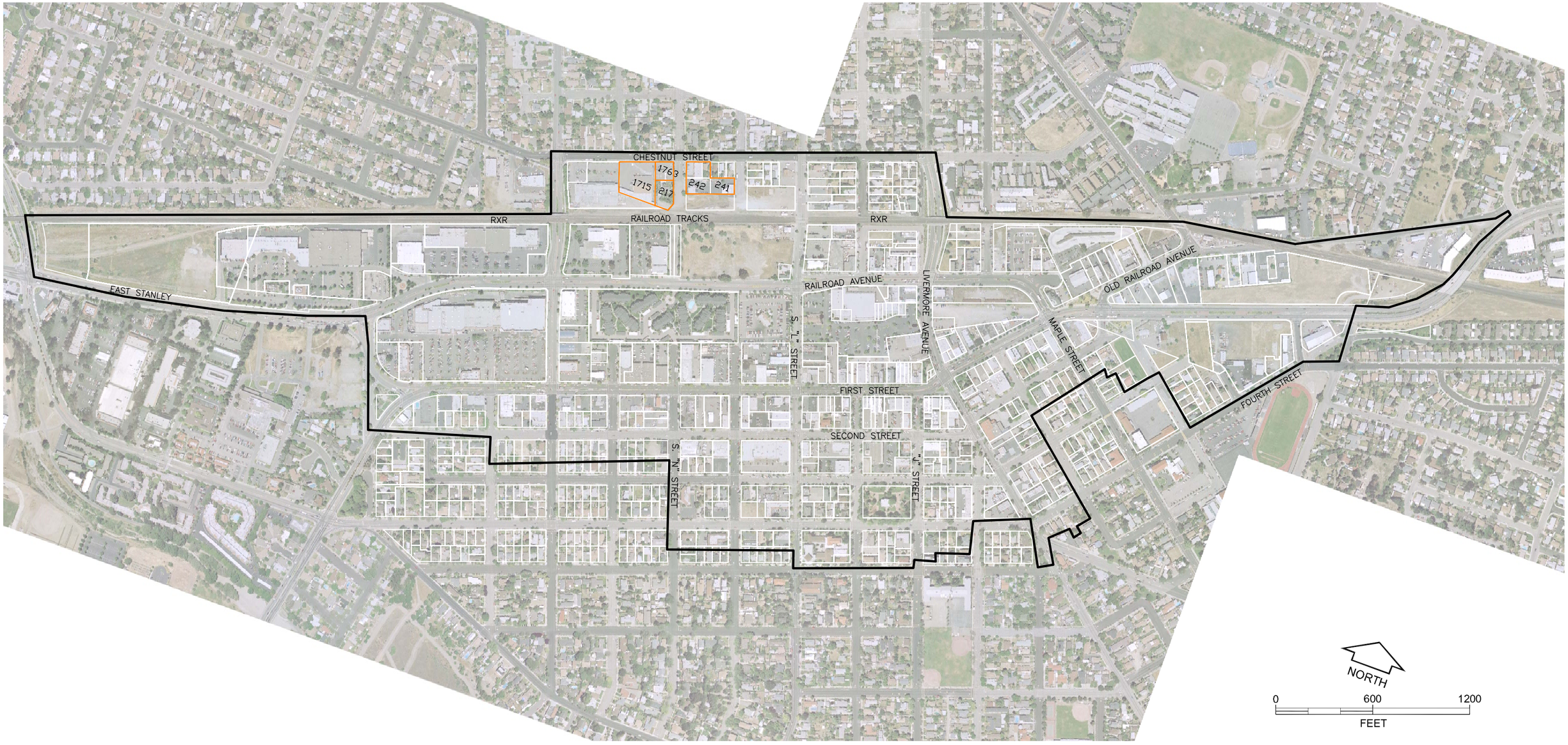
* = Table F-1: Groundwater Screening Levels where groundwater is a potential drinking water source (Maximum Contaminant Levels)

** = Table E-1: Groundwater Screening Levels for Evaluation for Potential Vapor Intrusion Concerns - Residential, Interim Final - November 2007

*** = Table E-1: Groundwater Screening Levels for Evaluation for Evaluation of Potential Vapor Intrusion Concerns - Commercial, Interim Final November 2007

PLATES

December 2007
Project No. 1121.014



VICINITY MAP
Chestnut Parcels
Livermore, California

PLATE 1

G:\jobdocs\1121\1121.014\Drawings\B1121_014_04.dwg 12-12-07 11:33:04 AM vtong

G:\jobdocs\1121\1121.014\Drawings\Dec 2007\A1121_014_01_rev1.dwg 1-23-08 11:58:40 AM vtong

SOURCE: This Aerial Photo obtained from Google Earth Pro.

Legend

Approximate Location of Direct Push Boring

Approximate Location of Hollow Stem Auger Boring

Property Boundary

NORTH

0 100 200

FEET

SITE PLAN
Chestnut Parcels
Livermore, California

PLATE 2

APPENDIX A
DRILLING PERMITS

ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306
E-MAIL whong@zone7water.com

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1715-176 Chestnut St. & Street Right of way on So. M St. and So. N St Livermore CA

PERMIT NUMBER 27207
WELL NUMBER
APN 098-0249-001-03, 04 & 05

California Coordinates Source _____ ft. Accuracy _____ ft.
CCN _____ ft. CCE _____ ft.
APN 98-249-1-3, 98-249-1-4; 98-249-1-5

CLIENT
Name City of Livermore
Address 1052 S. Livermore Ave Phone 925 960-4443
City Livermore, CA Zip 94550

APPLICANT
Name Karen Emery / Fugro West Inc.
Email kemery@fugro.com Fax 510-267-0545
Address 1000 Broadway, Ste. 440 Phone 510-267-4432
City Oakland, CA Zip 94607

TYPE OF PROJECT:

Well Construction	••	Geotechnical Investigation	••
Well Destruction	••	Contamination Investigation	✗
Cathodic Protection	••	Other _____	••

PROPOSED WELL USE:

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

DRILLING METHOD:

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

DRILLING COMPANY Precision Sampling Richmond, CA
DRILLER'S LICENSE NO. CSL 636337

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

SOIL BORINGS:
Number of Borings 8 Maximum
Hole Diameter 2"&8" in. Depth 30 ft.

ESTIMATED STARTING DATE 12/3/07
ESTIMATED COMPLETION DATE 12/4/07

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

APPLICANT'S SIGNATURE Karen Emery Date 11/13/07

ATTACH SITE PLAN OR SKETCH

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 diameter is four inches greater than the well casing diameter.
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. Grout placed by tremie.
4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
5. A sample port is required on the discharge pipe near the wellhead.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
3. Grout placed by tremie.

(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 completion of permitted work the well installation report **including all soil and water laboratory analysis results**.

Approved Wyman Hong Date 11/19/07
Wyman Hong

APPENDIX B
USCS KEY AND LOGS OF BORINGS

MAJOR DIVISIONS			GROUP NAMES		
COARSE-GRAINED SOILS (More than 50% retained on the No. 200 sieve)	GRAVELS (MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE)	Clean gravels less than 5% fines	GW		Well-Graded Gravel
			GP		Poorly Graded Gravel
		Gravels with more than 12% fines	GM		Silty Gravel
			GC		Clayey Gravel
	SANDS (MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE)	Clean sand less than 5% fines	SW		Well-Graded Sand
			SP		Poorly Graded Sand
		Sands with more than 12% fines	SM		Silty Sand
			SC		Clayey Sand
FINE-GRAINED SOILS (50% or more passes the No. 200 sieve)	SILTS AND CLAYS (Liquid Limit Less than 50%)		ML		Silt
			CL		Lean Clay
			OL		Organic Silt
	SILTS AND CLAYS (Liquid Limit Greater than 50%)		MH		Elastic Silt
			CH		Fat Clay
			OH		Organic Clay
HIGHLY ORGANIC SOILS			PT		Peat or Highly Organic Soils
			FILL		Debris or Mixed Fill
			AC		Asphalt Concrete Pavement with Aggregate Base

GENERAL NOTES

Classification of Soils in general accordance with ASTM D2487 or D2488 (based on the Unified Soil Classification System)

Geologic Formation noted in bold font at the top of interpreted interval
Sloped line in break column indicates transitional boundary

Blow counts for modified California Liner Sampler shown in ( )

Length of sample symbol approximates recovery length

SAMPLER DRIVING RESISTANCE

Number of blows with 140 lb. hammer, falling 30-in. to drive sampler 1-ft. after seating sampler 6-in.; for example,

Blows/ft	Description
25	25 blows drove sampler 12" after initial 6" of seating
50/7"	50 blows drove sampler 7" after initial 6" of seating
Ref/3"	50 blows drove sampler 3" during initial 6" seating interval (Ref=Refusal)

STRENGTH TEST METHOD

U = Unconfined Compression
Q = Unconsolidated Undrained Triaxial
T = Torvane
P = Pocket Penetrometer
M = Miniature Vane
F = Field Vane

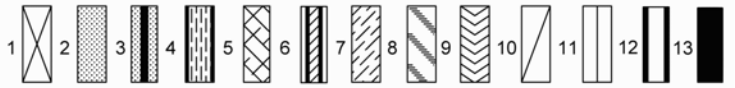
OTHER TESTS

k = Permeability
Consol = Consolidation
Gs = Specific Gravity
MA = Particle Size Analysis
EI = Expansion Index
OVM = Organic Vapor Meter

WATER LEVEL SYMBOLS

- Initial or perched water level
- Final ground water level
- Seepages encountered

SAMPLER TYPE AND RECOVERY



Samplers and sampler dimensions (unless otherwise noted in report text) are as follows:

1 SPT Sampler, driven 1 3/8" ID, 2" OD
2 MOD CA Liner Sampler 2 3/8" ID, 3" OD
3 CA Liner Sampler 1 7/8" ID, 2.5" OD
4 Thin-walled Tube, pushed 2 7/8" ID, 3" OD
5 Bulk Bag Sample (from cuttings)
6 Hand Auger Sample
7 Lexan Sample
8 Pitcher Sample
9 Vibracore Sample
10 No Sample Recovered
11 Rock Core
12 Direct Push
13 Enviromental Sample

Retained samples listed in sample No. column

SOIL STRUCTURE

Fissured: Containing shrinkage or relief cracks, often filled with fine sand or silt, usually more or less vertical.

Pocket: Inclusion of material of different texture that is smaller than the diameter of the sample.

Parting: Inclusion less than 1/8 inch thick extending through the sample.

Seam: Inclusion 1/8 inch to 3 inches thick extending through the sample.

Layer: Inclusion greater than 3 inches thick extending through the sample.

Laminated: Soil sample composed of alternating partings or seams of different soil types.

Interlayered: Soil sample composed of alternating layers of different soil type.

Intermixed: Soil sample composed of pockets of different soil type, and layered or laminated structure is not evident.

CONSISTENCY (1)

Clays	Blows/Foot SPT	Undrained Shear Strength (ksf)
Very Soft	0 - 2	0 - 0.25
Soft	2 - 4	0.25 - 0.5
Firm	4 - 8	0.5 - 1
Stiff	8 - 15	1 - 2
Very Stiff	15 - 30	2 - 4
Hard	Over 30	Over 4

RELATIVE DENSITY (1)

Sands and Gravels	Blows/Foot SPT
Very Loose	0 - 4
Loose	4 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	Over 50

INCREASING VISUAL MOISTURE CONTENT

Dry
Moist
Wet

Information on each boring log is a compilation of subsurface conditions and soil or rock classifications obtained from the field as well as from laboratory testing of samples. Strata have been interpreted by commonly accepted procedures. The stratum lines on the logs may be transitional and approximate in nature. Water level measurements refer only to those observed at the time and places indicated, and can vary with time, geologic condition, or construction activity.

(1) Terzaghi and Peck 1967

TERMS AND SYMBOLS USED ON BORING LOGS

LOCATION: 242 North N Street

SURFACE EL: ft +/- (rel. MSL datum)

DEPTH, ft	SAMPLE NO.	SAMPLER TYPE	SAMPLER BLOW COUNT/ PRESSURE	OVM/PID (ppm)	MATERIAL DESCRIPTION	OTHER TESTS
	A1-1@0			0	Silty, clayey GRAVEL (GC-GM): medium dense, brown, dry, No odor, some small orgaincs present in clay matrix. Gravel 1/4 to 1/2 in size and sub-angular to sub-rounded	
	A1-1@.5			0	- Slight increase in gravel concentration	
	A1-1@2			0	- dry to moist	
					- Slight increase in gravel size, sub-rounded. Occasional 1 and larger pieces of gravel	
5	A1-1@5			0		
	A1-1@7.5		(50/2")	0.3	- dense	
					Silty SAND with gravel (SM): dense to very dense, light brown, dry to moist	
10	A1-1@10		(50/5")	0.4		
	A1-1@15		(50/5")	0	- Gravel poorly sorted	
15						
					Silty, clayey SAND with gravel (SC-SM): dense to very dense, brown, dry to moist, Most gravel 1/4 and smaller, low plasticity	
	A1-1@20		(50/5")	0		

Continued

BORING DEPTH: 55.0 ft
DEPTH TO WATER: 52.0 ft Not Measured
BACKFILL: Grout
COMPLETION DATE: December 3, 2007
NOTES: 1. Terms and symbols defined on Plate B-1.

DRILLING METHOD: 8-in. dia. Hollow Stem Auger
HAMMER TYPE: Automatic Trip

DRILLED BY: Precision, Roberto
LOGGED BY: R. Carter

LOG OF A1-1

Livermore Hazmat Services
Livermore, California

LOCATION: 242 North N Street

SURFACE EL: ft +/- (rel. MSL datum)

DEPTH, ft	MATERIAL SYMBOL	SAMPLE NO.	SAMPLER TYPE	SAMPLER BLOW COUNT/ PRESSURE	OVM/PID (ppm)	MATERIAL DESCRIPTION	OTHER TESTS
25		A1-1@25		(50/4")	0	- Some gray and reddish brown mottling present	
30		A1-1@30		(50/1")	0	- dark brown, gravel size increased to 1/4 to 3/4	
35		A1-1@35		(50/4")		Poorly-graded SAND with gravel (SP): very dense, brown, moist, very little silts and clays, occasional gray and reddish-gray mottling	
		A1-1@40		(50/6")	0		

Continued

BORING DEPTH: 55.0 ft
DEPTH TO WATER: 52.0 ft Not Measured
BACKFILL: Grout
COMPLETION DATE: December 3, 2007
NOTES: 1. Terms and symbols defined on Plate B-1.

DRILLING METHOD: 8-in. dia. Hollow Stem Auger
HAMMER TYPE: Automatic Trip

DRILLED BY: Precision, Roberto
LOGGED BY: R. Carter

LOG OF A1-1

Livermore Hazmat Services
Livermore, California

LOCATION: 242 North N Street

SURFACE EL: ft +/- (rel. MSL datum)

DEPTH, ft	MATERIAL SYMBOL	SAMPLE NO.	SAMPLER TYPE	SAMPLER BLOW COUNT/ PRESSURE	OVM/PID (ppm)	MATERIAL DESCRIPTION	OTHER TESTS
45		A1-1@45		(50/3")	0	- Slight increase in concentration of silts and clays	
						Poorly-graded SAND with clay (SP-SC): dense, light brown, wet, No odor, low to moderate plasticity, some gravel in the 1/4 to 1/2 size fractination	
50		A1-1@50		(50/2")	0	▽	
55							

BORING DEPTH: 55.0 ft
DEPTH TO WATER: 52.0 ft Not Measured
BACKFILL: Grout
COMPLETION DATE: December 3, 2007
NOTES: 1. Terms and symbols defined on Plate B-1.

DRILLING METHOD: 8-in. dia. Hollow Stem Auger
HAMMER TYPE: Automatic Trip

DRILLED BY: Precision, Roberto
LOGGED BY: R. Carter

LOG OF A1-1

Livermore Hazmat Services
Livermore, California

LOCATION: 241 North M Street

SURFACE EL: ft +/- (rel. MSL datum)

DEPTH, ft	SAMPLE NO.	SAMPLER TYPE	SAMPLER BLOW COUNT/ PRESSURE	OVM/PID (ppm)	MATERIAL DESCRIPTION	OTHER TESTS
	A1-2@0			0.8	Silty, clayey GRAVEL (GC-GM): medium dense, dark brown, dry, No Odor, 10% gravel, no plasticity	
	A1-2@2.5			0.9		
	A1-2@3			0.7	- Slight increase in gravel percentage	
5	A1-2@5			0.4	- Low plasticity, increase in size of gravel fractination to 1/2 - 1	
	A1-2@7.5		(77)	0.1	Clayey GRAVEL with sand (GC): dense to very dense, dark brown, dry to moist, No odor, gravel mostly below 1/4 in size	
10	A1-2@10		(50/3")	0.6	Clayey GRAVEL (GC): light brown, dry to moist, No odor, low plasticity	
	A1-2@15		(50/4")	0.5	Clayey GRAVEL with sand (GC): dense to very dense, dark brown, dry to moist, No odor, low plasticity	
15	A1-2@20		(50/5")	0.3		

Continued

BORING DEPTH: 55.0 ft
DEPTH TO WATER: 49.0 ft Not Measured
BACKFILL: Grout
COMPLETION DATE: December 4, 2007
NOTES: 1. Terms and symbols defined on Plate B-1.

DRILLING METHOD: 8-in. dia. Hollow Stem Auger
HAMMER TYPE: Automatic Trip

DRILLED BY: Precision, Roberto
LOGGED BY: R. Carter

LOG OF A1-2

Livermore Hazmat Services
Livermore, California

LOCATION: 241 North M Street

SURFACE EL: ft +/- (rel. MSL datum)

DEPTH, ft	MATERIAL SYMBOL	SAMPLE NO.	SAMPLER TYPE	SAMPLER BLOW COUNT/ PRESSURE	OVM/PID (ppm)	MATERIAL DESCRIPTION	OTHER TESTS
						- Slight increase in gravel percentage	
25		A1-2@25		(50/3")	0.3	- Occasional large 3-4 gravel rising to surface on auger veins	
30		A1-2@30		(50/2")	0.3	- Decrease in gravel percentage	
35		A1-2@35		(50/5")	0.2	Lean CLAY with sand (CL): reddish brown, dry to moist, No odor, very little gravel in samples, sand present in thin layers. Low plasticity	
		A1-2@40		(30)	0.1		

Continued

BORING DEPTH: 55.0 ft
DEPTH TO WATER: 49.0 ft Not Measured
BACKFILL: Grout
COMPLETION DATE: December 4, 2007
NOTES: 1. Terms and symbols defined on Plate B-1.

DRILLING METHOD: 8-in. dia. Hollow Stem Auger
HAMMER TYPE: Automatic Trip

DRILLED BY: Precision, Roberto
LOGGED BY: R. Carter

LOG OF A1-2

Livermore Hazmat Services
Livermore, California

LOCATION: 241 North M Street

SURFACE EL: ft +/- (rel. MSL datum)

DEPTH, ft	MATERIAL SYMBOL	SAMPLE NO.	SAMPLER TYPE	SAMPLER BLOW COUNT/ PRESSURE	OVM/PID (ppm)	MATERIAL DESCRIPTION	OTHER TESTS
						- Decreasing sand concentrations, medium-high plasticity	
45		A1-2@45		(20)	0.1		
						- Increase in sand concentration, occasional gravel	
						▽	
50		A1-2@50		(50/2")	0.1		
55							

BORING DEPTH: 55.0 ft
DEPTH TO WATER: 49.0 ft Not Measured
BACKFILL: Grout
COMPLETION DATE: December 4, 2007
NOTES: 1. Terms and symbols defined on Plate B-1.

DRILLING METHOD: 8-in. dia. Hollow Stem Auger
HAMMER TYPE: Automatic Trip

DRILLED BY: Precision, Roberto
LOGGED BY: R. Carter

LOG OF A1-2

Livermore Hazmat Services
Livermore, California

LOCATION: Chestnut Parcels

SURFACE EL: ft +/- (rel. MSL datum)

DEPTH, ft	MATERIAL SYMBOL	SAMPLE NO.	SAMPLER TYPE	SAMPLER BLOW COUNT/ PRESSURE	OVM/PID (ppm)	MATERIAL DESCRIPTION	OTHER TESTS
		DP1-1@0			0.6	AC/AB	
		DP1-1@0.5			1.1	Silty CLAY (CL-ML): dark brown, damp, low plasticity, no odor or staining, some pea gravel, subrounded	
		DP1-1@2			0.7		
5		DP1-1@5			0	Poorly-graded GRAVEL with silt and sand (GP-GM): loose, yellowish brown, subrounded pea gravel	
		DP1-1@7.5			0.7	- increasing gravel up to 1" in size, subangular to subrounded	
10		DP1-1@10			0.5	Silty CLAY (CL-ML): yellowish brown, damp, low plasticity, no odor or staining	
						Sandy Lean CLAY with gravel (CL): yellowish brown, subangular, up to 3/4" in size	
15		DP1-1@15			0.7	Clayey SAND (SC): loose, yellowish brown, damp, no odor or staining	

BORING DEPTH: 15.0 ft
DEPTH TO WATER: Not Encountered
BACKFILL: Grout
COMPLETION DATE: December 4, 2007
NOTES: 1. Terms and symbols defined on Plate B-1.

DRILLING METHOD: Direct Push

RIG TYPE: Geoprobe
DRILLED BY: Precision, Israel R.
LOGGED BY: K. Emery

LOG OF DP1-1

Livermore Hazmat Services
Livermore, California

LOCATION: Chestnut Parcels

SURFACE EL: ft +/- (rel. MSL datum)

DEPTH, ft	MATERIAL SYMBOL	SAMPLE NO.	SAMPLER TYPE	SAMPLER BLOW COUNT/ PRESSURE	OVM/PID (ppm)	MATERIAL DESCRIPTION	OTHER TESTS
		DP1-2@0			0	AB/AC	
		DP1-2@.5			0.2	Silty CLAY with gravel (CL-ML): medium brown, no odor or staining, subangular to subrounded gravel up to 1/2" in size	
		DP1-2@2			0.4		
5		DP1-2@5			0	Silty GRAVEL with sand (GM): light brown, damp, subrounded, up to 1" in size, no odor	
		DP1-2@7.5			0.2		
10		DP1-2@10			0.7	- gravel size increasing with depth to 2"	
						- some coarse grained sand	
15		DP1-2@15			0		

BORING DEPTH: 15.0 ft
DEPTH TO WATER: Not Encountered
BACKFILL: Grout
COMPLETION DATE: December 4, 2007
NOTES: 1. Terms and symbols defined on Plate B-1.

DRILLING METHOD: Direct Push

RIG TYPE: Geoprobe
DRILLED BY: Precision, Israel R.
LOGGED BY: K. Emery

LOG OF DP1-2

Livermore Hazmat Services
Livermore, California

LOCATION: Chestnut Parcels

SURFACE EL: ft +/- (rel. MSL datum)

DEPTH, ft	SAMPLE NO.	OVM/PID (ppm)	MATERIAL DESCRIPTION	OTHER TESTS
	DP1-3@0	0.4	AB/AC	
	DP1-3@0.5	0.2	Silty CLAY with gravel (CL-ML): dark brown, damp, subangular, gravel up to 1/2" in size, no odor or staining	
	DP1-3@2	0		
5	DP1-3@5	0.6	Clayey GRAVEL with sand (GC): medium brown, damp, subangular, gravel up to3/4" in size, no odor or staining	
	DP1-3@7.5	0	Silty GRAVEL with sand (GM): loose, yellowish brown, damp, pea size gravel - gravel increasing to 1" in size, subrounded, at 6.5'	
10	DP1-3@10	0.1	- gravel increasing to 3" in size, at 9'	
15	DP1-3@15	0		

BORING DEPTH: 15.0 ft
DEPTH TO WATER: Not Encountered
BACKFILL: Grout
COMPLETION DATE: December 4, 2007
NOTES: 1. Terms and symbols defined on Plate B-1.

DRILLING METHOD: Direct Push

RIG TYPE: Geoprobe
DRILLED BY: Precision, Israel R.
LOGGED BY: K. Emery

LOG OF DP1-3

Livermore Hazmat Services
Livermore, California

LOCATION: Chestnut Parcels

SURFACE EL: ft +/- (rel. MSL datum)

DEPTH, ft	MATERIAL SYMBOL	SAMPLE NO.	SAMPLER TYPE	SAMPLER BLOW COUNT/ PRESSURE	OVM/PID (ppm)	MATERIAL DESCRIPTION	OTHER TESTS
		DP1-4@0			0.6	AB/AC	
		DP1-4@.5			0	Silty CLAY with gravel (CL-ML): medium brown, damp, pea gravel, subrounded, low plasticity, no odor/staining	
		DP1-4@2			0.2		
5		DP1-4@5			0.7	Silty GRAVEL with sand (GM): loose, yellowish brown, damp, no odor, subangular, up to 3/4" in size	
		DP1-4@7.5			0	- gravel increasing with depth, at 8'	
10		DP1-4@10			0.8	- gravel increases to 2" in size, subrounded to subangular, at 12'	
						- 6" lens of coarse grained sand, at 14'	
15		DP1-4@15			0.4		

BORING DEPTH: 15.0 ft
DEPTH TO WATER: Not Encountered
BACKFILL: Grout
COMPLETION DATE: December 4, 2007
NOTES: 1. Terms and symbols defined on Plate B-1.

DRILLING METHOD: Direct Push

RIG TYPE: Geoprobe
DRILLED BY: Precision, Israel R.
LOGGED BY: K. Emery

LOG OF DP1-4

Livermore Hazmat Services
Livermore, California

LOCATION: Chestnut Parcels

SURFACE EL: ft +/- (rel. MSL datum)

DEPTH, ft	MATERIAL SYMBOL	SAMPLE NO.	SAMPLER TYPE	SAMPLER BLOW COUNT/ PRESSURE	OVM/PID (ppm)	MATERIAL DESCRIPTION	OTHER TESTS
		DP1-5@0			0.4	Silty, clayey GRAVEL (GC-GM): loose, medium brown, damp, pea gravel, subrounded, no odor or staining	
		DP1-5@0.5			0.6		
		DP1-5@2			0.6		
5		DP1-5@5			1.1		
						Silty GRAVEL with sand (GM): yellowish brown, damp, fine grained sand, subangular gravel, up to 1" in size, no odor or staining - 2" lens of clayey sand, at 7'	
		DP1-5@7.5			0.6		
10		DP1-5@10			0		
15		DP1-5@15			0		

BORING DEPTH: 15.0 ft
DEPTH TO WATER: Not Encountered
BACKFILL: Grout
COMPLETION DATE: December 4, 2007
NOTES: 1. Terms and symbols defined on Plate B-1.

DRILLING METHOD: Direct Push

RIG TYPE: Geoprobe
DRILLED BY: Precision, Israel R.
LOGGED BY: K. Emery

LOG OF DP1-5

Livermore Hazmat Services
Livermore, California

LOCATION: Chestnut Parcels

SURFACE EL: ft +/- (rel. MSL datum)

DEPTH, ft	SAMPLE NO.	OVM/PID (ppm)	MATERIAL DESCRIPTION	OTHER TESTS
	DP1-6@0	0.3	CLAYEY SILT (MH): medium brown, dry to damp, no odor or staining	
	DP1-6@1.5	0.6		
	DP1-6@2	0.4		
5	DP1-6@5	0.8	Silty GRAVEL with sand (GM): light brown, damp, subangular, up to 1/2" in size, no odor or staining	
	DP1-6@7.5	0.7	Sandy SILT (ML): yellowish brown, damp, fine grained sand, no odor or staining	
			Silty GRAVEL with sand (GM): dense, yellowish brown, damp, no odor or staining	
10	DP1-6@10	0.6	Sandy SILT (ML): loose, yellowish brown, dry to damp, fine grained sand, no odor or staining - some pea gravel, at 11'	
15	DP1-6@15	0.5		

BORING DEPTH: 15.0 ft
DEPTH TO WATER: Not Encountered
BACKFILL: Grout
COMPLETION DATE: December 4, 2007
NOTES: 1. Terms and symbols defined on Plate B-1.

DRILLING METHOD: Direct Push

RIG TYPE: Geoprobe
DRILLED BY: Precision, Israel R.
LOGGED BY: K. Emery

LOG OF DP1-6

Livermore Hazmat Services
Livermore, California

APPENDIX C
ANALYTICAL REPORTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-12010-1

Job Description: Livermore HAZMAT Services

For:
Fugro West Incorporated
1000 Broadway, Suite 440
Oakland, CA 94607

Attention: Ms. Karen Emery

Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
12/12/2007

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method 8260B: Reporting Limit was raised because sediment filled half of the vial, not enough to run without dilution.

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Fugro West Incorporated Job Number: 720-12010-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-12010-1	**A1-1@0**				
Arsenic		3.4	0.99	mg/Kg	6010B
Lead		4.5	0.99	mg/Kg	6010B
720-12010-2	**A1-1@2**				
Arsenic		3.7	1.0	mg/Kg	6010B
Lead		4.6	1.0	mg/Kg	6010B
720-12010-3	**A1-1@7.5**				
Arsenic		2.8	0.95	mg/Kg	6010B
Lead		3.8	0.95	mg/Kg	6010B
720-12010-5	**A1-2@2**				
Arsenic		3.9	1.0	mg/Kg	6010B
Lead		4.8	1.0	mg/Kg	6010B
720-12010-6	**A1-2@7.5**				
Arsenic		2.6	0.95	mg/Kg	6010B
Lead		2.3	0.95	mg/Kg	6010B
720-12010-7	**A1-1**				
Tetrachloroethene		16	1.0	ug/L	8260B
720-12010-9FD	**A1-1 DUP**				
Tetrachloroethene		18	1.0	ug/L	8260B

METHOD SUMMARY

Client: Fugro West Incorporated Job Number: 720-12010-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS (Low Level)	TAL SF	SW846 8260B	
Purge and Trap for Solids	TAL SF		SW846 5030B
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Acid Digestion of Sediments, Sludges, and Soils	TAL SF		SW846 3050B
Matrix: Water			
Volatile Organic Compounds by GC/MS (Low Level)	TAL SF	SW846 8260B	
Purge-and-Trap	TAL SF		SW846 5030B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

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

SAMPLE SUMMARY

Client: Fugro West Incorporated Job Number: 720-12010-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-12010-1	A1-1@0	Solid	12/03/2007 0845	12/03/2007 1825
720-12010-2	A1-1@2	Solid	12/03/2007 0900	12/03/2007 1825
720-12010-3	A1-1@7.5	Solid	12/03/2007 0915	12/03/2007 1825
720-12010-4	A1-2@0	Solid	12/03/2007 1642	12/03/2007 1825
720-12010-5	A1-2@2	Solid	12/03/2007 1650	12/03/2007 1825
720-12010-6	A1-2@7.5	Solid	12/03/2007 1715	12/03/2007 1825
720-12010-7	A1-1	Water	12/03/2007 1430	12/03/2007 1825
720-12010-8TB	TRIP BLANK	Water	12/03/2007 0000	12/03/2007 1825
720-12010-9FD	A1-1 DUP	Water	12/03/2007 1430	12/03/2007 1825

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: **A1-1@0**

Lab Sample ID: 720-12010-1 | Date Sampled: 12/03/2007 0845
Client Matrix: Solid | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29255 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29231 | Lab File ID: 120407006.D
Dilution: 1.0 | Initial Weight/Volume: 5.05 g
Date Analyzed: 12/04/2007 1539 | Final Weight/Volume: 10 mL
Date Prepared: 12/04/2007 1400

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Acetone		ND		50
Benzene		ND		5.0
Dichlorobromomethane		ND		5.0
Bromobenzene		ND		5.0
Chlorobromomethane		ND		20
Bromoform		ND		5.0
Bromomethane		ND		9.9
2-Butanone (MEK)		ND		50
n-Butylbenzene		ND		5.0
sec-Butylbenzene		ND		5.0
tert-Butylbenzene		ND		5.0
Carbon disulfide		ND		5.0
Carbon tetrachloride		ND		5.0
Chlorobenzene		ND		5.0
Chloroethane		ND		9.9
Chloroform		ND		5.0
Chloromethane		ND		9.9
2-Chlorotoluene		ND		5.0
4-Chlorotoluene		ND		5.0
Chlorodibromomethane		ND		5.0
1,2-Dichlorobenzene		ND		5.0
1,3-Dichlorobenzene		ND		5.0
1,4-Dichlorobenzene		ND		5.0
1,3-Dichloropropane		ND		5.0
1,1-Dichloropropene		ND		5.0
1,2-Dibromo-3-Chloropropane		ND		50
Ethylene Dibromide		ND		5.0
Dibromomethane		ND		9.9
Dichlorodifluoromethane		ND		9.9
1,1-Dichloroethane		ND		5.0
1,2-Dichloroethane		ND		5.0
1,1-Dichloroethene		ND		5.0
cis-1,2-Dichloroethene		ND		5.0
trans-1,2-Dichloroethene		ND		5.0
1,2-Dichloropropane		ND		5.0
cis-1,3-Dichloropropene		ND		5.0
trans-1,3-Dichloropropene		ND		5.0
Ethylbenzene		ND		5.0
Hexachlorobutadiene		ND		5.0
2-Hexanone		ND		50
Isopropylbenzene		ND		5.0
4-Isopropyltoluene		ND		5.0
Methylene Chloride		ND		9.9

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: **A1-1@0**

Lab Sample ID: 720-12010-1 | Date Sampled: 12/03/2007 0845
Client Matrix: Solid | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-29255	Instrument ID: Agilent 75MSD
Preparation:	5030B	Prep Batch: 720-29231	Lab File ID: 120407006.D
Dilution:	1.0		Initial Weight/Volume: 5.05 g
Date Analyzed:	12/04/2007 1539		Final Weight/Volume: 10 mL
Date Prepared:	12/04/2007 1400		

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		50
Naphthalene		ND		9.9
N-Propylbenzene		ND		5.0
Styrene		ND		5.0
1,1,1,2-Tetrachloroethane		ND		5.0
1,1,2,2-Tetrachloroethane		ND		5.0
Tetrachloroethene		ND		5.0
Toluene		ND		5.0
1,2,3-Trichlorobenzene		ND		5.0
1,2,4-Trichlorobenzene		ND		5.0
1,1,1-Trichloroethane		ND		5.0
1,1,2-Trichloroethane		ND		5.0
Trichloroethene		ND		5.0
Trichlorofluoromethane		ND		5.0
1,2,3-Trichloropropane		ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.0
1,2,4-Trimethylbenzene		ND		5.0
1,3,5-Trimethylbenzene		ND		5.0
Vinyl acetate		ND		50
Vinyl chloride		ND		5.0
Xylenes, Total		ND		9.9
2,2-Dichloropropane		ND		5.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	100	50 - 138
1,2-Dichloroethane-d4 (Surr)	100	66 - 127
Toluene-d8 (Surr)	96	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: A1-1@2

Lab Sample ID: 720-12010-2 | Date Sampled: 12/03/2007 0900
Client Matrix: Solid | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29255 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29231 | Lab File ID: 120407009.D
Dilution: 1.0 | Initial Weight/Volume: 5.07 g
Date Analyzed: 12/04/2007 1655 | Final Weight/Volume: 10 mL
Date Prepared: 12/04/2007 1400

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Acetone		ND		49
Benzene		ND		4.9
Dichlorobromomethane		ND		4.9
Bromobenzene		ND		4.9
Chlorobromomethane		ND		20
Bromoform		ND		4.9
Bromomethane		ND		9.9
2-Butanone (MEK)		ND		49
n-Butylbenzene		ND		4.9
sec-Butylbenzene		ND		4.9
tert-Butylbenzene		ND		4.9
Carbon disulfide		ND		4.9
Carbon tetrachloride		ND		4.9
Chlorobenzene		ND		4.9
Chloroethane		ND		9.9
Chloroform		ND		4.9
Chloromethane		ND		9.9
2-Chlorotoluene		ND		4.9
4-Chlorotoluene		ND		4.9
Chlorodibromomethane		ND		4.9
1,2-Dichlorobenzene		ND		4.9
1,3-Dichlorobenzene		ND		4.9
1,4-Dichlorobenzene		ND		4.9
1,3-Dichloropropane		ND		4.9
1,1-Dichloropropene		ND		4.9
1,2-Dibromo-3-Chloropropane		ND		49
Ethylene Dibromide		ND		4.9
Dibromomethane		ND		9.9
Dichlorodifluoromethane		ND		9.9
1,1-Dichloroethane		ND		4.9
1,2-Dichloroethane		ND		4.9
1,1-Dichloroethene		ND		4.9
cis-1,2-Dichloroethene		ND		4.9
trans-1,2-Dichloroethene		ND		4.9
1,2-Dichloropropane		ND		4.9
cis-1,3-Dichloropropene		ND		4.9
trans-1,3-Dichloropropene		ND		4.9
Ethylbenzene		ND		4.9
Hexachlorobutadiene		ND		4.9
2-Hexanone		ND		49
Isopropylbenzene		ND		4.9
4-Isopropyltoluene		ND		4.9
Methylene Chloride		ND		9.9

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: **A1-1@2**

Lab Sample ID: 720-12010-2 | Date Sampled: 12/03/2007 0900
Client Matrix: Solid | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29255 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29231 | Lab File ID: 120407009.D
Dilution: 1.0 | Initial Weight/Volume: 5.07 g
Date Analyzed: 12/04/2007 1655 | Final Weight/Volume: 10 mL
Date Prepared: 12/04/2007 1400

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		49
Naphthalene		ND		9.9
N-Propylbenzene		ND		4.9
Styrene		ND		4.9
1,1,1,2-Tetrachloroethane		ND		4.9
1,1,2,2-Tetrachloroethane		ND		4.9
Tetrachloroethene		ND		4.9
Toluene		ND		4.9
1,2,3-Trichlorobenzene		ND		4.9
1,2,4-Trichlorobenzene		ND		4.9
1,1,1-Trichloroethane		ND		4.9
1,1,2-Trichloroethane		ND		4.9
Trichloroethene		ND		4.9
Trichlorofluoromethane		ND		4.9
1,2,3-Trichloropropane		ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.9
1,2,4-Trimethylbenzene		ND		4.9
1,3,5-Trimethylbenzene		ND		4.9
Vinyl acetate		ND		49
Vinyl chloride		ND		4.9
Xylenes, Total		ND		9.9
2,2-Dichloropropane		ND		4.9

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	90	50 - 138
1,2-Dichloroethane-d4 (Surr)	98	66 - 127
Toluene-d8 (Surr)	91	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: **A1-1@7.5**

Lab Sample ID: 720-12010-3 | Date Sampled: 12/03/2007 0915
Client Matrix: Solid | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29255 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29231 | Lab File ID: 120407010.D
Dilution: 1.0 | Initial Weight/Volume: 5.17 g
Date Analyzed: 12/04/2007 1720 | Final Weight/Volume: 10 mL
Date Prepared: 12/04/2007 1400

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.8
Acetone		ND		48
Benzene		ND		4.8
Dichlorobromomethane		ND		4.8
Bromobenzene		ND		4.8
Chlorobromomethane		ND		19
Bromoform		ND		4.8
Bromomethane		ND		9.7
2-Butanone (MEK)		ND		48
n-Butylbenzene		ND		4.8
sec-Butylbenzene		ND		4.8
tert-Butylbenzene		ND		4.8
Carbon disulfide		ND		4.8
Carbon tetrachloride		ND		4.8
Chlorobenzene		ND		4.8
Chloroethane		ND		9.7
Chloroform		ND		4.8
Chloromethane		ND		9.7
2-Chlorotoluene		ND		4.8
4-Chlorotoluene		ND		4.8
Chlorodibromomethane		ND		4.8
1,2-Dichlorobenzene		ND		4.8
1,3-Dichlorobenzene		ND		4.8
1,4-Dichlorobenzene		ND		4.8
1,3-Dichloropropane		ND		4.8
1,1-Dichloropropene		ND		4.8
1,2-Dibromo-3-Chloropropane		ND		48
Ethylene Dibromide		ND		4.8
Dibromomethane		ND		9.7
Dichlorodifluoromethane		ND		9.7
1,1-Dichloroethane		ND		4.8
1,2-Dichloroethane		ND		4.8
1,1-Dichloroethene		ND		4.8
cis-1,2-Dichloroethene		ND		4.8
trans-1,2-Dichloroethene		ND		4.8
1,2-Dichloropropane		ND		4.8
cis-1,3-Dichloropropene		ND		4.8
trans-1,3-Dichloropropene		ND		4.8
Ethylbenzene		ND		4.8
Hexachlorobutadiene		ND		4.8
2-Hexanone		ND		48
Isopropylbenzene		ND		4.8
4-Isopropyltoluene		ND		4.8
Methylene Chloride		ND		9.7

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: **A1-1@7.5**

Lab Sample ID: 720-12010-3 | Date Sampled: 12/03/2007 0915
Client Matrix: Solid | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29255 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29231 | Lab File ID: 120407010.D
Dilution: 1.0 | Initial Weight/Volume: 5.17 g
Date Analyzed: 12/04/2007 1720 | Final Weight/Volume: 10 mL
Date Prepared: 12/04/2007 1400

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		48
Naphthalene		ND		9.7
N-Propylbenzene		ND		4.8
Styrene		ND		4.8
1,1,1,2-Tetrachloroethane		ND		4.8
1,1,2,2-Tetrachloroethane		ND		4.8
Tetrachloroethene		ND		4.8
Toluene		ND		4.8
1,2,3-Trichlorobenzene		ND		4.8
1,2,4-Trichlorobenzene		ND		4.8
1,1,1-Trichloroethane		ND		4.8
1,1,2-Trichloroethane		ND		4.8
Trichloroethene		ND		4.8
Trichlorofluoromethane		ND		4.8
1,2,3-Trichloropropane		ND		4.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.8
1,2,4-Trimethylbenzene		ND		4.8
1,3,5-Trimethylbenzene		ND		4.8
Vinyl acetate		ND		48
Vinyl chloride		ND		4.8
Xylenes, Total		ND		9.7
2,2-Dichloropropane		ND		4.8

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	89	50 - 138
1,2-Dichloroethane-d4 (Surr)	91	66 - 127
Toluene-d8 (Surr)	91	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: **A1-2@0**

Lab Sample ID: 720-12010-4 | Date Sampled: 12/03/2007 1642
Client Matrix: Solid | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29255 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29231 | Lab File ID: 120407011.D
Dilution: 1.0 | Initial Weight/Volume: 5.14 g
Date Analyzed: 12/04/2007 1745 | Final Weight/Volume: 10 mL
Date Prepared: 12/04/2007 1400

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Acetone		ND		49
Benzene		ND		4.9
Dichlorobromomethane		ND		4.9
Bromobenzene		ND		4.9
Chlorobromomethane		ND		19
Bromoform		ND		4.9
Bromomethane		ND		9.7
2-Butanone (MEK)		ND		49
n-Butylbenzene		ND		4.9
sec-Butylbenzene		ND		4.9
tert-Butylbenzene		ND		4.9
Carbon disulfide		ND		4.9
Carbon tetrachloride		ND		4.9
Chlorobenzene		ND		4.9
Chloroethane		ND		9.7
Chloroform		ND		4.9
Chloromethane		ND		9.7
2-Chlorotoluene		ND		4.9
4-Chlorotoluene		ND		4.9
Chlorodibromomethane		ND		4.9
1,2-Dichlorobenzene		ND		4.9
1,3-Dichlorobenzene		ND		4.9
1,4-Dichlorobenzene		ND		4.9
1,3-Dichloropropane		ND		4.9
1,1-Dichloropropene		ND		4.9
1,2-Dibromo-3-Chloropropane		ND		49
Ethylene Dibromide		ND		4.9
Dibromomethane		ND		9.7
Dichlorodifluoromethane		ND		9.7
1,1-Dichloroethane		ND		4.9
1,2-Dichloroethane		ND		4.9
1,1-Dichloroethene		ND		4.9
cis-1,2-Dichloroethene		ND		4.9
trans-1,2-Dichloroethene		ND		4.9
1,2-Dichloropropane		ND		4.9
cis-1,3-Dichloropropene		ND		4.9
trans-1,3-Dichloropropene		ND		4.9
Ethylbenzene		ND		4.9
Hexachlorobutadiene		ND		4.9
2-Hexanone		ND		49
Isopropylbenzene		ND		4.9
4-Isopropyltoluene		ND		4.9
Methylene Chloride		ND		9.7

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: **A1-2@0**

Lab Sample ID: 720-12010-4 | Date Sampled: 12/03/2007 1642
Client Matrix: Solid | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29255 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29231 | Lab File ID: 120407011.D
Dilution: 1.0 | Initial Weight/Volume: 5.14 g
Date Analyzed: 12/04/2007 1745 | Final Weight/Volume: 10 mL
Date Prepared: 12/04/2007 1400

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		49
Naphthalene		ND		9.7
N-Propylbenzene		ND		4.9
Styrene		ND		4.9
1,1,1,2-Tetrachloroethane		ND		4.9
1,1,2,2-Tetrachloroethane		ND		4.9
Tetrachloroethene		ND		4.9
Toluene		ND		4.9
1,2,3-Trichlorobenzene		ND		4.9
1,2,4-Trichlorobenzene		ND		4.9
1,1,1-Trichloroethane		ND		4.9
1,1,2-Trichloroethane		ND		4.9
Trichloroethene		ND		4.9
Trichlorofluoromethane		ND		4.9
1,2,3-Trichloropropane		ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.9
1,2,4-Trimethylbenzene		ND		4.9
1,3,5-Trimethylbenzene		ND		4.9
Vinyl acetate		ND		49
Vinyl chloride		ND		4.9
Xylenes, Total		ND		9.7
2,2-Dichloropropane		ND		4.9

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	90	50 - 138
1,2-Dichloroethane-d4 (Surr)	98	66 - 127
Toluene-d8 (Surr)	88	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: **A1-2@2**

Lab Sample ID: 720-12010-5 | Date Sampled: 12/03/2007 1650
Client Matrix: Solid | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29255 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29231 | Lab File ID: 120407012.D
Dilution: 1.0 | Initial Weight/Volume: 5.14 g
Date Analyzed: 12/04/2007 1810 | Final Weight/Volume: 10 mL
Date Prepared: 12/04/2007 1400

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Acetone		ND		49
Benzene		ND		4.9
Dichlorobromomethane		ND		4.9
Bromobenzene		ND		4.9
Chlorobromomethane		ND		19
Bromoform		ND		4.9
Bromomethane		ND		9.7
2-Butanone (MEK)		ND		49
n-Butylbenzene		ND		4.9
sec-Butylbenzene		ND		4.9
tert-Butylbenzene		ND		4.9
Carbon disulfide		ND		4.9
Carbon tetrachloride		ND		4.9
Chlorobenzene		ND		4.9
Chloroethane		ND		9.7
Chloroform		ND		4.9
Chloromethane		ND		9.7
2-Chlorotoluene		ND		4.9
4-Chlorotoluene		ND		4.9
Chlorodibromomethane		ND		4.9
1,2-Dichlorobenzene		ND		4.9
1,3-Dichlorobenzene		ND		4.9
1,4-Dichlorobenzene		ND		4.9
1,3-Dichloropropane		ND		4.9
1,1-Dichloropropene		ND		4.9
1,2-Dibromo-3-Chloropropane		ND		49
Ethylene Dibromide		ND		4.9
Dibromomethane		ND		9.7
Dichlorodifluoromethane		ND		9.7
1,1-Dichloroethane		ND		4.9
1,2-Dichloroethane		ND		4.9
1,1-Dichloroethene		ND		4.9
cis-1,2-Dichloroethene		ND		4.9
trans-1,2-Dichloroethene		ND		4.9
1,2-Dichloropropane		ND		4.9
cis-1,3-Dichloropropene		ND		4.9
trans-1,3-Dichloropropene		ND		4.9
Ethylbenzene		ND		4.9
Hexachlorobutadiene		ND		4.9
2-Hexanone		ND		49
Isopropylbenzene		ND		4.9
4-Isopropyltoluene		ND		4.9
Methylene Chloride		ND		9.7

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: **A1-2@2**

Lab Sample ID: 720-12010-5 | Date Sampled: 12/03/2007 1650
Client Matrix: Solid | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29255 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29231 | Lab File ID: 120407012.D
Dilution: 1.0 | Initial Weight/Volume: 5.14 g
Date Analyzed: 12/04/2007 1810 | Final Weight/Volume: 10 mL
Date Prepared: 12/04/2007 1400

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		49
Naphthalene		ND		9.7
N-Propylbenzene		ND		4.9
Styrene		ND		4.9
1,1,1,2-Tetrachloroethane		ND		4.9
1,1,2,2-Tetrachloroethane		ND		4.9
Tetrachloroethene		ND		4.9
Toluene		ND		4.9
1,2,3-Trichlorobenzene		ND		4.9
1,2,4-Trichlorobenzene		ND		4.9
1,1,1-Trichloroethane		ND		4.9
1,1,2-Trichloroethane		ND		4.9
Trichloroethene		ND		4.9
Trichlorofluoromethane		ND		4.9
1,2,3-Trichloropropane		ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.9
1,2,4-Trimethylbenzene		ND		4.9
1,3,5-Trimethylbenzene		ND		4.9
Vinyl acetate		ND		49
Vinyl chloride		ND		4.9
Xylenes, Total		ND		9.7
2,2-Dichloropropane		ND		4.9

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	91	50 - 138
1,2-Dichloroethane-d4 (Surr)	95	66 - 127
Toluene-d8 (Surr)	93	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: **A1-2@7.5**

Lab Sample ID: 720-12010-6 | Date Sampled: 12/03/2007 1715
Client Matrix: Solid | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29255 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29231 | Lab File ID: 120407013.D
Dilution: 1.0 | Initial Weight/Volume: 5.07 g
Date Analyzed: 12/04/2007 1835 | Final Weight/Volume: 10 mL
Date Prepared: 12/04/2007 1400

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Acetone		ND		49
Benzene		ND		4.9
Dichlorobromomethane		ND		4.9
Bromobenzene		ND		4.9
Chlorobromomethane		ND		20
Bromoform		ND		4.9
Bromomethane		ND		9.9
2-Butanone (MEK)		ND		49
n-Butylbenzene		ND		4.9
sec-Butylbenzene		ND		4.9
tert-Butylbenzene		ND		4.9
Carbon disulfide		ND		4.9
Carbon tetrachloride		ND		4.9
Chlorobenzene		ND		4.9
Chloroethane		ND		9.9
Chloroform		ND		4.9
Chloromethane		ND		9.9
2-Chlorotoluene		ND		4.9
4-Chlorotoluene		ND		4.9
Chlorodibromomethane		ND		4.9
1,2-Dichlorobenzene		ND		4.9
1,3-Dichlorobenzene		ND		4.9
1,4-Dichlorobenzene		ND		4.9
1,3-Dichloropropane		ND		4.9
1,1-Dichloropropene		ND		4.9
1,2-Dibromo-3-Chloropropane		ND		49
Ethylene Dibromide		ND		4.9
Dibromomethane		ND		9.9
Dichlorodifluoromethane		ND		9.9
1,1-Dichloroethane		ND		4.9
1,2-Dichloroethane		ND		4.9
1,1-Dichloroethene		ND		4.9
cis-1,2-Dichloroethene		ND		4.9
trans-1,2-Dichloroethene		ND		4.9
1,2-Dichloropropane		ND		4.9
cis-1,3-Dichloropropene		ND		4.9
trans-1,3-Dichloropropene		ND		4.9
Ethylbenzene		ND		4.9
Hexachlorobutadiene		ND		4.9
2-Hexanone		ND		49
Isopropylbenzene		ND		4.9
4-Isopropyltoluene		ND		4.9
Methylene Chloride		ND		9.9

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: **A1-2@7.5**

Lab Sample ID: 720-12010-6 | Date Sampled: 12/03/2007 1715
Client Matrix: Solid | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29255 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29231 | Lab File ID: 120407013.D
Dilution: 1.0 | Initial Weight/Volume: 5.07 g
Date Analyzed: 12/04/2007 1835 | Final Weight/Volume: 10 mL
Date Prepared: 12/04/2007 1400

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		49
Naphthalene		ND		9.9
N-Propylbenzene		ND		4.9
Styrene		ND		4.9
1,1,1,2-Tetrachloroethane		ND		4.9
1,1,2,2-Tetrachloroethane		ND		4.9
Tetrachloroethene		ND		4.9
Toluene		ND		4.9
1,2,3-Trichlorobenzene		ND		4.9
1,2,4-Trichlorobenzene		ND		4.9
1,1,1-Trichloroethane		ND		4.9
1,1,2-Trichloroethane		ND		4.9
Trichloroethene		ND		4.9
Trichlorofluoromethane		ND		4.9
1,2,3-Trichloropropane		ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.9
1,2,4-Trimethylbenzene		ND		4.9
1,3,5-Trimethylbenzene		ND		4.9
Vinyl acetate		ND		49
Vinyl chloride		ND		4.9
Xylenes, Total		ND		9.9
2,2-Dichloropropane		ND		4.9

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	50 - 138
1,2-Dichloroethane-d4 (Surr)	100	66 - 127
Toluene-d8 (Surr)	98	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: **A1-1**

Lab Sample ID: 720-12010-7 | Date Sampled: 12/03/2007 1430
Client Matrix: Water | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29436 | Instrument ID: Varian 3900G
Preparation: 5030B | Lab File ID: c:\saturnws\data\200712\12
Dilution: 2.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 12/10/2007 1431 | Final Weight/Volume: 40 mL
Date Prepared: 12/10/2007 1431

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		10
Acetone	ND		100
Benzene	ND		1.0
Dichlorobromomethane	ND		1.0
Bromobenzene	ND		2.0
Chlorobromomethane	ND		2.0
Bromoform	ND		2.0
Bromomethane	ND		2.0
2-Butanone (MEK)	ND		100
n-Butylbenzene	ND		2.0
sec-Butylbenzene	ND		2.0
tert-Butylbenzene	ND		2.0
Carbon disulfide	ND		10
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		2.0
Chloroform	ND		2.0
Chloromethane	ND		2.0
2-Chlorotoluene	ND		1.0
4-Chlorotoluene	ND		1.0
Chlorodibromomethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
1,3-Dichloropropane	ND		2.0
1,1-Dichloropropene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		2.0
Ethylene Dibromide	ND		1.0
Dibromomethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,2-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
1,2-Dichloropropane	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Ethylbenzene	ND		1.0
Hexachlorobutadiene	ND		2.0
2-Hexanone	ND		100
Isopropylbenzene	ND		1.0
4-Isopropyltoluene	ND		2.0
Methylene Chloride	ND		10

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: **A1-1**

Lab Sample ID: 720-12010-7 | Date Sampled: 12/03/2007 1430
Client Matrix: Water | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29436 | Instrument ID: Varian 3900G
Preparation: 5030B | Lab File ID: c:\saturnws\data\200712\12
Dilution: 2.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 12/10/2007 1431 | Final Weight/Volume: 40 mL
Date Prepared: 12/10/2007 1431

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		100
Naphthalene	ND		2.0
N-Propylbenzene	ND		2.0
Styrene	ND		1.0
1,1,1,2-Tetrachloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
Tetrachloroethene	16		1.0
Toluene	ND		1.0
1,2,3-Trichlorobenzene	ND		2.0
1,2,4-Trichlorobenzene	ND		2.0
1,1,1-Trichloroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		2.0
1,2,3-Trichloropropane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,2,4-Trimethylbenzene	ND		1.0
1,3,5-Trimethylbenzene	ND		1.0
Vinyl acetate	ND		100
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0
2,2-Dichloropropane	ND		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	83 - 127
1,2-Dichloroethane-d4 (Surr)	97	86 - 129
Toluene-d8 (Surr)	102	82 - 126

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 720-12010-8TB | Date Sampled: 12/03/2007 0000
Client Matrix: Water | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29436 | Instrument ID: Varian 3900G
Preparation: 5030B | Lab File ID: c:\saturnws\data\200712\12
Dilution: 1.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 12/10/2007 1251 | Final Weight/Volume: 40 mL
Date Prepared: 12/10/2007 1251

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 720-12010-8TB | Date Sampled: 12/03/2007 0000
Client Matrix: Water | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29436 | Instrument ID: Varian 3900G
Preparation: 5030B | Lab File ID: c:\saturnws\data\200712\12
Dilution: 1.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 12/10/2007 1251 | Final Weight/Volume: 40 mL
Date Prepared: 12/10/2007 1251

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	115	83 - 127
1,2-Dichloroethane-d4 (Surr)	99	86 - 129
Toluene-d8 (Surr)	107	82 - 126

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: **A1-1 DUP**

Lab Sample ID: 720-12010-9FD | Date Sampled: 12/03/2007 1430
Client Matrix: Water | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29436 | Instrument ID: Varian 3900G
Preparation: 5030B | Lab File ID: c:\saturnws\data\200712\12
Dilution: 2.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 12/10/2007 1505 | Final Weight/Volume: 40 mL
Date Prepared: 12/10/2007 1505

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		10
Acetone	ND		100
Benzene	ND		1.0
Dichlorobromomethane	ND		1.0
Bromobenzene	ND		2.0
Chlorobromomethane	ND		2.0
Bromoform	ND		2.0
Bromomethane	ND		2.0
2-Butanone (MEK)	ND		100
n-Butylbenzene	ND		2.0
sec-Butylbenzene	ND		2.0
tert-Butylbenzene	ND		2.0
Carbon disulfide	ND		10
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		2.0
Chloroform	ND		2.0
Chloromethane	ND		2.0
2-Chlorotoluene	ND		1.0
4-Chlorotoluene	ND		1.0
Chlorodibromomethane	ND		1.0
1,2-Dichlorobenzene	ND		1.0
1,3-Dichlorobenzene	ND		1.0
1,4-Dichlorobenzene	ND		1.0
1,3-Dichloropropane	ND		2.0
1,1-Dichloropropene	ND		1.0
1,2-Dibromo-3-Chloropropane	ND		2.0
Ethylene Dibromide	ND		1.0
Dibromomethane	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,2-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
cis-1,2-Dichloroethene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0
1,2-Dichloropropane	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
trans-1,3-Dichloropropene	ND		1.0
Ethylbenzene	ND		1.0
Hexachlorobutadiene	ND		2.0
2-Hexanone	ND		100
Isopropylbenzene	ND		1.0
4-Isopropyltoluene	ND		2.0
Methylene Chloride	ND		10

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: **A1-1 DUP**

Lab Sample ID: 720-12010-9FD | Date Sampled: 12/03/2007 1430
Client Matrix: Water | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29436 | Instrument ID: Varian 3900G
Preparation: 5030B | Lab File ID: c:\saturnws\data\200712\12
Dilution: 2.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 12/10/2007 1505 | Final Weight/Volume: 40 mL
Date Prepared: 12/10/2007 1505

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		100
Naphthalene	ND		2.0
N-Propylbenzene	ND		2.0
Styrene	ND		1.0
1,1,1,2-Tetrachloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
Tetrachloroethene	18		1.0
Toluene	ND		1.0
1,2,3-Trichlorobenzene	ND		2.0
1,2,4-Trichlorobenzene	ND		2.0
1,1,1-Trichloroethane	ND		1.0
1,1,2-Trichloroethane	ND		1.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		2.0
1,2,3-Trichloropropane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0
1,2,4-Trimethylbenzene	ND		1.0
1,3,5-Trimethylbenzene	ND		1.0
Vinyl acetate	ND		100
Vinyl chloride	ND		1.0
Xylenes, Total	ND		2.0
2,2-Dichloropropane	ND		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	113	83 - 127
1,2-Dichloroethane-d4 (Surr)	102	86 - 129
Toluene-d8 (Surr)	105	82 - 126

Client: Fugro West Incorporated

Job Number: 720-12010-1

Client Sample ID: A1-1@0

Lab Sample ID: 720-12010-1
Client Matrix: Solid

Date Sampled: 12/03/2007 0845
Date Received: 12/03/2007 1825

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 720-29500	Instrument ID:	Varian ICP
Preparation:	3050B	Prep Batch: 720-29257	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	1.01 g
Date Analyzed:	12/11/2007 2227		Final Weight/Volume:	50 mL
Date Prepared:	12/05/2007 1130			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		3.4		0.99
Lead		4.5		0.99

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: A1-1@2

Lab Sample ID:	720-12010-2	Date Sampled:	12/03/2007 0900
Client Matrix:	Solid	Date Received:	12/03/2007 1825

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 720-29500		Instrument ID:	Varian ICP
Preparation:	3050B	Prep Batch: 720-29257		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.98 g
Date Analyzed:	12/11/2007 2230			Final Weight/Volume:	50 mL
Date Prepared:	12/05/2007 1130				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		3.7		1.0
Lead		4.6		1.0

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: A1-1@7.5

Lab Sample ID:	720-12010-3	Date Sampled:	12/03/2007 0915
Client Matrix:	Solid	Date Received:	12/03/2007 1825

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 720-29500		Instrument ID:	Varian ICP
Preparation:	3050B	Prep Batch: 720-29257		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Date Analyzed:	12/11/2007 2241			Final Weight/Volume:	50 mL
Date Prepared:	12/05/2007 1130				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		2.8		0.95
Lead		3.8		0.95

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: A1-2@2

Lab Sample ID:	720-12010-5	Date Sampled:	12/03/2007 1650
Client Matrix:	Solid	Date Received:	12/03/2007 1825

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 720-29500		Instrument ID:	Varian ICP
Preparation:	3050B	Prep Batch: 720-29257		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.98 g
Date Analyzed:	12/11/2007 2248			Final Weight/Volume:	50 mL
Date Prepared:	12/05/2007 1130				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		3.9		1.0
Lead		4.8		1.0

Client: Fugro West Incorporated | Job Number: 720-12010-1

Client Sample ID: A1-2@7.5

Lab Sample ID:	720-12010-6	Date Sampled:	12/03/2007 1715
Client Matrix:	Solid	Date Received:	12/03/2007 1825

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 720-29500		Instrument ID:	Varian ICP
Preparation:	3050B	Prep Batch: 720-29257		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Date Analyzed:	12/11/2007 2252			Final Weight/Volume:	50 mL
Date Prepared:	12/05/2007 1130				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		2.6		0.95
Lead		2.3		0.95

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: Fugro West Incorporated Job Number: 720-12010-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 720-29231					
LCS 720-29231/1-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-29231/2-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-29231/3-A	Method Blank	T	Solid	5030B	
720-12010-1	A1-1@0	T	Solid	5030B	
720-12010-1MS	Matrix Spike	T	Solid	5030B	
720-12010-1MSD	Matrix Spike Duplicate	T	Solid	5030B	
720-12010-2	A1-1@2	T	Solid	5030B	
720-12010-3	A1-1@7.5	T	Solid	5030B	
720-12010-4	A1-2@0	T	Solid	5030B	
720-12010-5	A1-2@2	T	Solid	5030B	
720-12010-6	A1-2@7.5	T	Solid	5030B	
Analysis Batch:720-29255					
LCS 720-29231/1-A	Lab Control Spike	T	Solid	8260B	720-29231
LCSD 720-29231/2-A	Lab Control Spike Duplicate	T	Solid	8260B	720-29231
MB 720-29231/3-A	Method Blank	T	Solid	8260B	720-29231
720-12010-1	A1-1@0	T	Solid	8260B	720-29231
720-12010-1MS	Matrix Spike	T	Solid	8260B	720-29231
720-12010-1MSD	Matrix Spike Duplicate	T	Solid	8260B	720-29231
720-12010-2	A1-1@2	T	Solid	8260B	720-29231
720-12010-3	A1-1@7.5	T	Solid	8260B	720-29231
720-12010-4	A1-2@0	T	Solid	8260B	720-29231
720-12010-5	A1-2@2	T	Solid	8260B	720-29231
720-12010-6	A1-2@7.5	T	Solid	8260B	720-29231
Analysis Batch:720-29436					
LCS 720-29436/2	Lab Control Spike	T	Water	8260B	
LCSD 720-29436/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-29436/3	Method Blank	T	Water	8260B	
720-12010-7	A1-1	T	Water	8260B	
720-12010-8TB	TRIP BLANK	T	Water	8260B	
720-12010-9FD	A1-1 DUP	T	Water	8260B	

Report Basis
T = Total

Client: Fugro West Incorporated Job Number: 720-12010-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-29257					
LCS 720-29257/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-29257/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
MB 720-29257/1-A	Method Blank	T	Solid	3050B	
720-12010-1	A1-1@0	T	Solid	3050B	
720-12010-2	A1-1@2	T	Solid	3050B	
720-12010-3	A1-1@7.5	T	Solid	3050B	
720-12010-5	A1-2@2	T	Solid	3050B	
720-12010-6	A1-2@7.5	T	Solid	3050B	
Analysis Batch:720-29500					
LCS 720-29257/2-A	Lab Control Spike	T	Solid	6010B	720-29257
LCSD 720-29257/3-A	Lab Control Spike Duplicate	T	Solid	6010B	720-29257
MB 720-29257/1-A	Method Blank	T	Solid	6010B	720-29257
720-12010-1	A1-1@0	T	Solid	6010B	720-29257
720-12010-2	A1-1@2	T	Solid	6010B	720-29257
720-12010-3	A1-1@7.5	T	Solid	6010B	720-29257
720-12010-5	A1-2@2	T	Solid	6010B	720-29257
720-12010-6	A1-2@7.5	T	Solid	6010B	720-29257

Report Basis
T = Total

Client: Fugro West Incorporated Job Number: 720-12010-1

Method Blank - Batch: 720-29231

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29231/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/04/2007 1514
Date Prepared: 12/04/2007 1400

Analysis Batch: 720-29255
Prep Batch: 720-29231
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 120407005.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		5.0
Dichlorobromomethane	ND		5.0
Bromobenzene	ND		5.0
Chlorobromomethane	ND		20
Bromoform	ND		5.0
Bromomethane	ND		10
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		5.0
sec-Butylbenzene	ND		5.0
tert-Butylbenzene	ND		5.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		5.0
Chlorobenzene	ND		5.0
Chloroethane	ND		10
Chloroform	ND		5.0
Chloromethane	ND		10
2-Chlorotoluene	ND		5.0
4-Chlorotoluene	ND		5.0
Chlorodibromomethane	ND		5.0
1,2-Dichlorobenzene	ND		5.0
1,3-Dichlorobenzene	ND		5.0
1,4-Dichlorobenzene	ND		5.0
1,3-Dichloropropane	ND		5.0
1,1-Dichloropropene	ND		5.0
1,2-Dibromo-3-Chloropropane	ND		50
Ethylene Dibromide	ND		5.0
Dibromomethane	ND		10
Dichlorodifluoromethane	ND		10
1,1-Dichloroethane	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1-Dichloroethene	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
1,2-Dichloropropane	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Ethylbenzene	ND		5.0
Hexachlorobutadiene	ND		5.0
2-Hexanone	ND		50

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

Client: Fugro West Incorporated

Job Number: 720-12010-1

Method Blank - Batch: 720-29231

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29231/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/04/2007 1514
Date Prepared: 12/04/2007 1400

Analysis Batch: 720-29255
Prep Batch: 720-29231
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 120407005.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		5.0
4-Isopropyltoluene	ND		5.0
Methylene Chloride	ND		10
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		10
N-Propylbenzene	ND		5.0
Styrene	ND		5.0
1,1,1,2-Tetrachloroethane	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Tetrachloroethene	ND		5.0
Toluene	ND		5.0
1,2,3-Trichlorobenzene	ND		5.0
1,2,4-Trichlorobenzene	ND		5.0
1,1,1-Trichloroethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Trichloroethene	ND		5.0
Trichlorofluoromethane	ND		5.0
1,2,3-Trichloropropane	ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0
1,2,4-Trimethylbenzene	ND		5.0
1,3,5-Trimethylbenzene	ND		5.0
Vinyl acetate	ND		50
Vinyl chloride	ND		5.0
Xylenes, Total	ND		10
2,2-Dichloropropane	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	99	50 - 138
1,2-Dichloroethane-d4 (Surr)	100	66 - 127
Toluene-d8 (Surr)	97	51 - 129

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

Client: Fugro West Incorporated Job Number: 720-12010-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29231

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-29231/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/04/2007 1424
Date Prepared: 12/04/2007 1400

Analysis Batch: 720-29255
Prep Batch: 720-29231
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 120407003.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-29231/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/04/2007 1449
Date Prepared: 12/04/2007 1400

Analysis Batch: 720-29255
Prep Batch: 720-29231
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 120407004.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	93	95	80 - 120	2	20		
Chlorobenzene	92	95	86 - 115	4	20		
1,1-Dichloroethene	102	99	81 - 140	3	20		
Toluene	93	95	81 - 120	2	20		
Trichloroethene	92	96	82 - 118	4	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	103	93	50 - 138
1,2-Dichloroethane-d4 (Surr)	99	91	66 - 127
Toluene-d8 (Surr)	102	92	51 - 129

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

Client: Fugro West Incorporated

Job Number: 720-12010-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-29231

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-12010-1	Analysis Batch:	720-29255	Instrument ID:	Agilent 75MSD
Client Matrix:	Solid	Prep Batch:	720-29231	Lab File ID:	120407007.D
Dilution:	1.0			Initial Weight/Volume:	5.07 g
Date Analyzed:	12/04/2007 1605			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2007 1400				

MSD Lab Sample ID:	720-12010-1	Analysis Batch:	720-29255	Instrument ID:	Agilent 75MSD
Client Matrix:	Solid	Prep Batch:	720-29231	Lab File ID:	120407008.D
Dilution:	1.0			Initial Weight/Volume:	5.14 g
Date Analyzed:	12/04/2007 1630			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2007 1400				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	102	97	63 - 126	7	20		
Chlorobenzene	94	91	57 - 124	6	20		
1,1-Dichloroethene	111	105	66 - 149	7	20		
Toluene	99	95	54 - 131	6	20		
Trichloroethene	100	94	53 - 130	7	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	98	97	50 - 138
1,2-Dichloroethane-d4 (Surr)	93	97	66 - 127
Toluene-d8 (Surr)	96	96	51 - 129

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

Client: Fugro West Incorporated Job Number: 720-12010-1

Method Blank - Batch: 720-29436

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29436/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/10/2007 1130
Date Prepared: 12/10/2007 1130

Analysis Batch: 720-29436
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200712\12
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50

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

Client: Fugro West Incorporated

Job Number: 720-12010-1

Method Blank - Batch: 720-29436

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29436/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/10/2007 1130
Date Prepared: 12/10/2007 1130

Analysis Batch: 720-29436
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200712\12
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	110	83 - 127
1,2-Dichloroethane-d4 (Surr)	102	86 - 129
Toluene-d8 (Surr)	95	82 - 126

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

Client: Fugro West Incorporated

Job Number: 720-12010-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29436

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-29436/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/10/2007 1023
Date Prepared: 12/10/2007 1023

Analysis Batch: 720-29436
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200712\1
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-29436/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/10/2007 1057
Date Prepared: 12/10/2007 1057

Analysis Batch: 720-29436
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200712\121
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	88	89	69 - 129	1	20		
Chlorobenzene	101	101	61 - 121	1	20		
1,1-Dichloroethene	96	99	65 - 125	3	20		
Toluene	95	96	70 - 130	0	20		
Trichloroethene	90	90	74 - 134	1	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	104	96	83 - 127
1,2-Dichloroethane-d4 (Surr)	89	89	86 - 129
Toluene-d8 (Surr)	94	97	82 - 126

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

Client: Fugro West Incorporated

Job Number: 720-12010-1

Method Blank - Batch: 720-29257

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 720-29257/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/11/2007 2127
Date Prepared: 12/05/2007 1130

Analysis Batch: 720-29500
Prep Batch: 720-29257
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND		1.0
Lead	ND		1.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29257

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 720-29257/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/11/2007 2130
Date Prepared: 12/05/2007 1130

Analysis Batch: 720-29500
Prep Batch: 720-29257
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-29257/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/11/2007 2134
Date Prepared: 12/05/2007 1130

Analysis Batch: 720-29500
Prep Batch: 720-29257
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	86	84	80 - 120	2	20		
Lead	83	81	80 - 120	2	20		

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

720-12010 Rev.

108408

PAGE 1 OF 1

ES-F10 CHAIN OF CUSTODY

PROJECT NAME: Livermore HAZMAT Services

PROJECT NO.: 112.014

LAB: Test America

PROJECT CONTACT: Karen Emery

TURNAROUND: 5 Day

SAMPLED BY: Karen Emery

LABORATORY I.D. NUMBER	FIELD SAMPLE I.D.	MATRIX: WATER	MATRIX: SOIL	MATRIX: AIR	CONTAINERS: VOA	CONTAINERS: LITER	CONTAINERS: PINT	CONTAINERS: TUBE	PRESERVATIVE: HCL	PRESERVATIVE: H_2SO_4	PRESERVATIVE: HNO_3	PRESERVATIVE: ICE	PRESERVATIVE: OTHER	PRESERVATIVE: NONE	SAMPLING DATE: MONTH	DAY	YEAR	TIME	NOTES	ANALYSIS REQUESTED: AS	PD	VOC's	EDF Reporting
	A1-1@0		X					X				X			12	03	07	0845		X	X	X	
	A1-1@2		↓					↓				↓			12	03	07	0910		↓	↓	↓	
	A1-1@7.5														12	03	07	0941					
	A1-2@0														12	03	07	1642					
	A1-2@2														12	03	07	1655					
	A1-2@7.5		↓					↓				↓			12	03	07	1711					
	A1-1	X			X				X			X			12	03	07	1430				X	
*	A1-1 Dup	X			X				X			X			12	03	07	1430				X	
	Trip Blank	X			X				X			X			12	03	07	—				X	

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
Karen Emery	12/3/07 18:25		12/3/07 1825
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

COMMENTS & NOTES:

* ADDED A1-1 Dup on 12/4/07

COPY

Temp 4.2°C

FUGRO WEST, INC.

1000 Broadway, Suite 440

Oakland, California 94607

Tel: 510.268.0461 Fax: 510.268.0545

Approved by Glenn Young, AC 62 Manager, Fugro West, Inc. 10/15/07.

Note: If this is a printed copy, please check the online QMS to ensure that it is the latest version.

Login Sample Receipt Check List

Client: Fugro West Incorporated

Job Number: 720-12010-1

Login Number: 12010

List Source: TestAmerica San Francisco

Creator: Bullock, Tracy

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	Client revised COC 12/4/07
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-12010-2

Job Description: Livermore HAZMAT Services

For:
Fugro West Incorporated
1000 Broadway, Suite 440
Oakland, CA 94607

Attention: Ms. Karen Emery

Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
12/13/2007

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

Metals
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Fugro West Incorporated Job Number: 720-12010-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-12010-4	**A1-2@0**				
Arsenic		3.9	1.0	mg/Kg	6010B
Barium		160	1.0	mg/Kg	6010B
Chromium		58	1.0	mg/Kg	6010B
Cobalt		14	1.0	mg/Kg	6010B
Copper		28	1.0	mg/Kg	6010B
Lead		5.6	1.0	mg/Kg	6010B
Nickel		120	1.0	mg/Kg	6010B
Vanadium		25	1.0	mg/Kg	6010B
Zinc		41	1.0	mg/Kg	6010B

METHOD SUMMARY

Client: Fugro West Incorporated Job Number: 720-12010-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Acid Digestion of Sediments, Sludges, and Soils	TAL SF		SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL SF	SW846 7471A	
Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

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

SAMPLE SUMMARY

Client: Fugro West Incorporated Job Number: 720-12010-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-12010-4	A1-2@0	Solid	12/03/2007 1642	12/03/2007 1825

Client: Fugro West Incorporated | Job Number: 720-12010-2

Client Sample ID: A1-2@0

Lab Sample ID: 720-12010-4 | Date Sampled: 12/03/2007 1642
Client Matrix: Solid | Date Received: 12/03/2007 1825

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 720-29548	Instrument ID:	Varian ICP
Preparation:	3050B	Prep Batch: 720-29377	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	0.99 g
Date Analyzed:	12/12/2007 2344		Final Weight/Volume:	50 mL
Date Prepared:	12/07/2007 1530			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Antimony		ND		2.0
Arsenic		3.9		1.0
Barium		160		1.0
Beryllium		ND		0.51
Cadmium		ND		0.51
Chromium		58		1.0
Cobalt		14		1.0
Copper		28		1.0
Lead		5.6		1.0
Molybdenum		ND		1.0
Nickel		120		1.0
Selenium		ND		2.0
Silver		ND		1.0
Thallium		ND		1.0
Vanadium		25		1.0
Zinc		41		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:	7471A	Analysis Batch: 720-29531	Instrument ID:	FIMS 100
Preparation:	7471A	Prep Batch: 720-29482	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	1.02 g
Date Analyzed:	12/12/2007 1508		Final Weight/Volume:	50 mL
Date Prepared:	12/11/2007 1442			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.049

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: Fugro West Incorporated Job Number: 720-12010-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-29377					
LCS 720-29377/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-29377/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
LCSSRM 720-29377/25-A	LCS-Standard Reference Material	T	Solid	3050B	
MB 720-29377/1-A	Method Blank	T	Solid	3050B	
720-12010-4	A1-2@0	T	Solid	3050B	
Prep Batch: 720-29482					
LCS 720-29482/2-A	Lab Control Spike	T	Solid	7471A	
LCSD 720-29482/3-A	Lab Control Spike Duplicate	T	Solid	7471A	
MB 720-29482/1-A	Method Blank	T	Solid	7471A	
720-12010-4	A1-2@0	T	Solid	7471A	
Analysis Batch:720-29531					
LCS 720-29482/2-A	Lab Control Spike	T	Solid	7471A	720-29482
LCSD 720-29482/3-A	Lab Control Spike Duplicate	T	Solid	7471A	720-29482
MB 720-29482/1-A	Method Blank	T	Solid	7471A	720-29482
720-12010-4	A1-2@0	T	Solid	7471A	720-29482
Analysis Batch:720-29548					
LCS 720-29377/2-A	Lab Control Spike	T	Solid	6010B	720-29377
LCSD 720-29377/3-A	Lab Control Spike Duplicate	T	Solid	6010B	720-29377
LCSSRM 720-29377/25-A	LCS-Standard Reference Material	T	Solid	6010B	720-29377
MB 720-29377/1-A	Method Blank	T	Solid	6010B	720-29377
720-12010-4	A1-2@0	T	Solid	6010B	720-29377

Report Basis
T = Total

Client: Fugro West Incorporated

Job Number: 720-12010-2

Method Blank - Batch: 720-29377

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 720-29377/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/12/2007 2220
Date Prepared: 12/07/2007 1530

Analysis Batch: 720-29548
Prep Batch: 720-29377
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Antimony	ND		2.0
Arsenic	ND		1.0
Barium	ND		1.0
Beryllium	ND		0.50
Cadmium	ND		0.50
Chromium	ND		1.0
Cobalt	ND		1.0
Copper	ND		1.0
Lead	ND		1.0
Molybdenum	ND		1.0
Nickel	ND		1.0
Selenium	ND		2.0
Silver	ND		1.0
Thallium	ND		1.0
Vanadium	ND		1.0
Zinc	ND		1.0

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

Client: Fugro West Incorporated

Job Number: 720-12010-2

LCS-Standard Reference Material - Batch: 720-29377

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCSSRM 720-29377/25-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/12/2007 2359
Date Prepared: 12/07/2007 1530

Analysis Batch: 720-29548
Prep Batch: 720-29377
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.02 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	27.4	18.3	67	14 - 96	
Arsenic	22.7	19.9	87	72 - 128	
Barium	145	122	84	80 - 120	
Beryllium	1.09	0.931	85	65 - 134	
Cadmium	42.2	36.3	86	80 - 120	
Chromium	246	216	88	80 - 120	
Cobalt	65.1	60.3	93	72 - 128	
Copper	58.5	53.2	91	80 - 120	
Lead	44.1	36.3	82	75 - 126	
Molybdenum	61.0	53.2	87	62 - 138	
Nickel	96.8	83.2	86	80 - 120	
Selenium	165	143	87	80 - 120	
Silver	79.5	64.0	80	72 - 127	
Thallium	55.9	48.9	88	79 - 121	
Vanadium	56.7	51.7	91	63 - 137	
Zinc	44.0	37.3	85	75 - 125	

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

Client: Fugro West Incorporated

Job Number: 720-12010-2

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29377

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 720-29377/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/12/2007 2223
Date Prepared: 12/07/2007 1530

Analysis Batch: 720-29548
Prep Batch: 720-29377
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-29377/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/12/2007 2227
Date Prepared: 12/07/2007 1530

Analysis Batch: 720-29548
Prep Batch: 720-29377
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Antimony	99	101	80 - 120	2	20		
Arsenic	100	101	80 - 120	1	20		
Barium	94	95	80 - 120	1	20		
Beryllium	100	102	80 - 120	2	20		
Cadmium	94	95	80 - 120	1	20		
Chromium	98	100	80 - 120	1	20		
Cobalt	98	100	80 - 120	1	20		
Copper	100	102	80 - 120	2	20		
Lead	96	98	80 - 120	1	20		
Molybdenum	99	101	80 - 120	2	20		
Nickel	96	98	80 - 120	1	20		
Selenium	99	101	80 - 120	2	20		
Silver	102	103	80 - 120	1	20		
Thallium	95	97	80 - 120	1	20		
Vanadium	99	101	80 - 120	2	20		
Zinc	96	97	80 - 120	1	20		

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

Client: Fugro West Incorporated

Job Number: 720-12010-2

Method Blank - Batch: 720-29482

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 720-29482/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/12/2007 1449
Date Prepared: 12/11/2007 1442

Analysis Batch: 720-29531
Prep Batch: 720-29482
Units: mg/Kg

Instrument ID: FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Mercury	ND		0.050

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29482

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 720-29482/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/12/2007 1451
Date Prepared: 12/11/2007 1442

Analysis Batch: 720-29531
Prep Batch: 720-29482
Units: mg/Kg

Instrument ID: FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-29482/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/12/2007 1452
Date Prepared: 12/11/2007 1442

Analysis Batch: 720-29531
Prep Batch: 720-29482
Units: mg/Kg

Instrument ID: FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	100	99	85 - 115	0	20		

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

Login Sample Receipt Check List

Client: Fugro West Incorporated

Job Number: 720-12010-2

Login Number: 12010
List Source: TestAmerica San Francisco
Creator: Bullock, Tracy
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	Client revised COC 12/4/07
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 720-12010-3

Job Description: Livermore HAZMAT Services

For:
Fugro West Incorporated
1000 Broadway, Suite 440
Oakland, CA 94607

Attention: Ms. Karen Emery

Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
12/28/2007

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 484-1096 www.testamericainc.com

Job Narrative
720-J12010-3

Comments
No additional comments.

Receipt
The following samples were analyzed outside the method defined holding time because the request for the test was made after the holding time for the sample expired: A1-2@2 (720-12010-5), A1-2@7.5 (720-12010-6)

All other samples were received in good condition within temperature requirements.

GC/MS VOA
Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 30066 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Fugro West Incorporated Job Number: 720-12010-3

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: Fugro West Incorporated Job Number: 720-12010-3

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	TAL SF	SW846 8260B	
Purge and Trap for Solids	TAL SF		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

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

SAMPLE SUMMARY

Client: Fugro West Incorporated Job Number: 720-12010-3

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-12010-5	A1-2@2	Solid	12/03/2007 1650	12/03/2007 1825
720-12010-6	A1-2@7.5	Solid	12/03/2007 1715	12/03/2007 1825

Client: Fugro West Incorporated | Job Number: 720-12010-3

Client Sample ID: **A1-2@2**

Lab Sample ID: 720-12010-5 | Date Sampled: 12/03/2007 1650
Client Matrix: Solid | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 720-30066	Instrument ID: Varian 3900E
Preparation:	5030B	Prep Batch: 720-30064	Lab File ID: c:\varianws\data\200712\12
Dilution:	1.0		Initial Weight/Volume: 5.87 g
Date Analyzed:	12/23/2007 1806		Final Weight/Volume: 10 mL
Date Prepared:	12/23/2007 1239		

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		ND	H	0.21

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	60 - 140
Toluene-d8 (Surr)	97	70 - 130

Client: Fugro West Incorporated | Job Number: 720-12010-3

Client Sample ID: **A1-2@7.5**

Lab Sample ID: 720-12010-6 | Date Sampled: 12/03/2007 1715
Client Matrix: Solid | Date Received: 12/03/2007 1825

8260B Volatile Organic Compounds by GC/MS

Method: 8260B | Analysis Batch: 720-30066 | Instrument ID: Varian 3900E
Preparation: 5030B | Prep Batch: 720-30064 | Lab File ID: c:\varianws\data\200712\12
Dilution: 1.0 | Initial Weight/Volume: 5.10 g
Date Analyzed: 12/23/2007 1943 | Final Weight/Volume: 10 mL
Date Prepared: 12/23/2007 1239

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		ND	H	0.25

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91	60 - 140
Toluene-d8 (Surr)	96	70 - 130

Client: Fugro West Incorporated | Job Number: 720-12010-3

Client Sample ID: A1-2@2

Lab Sample ID: 720-12010-5 | Date Sampled: 12/03/2007 1650
Client Matrix: Solid | Date Received: 12/03/2007 1825

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

Method:	8015B	Analysis Batch: 720-30214		Instrument ID:	HP DRO5
Preparation:	3550B	Prep Batch: 720-30123		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	30.22 g
Date Analyzed:	12/28/2007 1229			Final Weight/Volume:	5 mL
Date Prepared:	12/27/2007 1155			Injection Volume:	
				Column ID:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND	H	0.99
Motor Oil Range Organics [C24-C36]		ND	H	50

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	92	41 - 105

Client: Fugro West Incorporated | Job Number: 720-12010-3

Client Sample ID: A1-2@7.5

Lab Sample ID: 720-12010-6 | Date Sampled: 12/03/2007 1715
Client Matrix: Solid | Date Received: 12/03/2007 1825

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

Method:	8015B	Analysis Batch: 720-30214		Instrument ID:	HP DRO5
Preparation:	3550B	Prep Batch: 720-30123		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	30.30 g
Date Analyzed:	12/28/2007 1135			Final Weight/Volume:	5 mL
Date Prepared:	12/27/2007 1155			Injection Volume:	
				Column ID:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND	H	0.99
Motor Oil Range Organics [C24-C36]		ND	H	50

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	97	41 - 105

DATA REPORTING QUALIFIERS

Client: Fugro West Incorporated Job Number: 720-12010-3

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS or MSD exceeds the control limits
	H	Sample was prepped or analyzed beyond the specified holding time
GC Semi VOA		
	H	Sample was prepped or analyzed beyond the specified holding time

Client: Fugro West Incorporated Job Number: 720-12010-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 720-30064					
LCS 720-30064/2-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-30064/3-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-30064/1-A	Method Blank	T	Solid	5030B	
720-12010-5	A1-2@2	T	Solid	5030B	
720-12010-5MS	Matrix Spike	T	Solid	5030B	
720-12010-5MSD	Matrix Spike Duplicate	T	Solid	5030B	
720-12010-6	A1-2@7.5	T	Solid	5030B	
Analysis Batch:720-30066					
LCS 720-30064/2-A	Lab Control Spike	T	Solid	8260B	720-30064
LCSD 720-30064/3-A	Lab Control Spike Duplicate	T	Solid	8260B	720-30064
MB 720-30064/1-A	Method Blank	T	Solid	8260B	720-30064
720-12010-5	A1-2@2	T	Solid	8260B	720-30064
720-12010-5MS	Matrix Spike	T	Solid	8260B	720-30064
720-12010-5MSD	Matrix Spike Duplicate	T	Solid	8260B	720-30064
720-12010-6	A1-2@7.5	T	Solid	8260B	720-30064

Report Basis
T = Total

GC Semi VOA					
Prep Batch: 720-30123					
LCS 720-30123/2-A	Lab Control Spike	A	Solid	3550B	
LCSD 720-30123/3-A	Lab Control Spike Duplicate	A	Solid	3550B	
MB 720-30123/1-A	Method Blank	A	Solid	3550B	
720-12010-5	A1-2@2	A	Solid	3550B	
720-12010-6	A1-2@7.5	A	Solid	3550B	
Analysis Batch:720-30214					
LCS 720-30123/2-A	Lab Control Spike	A	Solid	8015B	720-30123
LCSD 720-30123/3-A	Lab Control Spike Duplicate	A	Solid	8015B	720-30123
MB 720-30123/1-A	Method Blank	A	Solid	8015B	720-30123
720-12010-5	A1-2@2	A	Solid	8015B	720-30123
720-12010-6	A1-2@7.5	A	Solid	8015B	720-30123

Report Basis
A = Silica Gel Cleanup

Client: Fugro West Incorporated

Job Number: 720-12010-3

Method Blank - Batch: 720-30064

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-30064/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/23/2007 1641
Date Prepared: 12/23/2007 1239

Analysis Batch: 720-30066
Prep Batch: 720-30064
Units: mg/Kg

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200712\12
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.0050
Toluene	ND		0.0050
Gasoline Range Organics (GRO)-C5-C12	ND		0.25

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91	60 - 140
Toluene-d8 (Surr)	97	70 - 130

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-30064

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-30064/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/23/2007 1712
Date Prepared: 12/23/2007 1239

Analysis Batch: 720-30066
Prep Batch: 720-30064
Units: mg/Kg

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200712\12
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-30064/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/23/2007 1735
Date Prepared: 12/23/2007 1239

Analysis Batch: 720-30066
Prep Batch: 720-30064
Units: mg/Kg

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200712\122
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	96	92	70 - 123	5	20		
Toluene	100	99	81 - 128	1	20		
Gasoline Range Organics (GRO)-C5-C12	66	62	51 - 97	6	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	94	60 - 140
Toluene-d8 (Surr)	98	98	70 - 130

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

Client: Fugro West Incorporated

Job Number: 720-12010-3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-30064

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-12010-5	Analysis Batch: 720-30066	Instrument ID: Varian 3900E
Client Matrix:	Solid	Prep Batch: 720-30064	Lab File ID: c:\varianws\data\200712\
Dilution:	1.0		Initial Weight/Volume: 5.62 g
Date Analyzed:	12/23/2007 1831		Final Weight/Volume: 10 mL
Date Prepared:	12/23/2007 1239		

MSD Lab Sample ID:	720-12010-5	Analysis Batch: 720-30066	Instrument ID: Varian 3900E
Client Matrix:	Solid	Prep Batch: 720-30064	Lab File ID: c:\varianws\data\200712\12
Dilution:	1.0		Initial Weight/Volume: 5.66 g
Date Analyzed:	12/23/2007 1855		Final Weight/Volume: 10 mL
Date Prepared:	12/23/2007 1239		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	81	81	70 - 123	1	20		
Toluene	91	88	81 - 128	4	20		
Gasoline Range Organics (GRO)-C5-C12	49	50	51 - 97	0	20	F	F

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	95	60 - 140
Toluene-d8 (Surr)	100	98	70 - 130

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

Client: Fugro West Incorporated Job Number: 720-12010-3

Method Blank - Batch: 720-30123

Method: 8015B
Preparation: 3550B
Silica Gel Cleanup

Lab Sample ID: MB 720-30123/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/28/2007 0948
Date Prepared: 12/27/2007 1155

Analysis Batch: 720-30214
Prep Batch: 720-30123
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.30 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		0.99
Motor Oil Range Organics [C24-C36]	ND		50

Surrogate	% Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	101	41 - 105

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-30123

Method: 8015B
Preparation: 3550B
Silica Gel Cleanup

LCS Lab Sample ID: LCS 720-30123/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/28/2007 1014
Date Prepared: 12/27/2007 1155

Analysis Batch: 720-30214
Prep Batch: 720-30123
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.14 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-30123/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/28/2007 1041
Date Prepared: 12/27/2007 1155

Analysis Batch: 720-30214
Prep Batch: 720-30123
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.20 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	64	63	50 - 130	2	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
p-Terphenyl	104	98	41 - 105

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

720 - 12010 Rev.

108408

PAGE 1 OF 1

ES-F10 CHAIN OF CUSTODY

PROJECT NAME: Livermore HAZMAT Services

PROJECT NO.: 1124.014 LAB: Test America

PROJECT CONTACT: Karen Emery TURNAROUND: 5 Day

SAMPLED BY: Karen Emery

LABORATORY I.D. NUMBER	FIELD SAMPLE I.D.	MATRIX: WATER	SOIL	AIR	CONTAINERS: VOA	LITER	PINT	TUBE		PRESERVATIVE: HCL	H_2SO_4	HNO_3	ICE	OTHER	NONE	SAMPLING DATE: MONTH	DAY	YEAR	TIME	NOTES	ANALYSIS REQUESTED: [illegible]	[illegible]	VOCs	TPHg	TPHd and TPHmo w/ Silica gel added 12/4/07			EDF Reporting
	AI-1@0		X					X					X			12	03	07	0845		X	X	X					
	AI-1@2		↓					↓					↓			12	03	07	0900		↓	↓	↓					
	AI-1@7.5		↓					↓					↓			12	03	07	0915		↓	↓	↓					
	AI-2@0		↓					↓					↓			12	03	07	1640		↓	↓	↓	⊗	⊗			
	AI-2@2		↓					↓					↓			12	03	07	1655		↓	↓	↓	⊗	⊗			
	AI-2@7.5		↓					↓					↓			12	03	07	1715		↓	↓	↓					
	AI-1	X			X					X			X			12	03	07	1430				X					
	* AI-1 Dup	X			X					X			X			12	03	07	1430				X					
	Trip Blank	X			X					X			X			12	03	07	—				X					

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
Karen Emery	12/3/07 18:25	[signature]	12/3/07 1825
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

COMMENTS & NOTES:
* ADDED AI-1 Dup on 12/4/07

COPY

Temp 4.2°C

FUGRO WEST, INC.
1000 Broadway, Suite 440
Oakland, California 94607
Tel: 510.268.0461 Fax: 510.268.0546

Approved by Glenn Young, AC 62 Manager, Fugro West, Inc. 10/15/07.
Note: If this is a printed copy, please check the online QMS to ensure that it is the latest version.

Login Sample Receipt Check List

Client: Fugro West Incorporated

Job Number: 720-12010-3

Login Number: 12010

List Source: TestAmerica San Francisco

Creator: Bullock, Tracy

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	Client revised COC 12/4/07
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-12037-1

Job Description: Livermore HAZMAT Services

For:
Fugro West Incorporated
1000 Broadway, Suite 440
Oakland, CA 94607

Attention: Ms. Karen Emery

Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
12/14/2007

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 29319 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Fugro West Incorporated Job Number: 720-12037-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-12037-1	**DP1-1@0**				
Arsenic		3.5	0.97	mg/Kg	6010B
Lead		4.8	0.97	mg/Kg	6010B
720-12037-2	**DP1-1@2**				
Arsenic		3.6	0.99	mg/Kg	6010B
Lead		4.2	0.99	mg/Kg	6010B
720-12037-3	**DP1-1@7.5**				
Arsenic		2.6	0.98	mg/Kg	6010B
Lead		2.9	0.98	mg/Kg	6010B
720-12037-4	**DP1-2@0**				
Arsenic		3.8	0.95	mg/Kg	6010B
Lead		5.3	0.95	mg/Kg	6010B
720-12037-5	**DP1-2@2**				
Arsenic		4.0	0.97	mg/Kg	6010B
Lead		5.6	0.97	mg/Kg	6010B
720-12037-6	**DP1-2@7.5**				
Arsenic		3.5	0.99	mg/Kg	6010B
Lead		4.5	0.99	mg/Kg	6010B
720-12037-7	**DP1-3@0**				
Arsenic		3.9	0.99	mg/Kg	6010B
Lead		5.2	0.99	mg/Kg	6010B
720-12037-8	**DP1-3@2**				
Arsenic		4.6	1.0	mg/Kg	6010B
Lead		5.4	1.0	mg/Kg	6010B
720-12037-9	**DP1-3@7.5**				
Arsenic		3.4	1.0	mg/Kg	6010B
Lead		2.9	1.0	mg/Kg	6010B

EXECUTIVE SUMMARY - Detections

Client: Fugro West Incorporated Job Number: 720-12037-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-12037-10	**DP1-4@0**				
Acetone		84	50	ug/Kg	8260B
Arsenic		2.7	0.97	mg/Kg	6010B
Lead		8.9	0.97	mg/Kg	6010B
720-12037-11	**DP1-4@2**				
Arsenic		3.6	1.0	mg/Kg	6010B
Lead		4.9	1.0	mg/Kg	6010B
720-12037-12	**DP1-4@7.5**				
Arsenic		5.0	0.99	mg/Kg	6010B
Lead		4.1	0.99	mg/Kg	6010B
720-12037-13	**DP1-5@0**				
Arsenic		5.4	0.99	mg/Kg	6010B
Lead		44	0.99	mg/Kg	6010B
720-12037-14	**DP1-5@2**				
Arsenic		3.5	1.0	mg/Kg	6010B
Lead		4.8	1.0	mg/Kg	6010B
720-12037-15	**DP1-5@7.5**				
Arsenic		3.2	0.95	mg/Kg	6010B
Lead		3.3	0.95	mg/Kg	6010B
720-12037-17	**DP1-6@2**				
Arsenic		4.2	0.95	mg/Kg	6010B
Lead		5.6	0.95	mg/Kg	6010B
720-12037-18	**DP1-6@7.5**				
Arsenic		4.4	1.0	mg/Kg	6010B
Lead		5.5	1.0	mg/Kg	6010B

METHOD SUMMARY

Client: Fugro West Incorporated Job Number: 720-12037-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS (Low Level)	TAL SF	SW846 8260B	
Purge and Trap for Solids	TAL SF		SW846 5030B
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Acid Digestion of Sediments, Sludges, and Soils	TAL SF		SW846 3050B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

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

SAMPLE SUMMARY

Client: Fugro West Incorporated Job Number: 720-12037-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-12037-1	DP1-1@0	Solid	12/04/2007 0851	12/04/2007 1727
720-12037-2	DP1-1@2	Solid	12/04/2007 0856	12/04/2007 1727
720-12037-3	DP1-1@7.5	Solid	12/04/2007 0902	12/04/2007 1727
720-12037-4	DP1-2@0	Solid	12/04/2007 0924	12/04/2007 1727
720-12037-5	DP1-2@2	Solid	12/04/2007 0929	12/04/2007 1727
720-12037-6	DP1-2@7.5	Solid	12/04/2007 0935	12/04/2007 1727
720-12037-7	DP1-3@0	Solid	12/04/2007 0959	12/04/2007 1727
720-12037-8	DP1-3@2	Solid	12/04/2007 1002	12/04/2007 1727
720-12037-9	DP1-3@7.5	Solid	12/04/2007 1007	12/04/2007 1727
720-12037-10	DP1-4@0	Solid	12/04/2007 1035	12/04/2007 1727
720-12037-11	DP1-4@2	Solid	12/04/2007 1039	12/04/2007 1727
720-12037-12	DP1-4@7.5	Solid	12/04/2007 1045	12/04/2007 1727
720-12037-13	DP1-5@0	Solid	12/04/2007 1118	12/04/2007 1727
720-12037-14	DP1-5@2	Solid	12/04/2007 1121	12/04/2007 1727
720-12037-15	DP1-5@7.5	Solid	12/04/2007 1126	12/04/2007 1727
720-12037-16	DP1-6@0	Solid	12/04/2007 1203	12/04/2007 1727
720-12037-17	DP1-6@2	Solid	12/04/2007 1208	12/04/2007 1727
720-12037-18	DP1-6@7.5	Solid	12/04/2007 1212	12/04/2007 1727

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-1@0**

Lab Sample ID: 720-12037-1 | Date Sampled: 12/04/2007 0851
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507007.D
Dilution: 1.0 | Initial Weight/Volume: 5.11 g
Date Analyzed: 12/05/2007 1407 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Acetone		ND		49
Benzene		ND		4.9
Dichlorobromomethane		ND		4.9
Bromobenzene		ND		4.9
Chlorobromomethane		ND		20
Bromoform		ND		4.9
Bromomethane		ND		9.8
2-Butanone (MEK)		ND		49
n-Butylbenzene		ND		4.9
sec-Butylbenzene		ND		4.9
tert-Butylbenzene		ND		4.9
Carbon disulfide		ND		4.9
Carbon tetrachloride		ND		4.9
Chlorobenzene		ND		4.9
Chloroethane		ND		9.8
Chloroform		ND		4.9
Chloromethane		ND		9.8
2-Chlorotoluene		ND		4.9
4-Chlorotoluene		ND		4.9
Chlorodibromomethane		ND		4.9
1,2-Dichlorobenzene		ND		4.9
1,3-Dichlorobenzene		ND		4.9
1,4-Dichlorobenzene		ND		4.9
1,3-Dichloropropane		ND		4.9
1,1-Dichloropropene		ND		4.9
1,2-Dibromo-3-Chloropropane		ND		49
Ethylene Dibromide		ND		4.9
Dibromomethane		ND		9.8
Dichlorodifluoromethane		ND		9.8
1,1-Dichloroethane		ND		4.9
1,2-Dichloroethane		ND		4.9
1,1-Dichloroethene		ND		4.9
cis-1,2-Dichloroethene		ND		4.9
trans-1,2-Dichloroethene		ND		4.9
1,2-Dichloropropane		ND		4.9
cis-1,3-Dichloropropene		ND		4.9
trans-1,3-Dichloropropene		ND		4.9
Ethylbenzene		ND		4.9
Hexachlorobutadiene		ND		4.9
2-Hexanone		ND		49
Isopropylbenzene		ND		4.9
4-Isopropyltoluene		ND		4.9
Methylene Chloride		ND		9.8

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-1@0**

Lab Sample ID: 720-12037-1 | Date Sampled: 12/04/2007 0851
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-29323	Instrument ID: Agilent 75MSD
Preparation:	5030B	Prep Batch: 720-29261	Lab File ID: 120507007.D
Dilution:	1.0		Initial Weight/Volume: 5.11 g
Date Analyzed:	12/05/2007 1407		Final Weight/Volume: 10 mL
Date Prepared:	12/05/2007 1130		

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		49
Naphthalene		ND		9.8
N-Propylbenzene		ND		4.9
Styrene		ND		4.9
1,1,1,2-Tetrachloroethane		ND		4.9
1,1,2,2-Tetrachloroethane		ND		4.9
Tetrachloroethene		ND		4.9
Toluene		ND		4.9
1,2,3-Trichlorobenzene		ND		4.9
1,2,4-Trichlorobenzene		ND		4.9
1,1,1-Trichloroethane		ND		4.9
1,1,2-Trichloroethane		ND		4.9
Trichloroethene		ND		4.9
Trichlorofluoromethane		ND		4.9
1,2,3-Trichloropropane		ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.9
1,2,4-Trimethylbenzene		ND		4.9
1,3,5-Trimethylbenzene		ND		4.9
Vinyl acetate		ND		49
Vinyl chloride		ND		4.9
Xylenes, Total		ND		9.8
2,2-Dichloropropane		ND		4.9

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	100	50 - 138
1,2-Dichloroethane-d4 (Surr)	105	66 - 127
Toluene-d8 (Surr)	94	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-1@2**

Lab Sample ID: 720-12037-2 | Date Sampled: 12/04/2007 0856
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-29323		Instrument ID:	Agilent 75MSD
Preparation:	5030B	Prep Batch: 720-29261		Lab File ID:	120507010.D
Dilution:	1.0			Initial Weight/Volume:	5.02 g
Date Analyzed:	12/05/2007 1522			Final Weight/Volume:	10 mL
Date Prepared:	12/05/2007 1130				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Acetone		ND		50
Benzene		ND		5.0
Dichlorobromomethane		ND		5.0
Bromobenzene		ND		5.0
Chlorobromomethane		ND		20
Bromoform		ND		5.0
Bromomethane		ND		10
2-Butanone (MEK)		ND		50
n-Butylbenzene		ND		5.0
sec-Butylbenzene		ND		5.0
tert-Butylbenzene		ND		5.0
Carbon disulfide		ND		5.0
Carbon tetrachloride		ND		5.0
Chlorobenzene		ND		5.0
Chloroethane		ND		10
Chloroform		ND		5.0
Chloromethane		ND		10
2-Chlorotoluene		ND		5.0
4-Chlorotoluene		ND		5.0
Chlorodibromomethane		ND		5.0
1,2-Dichlorobenzene		ND		5.0
1,3-Dichlorobenzene		ND		5.0
1,4-Dichlorobenzene		ND		5.0
1,3-Dichloropropane		ND		5.0
1,1-Dichloropropene		ND		5.0
1,2-Dibromo-3-Chloropropane		ND		50
Ethylene Dibromide		ND		5.0
Dibromomethane		ND		10
Dichlorodifluoromethane		ND		10
1,1-Dichloroethane		ND		5.0
1,2-Dichloroethane		ND		5.0
1,1-Dichloroethene		ND		5.0
cis-1,2-Dichloroethene		ND		5.0
trans-1,2-Dichloroethene		ND		5.0
1,2-Dichloropropane		ND		5.0
cis-1,3-Dichloropropene		ND		5.0
trans-1,3-Dichloropropene		ND		5.0
Ethylbenzene		ND		5.0
Hexachlorobutadiene		ND		5.0
2-Hexanone		ND		50
Isopropylbenzene		ND		5.0
4-Isopropyltoluene		ND		5.0
Methylene Chloride		ND		10

Client: Fugro West Incorporated

Job Number: 720-12037-1

Client Sample ID: **DP1-1@2**

Lab Sample ID: 720-12037-2
Client Matrix: Solid

Date Sampled: 12/04/2007 0856
Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/05/2007 1522
Date Prepared: 12/05/2007 1130

Analysis Batch: 720-29323
Prep Batch: 720-29261

Instrument ID: Agilent 75MSD
Lab File ID: 120507010.D
Initial Weight/Volume: 5.02 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		50
Naphthalene		ND		10
N-Propylbenzene		ND		5.0
Styrene		ND		5.0
1,1,1,2-Tetrachloroethane		ND		5.0
1,1,2,2-Tetrachloroethane		ND		5.0
Tetrachloroethene		ND		5.0
Toluene		ND		5.0
1,2,3-Trichlorobenzene		ND		5.0
1,2,4-Trichlorobenzene		ND		5.0
1,1,1-Trichloroethane		ND		5.0
1,1,2-Trichloroethane		ND		5.0
Trichloroethene		ND		5.0
Trichlorofluoromethane		ND		5.0
1,2,3-Trichloropropane		ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.0
1,2,4-Trimethylbenzene		ND		5.0
1,3,5-Trimethylbenzene		ND		5.0
Vinyl acetate		ND		50
Vinyl chloride		ND		5.0
Xylenes, Total		ND		10
2,2-Dichloropropane		ND		5.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	89	50 - 138
1,2-Dichloroethane-d4 (Surr)	103	66 - 127
Toluene-d8 (Surr)	95	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-1@7.5**

Lab Sample ID: 720-12037-3 | Date Sampled: 12/04/2007 0902
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-29323		Instrument ID:	Agilent 75MSD
Preparation:	5030B	Prep Batch: 720-29261		Lab File ID:	120507011.D
Dilution:	1.0			Initial Weight/Volume:	5.16 g
Date Analyzed:	12/05/2007 1547			Final Weight/Volume:	10 mL
Date Prepared:	12/05/2007 1130				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.8
Acetone		ND		48
Benzene		ND		4.8
Dichlorobromomethane		ND		4.8
Bromobenzene		ND		4.8
Chlorobromomethane		ND		19
Bromoform		ND		4.8
Bromomethane		ND		9.7
2-Butanone (MEK)		ND		48
n-Butylbenzene		ND		4.8
sec-Butylbenzene		ND		4.8
tert-Butylbenzene		ND		4.8
Carbon disulfide		ND		4.8
Carbon tetrachloride		ND		4.8
Chlorobenzene		ND		4.8
Chloroethane		ND		9.7
Chloroform		ND		4.8
Chloromethane		ND		9.7
2-Chlorotoluene		ND		4.8
4-Chlorotoluene		ND		4.8
Chlorodibromomethane		ND		4.8
1,2-Dichlorobenzene		ND		4.8
1,3-Dichlorobenzene		ND		4.8
1,4-Dichlorobenzene		ND		4.8
1,3-Dichloropropane		ND		4.8
1,1-Dichloropropene		ND		4.8
1,2-Dibromo-3-Chloropropane		ND		48
Ethylene Dibromide		ND		4.8
Dibromomethane		ND		9.7
Dichlorodifluoromethane		ND		9.7
1,1-Dichloroethane		ND		4.8
1,2-Dichloroethane		ND		4.8
1,1-Dichloroethene		ND		4.8
cis-1,2-Dichloroethene		ND		4.8
trans-1,2-Dichloroethene		ND		4.8
1,2-Dichloropropane		ND		4.8
cis-1,3-Dichloropropene		ND		4.8
trans-1,3-Dichloropropene		ND		4.8
Ethylbenzene		ND		4.8
Hexachlorobutadiene		ND		4.8
2-Hexanone		ND		48
Isopropylbenzene		ND		4.8
4-Isopropyltoluene		ND		4.8
Methylene Chloride		ND		9.7

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-1@7.5**

Lab Sample ID: 720-12037-3 | Date Sampled: 12/04/2007 0902
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507011.D
Dilution: 1.0 | Initial Weight/Volume: 5.16 g
Date Analyzed: 12/05/2007 1547 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		48
Naphthalene		ND		9.7
N-Propylbenzene		ND		4.8
Styrene		ND		4.8
1,1,1,2-Tetrachloroethane		ND		4.8
1,1,2,2-Tetrachloroethane		ND		4.8
Tetrachloroethene		ND		4.8
Toluene		ND		4.8
1,2,3-Trichlorobenzene		ND		4.8
1,2,4-Trichlorobenzene		ND		4.8
1,1,1-Trichloroethane		ND		4.8
1,1,2-Trichloroethane		ND		4.8
Trichloroethene		ND		4.8
Trichlorofluoromethane		ND		4.8
1,2,3-Trichloropropane		ND		4.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.8
1,2,4-Trimethylbenzene		ND		4.8
1,3,5-Trimethylbenzene		ND		4.8
Vinyl acetate		ND		48
Vinyl chloride		ND		4.8
Xylenes, Total		ND		9.7
2,2-Dichloropropane		ND		4.8

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	91	50 - 138
1,2-Dichloroethane-d4 (Surr)	99	66 - 127
Toluene-d8 (Surr)	95	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-2@0**

Lab Sample ID: 720-12037-4 | Date Sampled: 12/04/2007 0924
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507012.D
Dilution: 1.0 | Initial Weight/Volume: 5.16 g
Date Analyzed: 12/05/2007 1613 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.8
Acetone		ND		48
Benzene		ND		4.8
Dichlorobromomethane		ND		4.8
Bromobenzene		ND		4.8
Chlorobromomethane		ND		19
Bromoform		ND		4.8
Bromomethane		ND		9.7
2-Butanone (MEK)		ND		48
n-Butylbenzene		ND		4.8
sec-Butylbenzene		ND		4.8
tert-Butylbenzene		ND		4.8
Carbon disulfide		ND		4.8
Carbon tetrachloride		ND		4.8
Chlorobenzene		ND		4.8
Chloroethane		ND		9.7
Chloroform		ND		4.8
Chloromethane		ND		9.7
2-Chlorotoluene		ND		4.8
4-Chlorotoluene		ND		4.8
Chlorodibromomethane		ND		4.8
1,2-Dichlorobenzene		ND		4.8
1,3-Dichlorobenzene		ND		4.8
1,4-Dichlorobenzene		ND		4.8
1,3-Dichloropropane		ND		4.8
1,1-Dichloropropene		ND		4.8
1,2-Dibromo-3-Chloropropane		ND		48
Ethylene Dibromide		ND		4.8
Dibromomethane		ND		9.7
Dichlorodifluoromethane		ND		9.7
1,1-Dichloroethane		ND		4.8
1,2-Dichloroethane		ND		4.8
1,1-Dichloroethene		ND		4.8
cis-1,2-Dichloroethene		ND		4.8
trans-1,2-Dichloroethene		ND		4.8
1,2-Dichloropropane		ND		4.8
cis-1,3-Dichloropropene		ND		4.8
trans-1,3-Dichloropropene		ND		4.8
Ethylbenzene		ND		4.8
Hexachlorobutadiene		ND		4.8
2-Hexanone		ND		48
Isopropylbenzene		ND		4.8
4-Isopropyltoluene		ND		4.8
Methylene Chloride		ND		9.7

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-2@0**

Lab Sample ID: 720-12037-4 | Date Sampled: 12/04/2007 0924
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-29323	Instrument ID: Agilent 75MSD
Preparation:	5030B	Prep Batch: 720-29261	Lab File ID: 120507012.D
Dilution:	1.0		Initial Weight/Volume: 5.16 g
Date Analyzed:	12/05/2007 1613		Final Weight/Volume: 10 mL
Date Prepared:	12/05/2007 1130		

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		48
Naphthalene		ND		9.7
N-Propylbenzene		ND		4.8
Styrene		ND		4.8
1,1,1,2-Tetrachloroethane		ND		4.8
1,1,2,2-Tetrachloroethane		ND		4.8
Tetrachloroethene		ND		4.8
Toluene		ND		4.8
1,2,3-Trichlorobenzene		ND		4.8
1,2,4-Trichlorobenzene		ND		4.8
1,1,1-Trichloroethane		ND		4.8
1,1,2-Trichloroethane		ND		4.8
Trichloroethene		ND		4.8
Trichlorofluoromethane		ND		4.8
1,2,3-Trichloropropane		ND		4.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.8
1,2,4-Trimethylbenzene		ND		4.8
1,3,5-Trimethylbenzene		ND		4.8
Vinyl acetate		ND		48
Vinyl chloride		ND		4.8
Xylenes, Total		ND		9.7
2,2-Dichloropropane		ND		4.8

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	50 - 138
1,2-Dichloroethane-d4 (Surr)	98	66 - 127
Toluene-d8 (Surr)	94	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-2@2**

Lab Sample ID: 720-12037-5 | Date Sampled: 12/04/2007 0929
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507013.D
Dilution: 1.0 | Initial Weight/Volume: 5.02 g
Date Analyzed: 12/05/2007 1638 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Acetone		ND		50
Benzene		ND		5.0
Dichlorobromomethane		ND		5.0
Bromobenzene		ND		5.0
Chlorobromomethane		ND		20
Bromoform		ND		5.0
Bromomethane		ND		10
2-Butanone (MEK)		ND		50
n-Butylbenzene		ND		5.0
sec-Butylbenzene		ND		5.0
tert-Butylbenzene		ND		5.0
Carbon disulfide		ND		5.0
Carbon tetrachloride		ND		5.0
Chlorobenzene		ND		5.0
Chloroethane		ND		10
Chloroform		ND		5.0
Chloromethane		ND		10
2-Chlorotoluene		ND		5.0
4-Chlorotoluene		ND		5.0
Chlorodibromomethane		ND		5.0
1,2-Dichlorobenzene		ND		5.0
1,3-Dichlorobenzene		ND		5.0
1,4-Dichlorobenzene		ND		5.0
1,3-Dichloropropane		ND		5.0
1,1-Dichloropropene		ND		5.0
1,2-Dibromo-3-Chloropropane		ND		50
Ethylene Dibromide		ND		5.0
Dibromomethane		ND		10
Dichlorodifluoromethane		ND		10
1,1-Dichloroethane		ND		5.0
1,2-Dichloroethane		ND		5.0
1,1-Dichloroethene		ND		5.0
cis-1,2-Dichloroethene		ND		5.0
trans-1,2-Dichloroethene		ND		5.0
1,2-Dichloropropane		ND		5.0
cis-1,3-Dichloropropene		ND		5.0
trans-1,3-Dichloropropene		ND		5.0
Ethylbenzene		ND		5.0
Hexachlorobutadiene		ND		5.0
2-Hexanone		ND		50
Isopropylbenzene		ND		5.0
4-Isopropyltoluene		ND		5.0
Methylene Chloride		ND		10

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-2@2**

Lab Sample ID: 720-12037-5 | Date Sampled: 12/04/2007 0929
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507013.D
Dilution: 1.0 | Initial Weight/Volume: 5.02 g
Date Analyzed: 12/05/2007 1638 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		50
Naphthalene		ND		10
N-Propylbenzene		ND		5.0
Styrene		ND		5.0
1,1,1,2-Tetrachloroethane		ND		5.0
1,1,2,2-Tetrachloroethane		ND		5.0
Tetrachloroethene		ND		5.0
Toluene		ND		5.0
1,2,3-Trichlorobenzene		ND		5.0
1,2,4-Trichlorobenzene		ND		5.0
1,1,1-Trichloroethane		ND		5.0
1,1,2-Trichloroethane		ND		5.0
Trichloroethene		ND		5.0
Trichlorofluoromethane		ND		5.0
1,2,3-Trichloropropane		ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.0
1,2,4-Trimethylbenzene		ND		5.0
1,3,5-Trimethylbenzene		ND		5.0
Vinyl acetate		ND		50
Vinyl chloride		ND		5.0
Xylenes, Total		ND		10
2,2-Dichloropropane		ND		5.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	86	50 - 138
1,2-Dichloroethane-d4 (Surr)	98	66 - 127
Toluene-d8 (Surr)	94	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-2@7.5**

Lab Sample ID: 720-12037-6 | Date Sampled: 12/04/2007 0935
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507014.D
Dilution: 1.0 | Initial Weight/Volume: 5.14 g
Date Analyzed: 12/05/2007 1703 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Acetone		ND		49
Benzene		ND		4.9
Dichlorobromomethane		ND		4.9
Bromobenzene		ND		4.9
Chlorobromomethane		ND		19
Bromoform		ND		4.9
Bromomethane		ND		9.7
2-Butanone (MEK)		ND		49
n-Butylbenzene		ND		4.9
sec-Butylbenzene		ND		4.9
tert-Butylbenzene		ND		4.9
Carbon disulfide		ND		4.9
Carbon tetrachloride		ND		4.9
Chlorobenzene		ND		4.9
Chloroethane		ND		9.7
Chloroform		ND		4.9
Chloromethane		ND		9.7
2-Chlorotoluene		ND		4.9
4-Chlorotoluene		ND		4.9
Chlorodibromomethane		ND		4.9
1,2-Dichlorobenzene		ND		4.9
1,3-Dichlorobenzene		ND		4.9
1,4-Dichlorobenzene		ND		4.9
1,3-Dichloropropane		ND		4.9
1,1-Dichloropropene		ND		4.9
1,2-Dibromo-3-Chloropropane		ND		49
Ethylene Dibromide		ND		4.9
Dibromomethane		ND		9.7
Dichlorodifluoromethane		ND		9.7
1,1-Dichloroethane		ND		4.9
1,2-Dichloroethane		ND		4.9
1,1-Dichloroethene		ND		4.9
cis-1,2-Dichloroethene		ND		4.9
trans-1,2-Dichloroethene		ND		4.9
1,2-Dichloropropane		ND		4.9
cis-1,3-Dichloropropene		ND		4.9
trans-1,3-Dichloropropene		ND		4.9
Ethylbenzene		ND		4.9
Hexachlorobutadiene		ND		4.9
2-Hexanone		ND		49
Isopropylbenzene		ND		4.9
4-Isopropyltoluene		ND		4.9
Methylene Chloride		ND		9.7

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-2@7.5**

Lab Sample ID: 720-12037-6 | Date Sampled: 12/04/2007 0935
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507014.D
Dilution: 1.0 | Initial Weight/Volume: 5.14 g
Date Analyzed: 12/05/2007 1703 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		49
Naphthalene		ND		9.7
N-Propylbenzene		ND		4.9
Styrene		ND		4.9
1,1,1,2-Tetrachloroethane		ND		4.9
1,1,2,2-Tetrachloroethane		ND		4.9
Tetrachloroethene		ND		4.9
Toluene		ND		4.9
1,2,3-Trichlorobenzene		ND		4.9
1,2,4-Trichlorobenzene		ND		4.9
1,1,1-Trichloroethane		ND		4.9
1,1,2-Trichloroethane		ND		4.9
Trichloroethene		ND		4.9
Trichlorofluoromethane		ND		4.9
1,2,3-Trichloropropane		ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.9
1,2,4-Trimethylbenzene		ND		4.9
1,3,5-Trimethylbenzene		ND		4.9
Vinyl acetate		ND		49
Vinyl chloride		ND		4.9
Xylenes, Total		ND		9.7
2,2-Dichloropropane		ND		4.9

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	50 - 138
1,2-Dichloroethane-d4 (Surr)	102	66 - 127
Toluene-d8 (Surr)	100	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-3@0**

Lab Sample ID: 720-12037-7 | Date Sampled: 12/04/2007 0959
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-29323		Instrument ID:	Agilent 75MSD
Preparation:	5030B	Prep Batch: 720-29261		Lab File ID:	120507015.D
Dilution:	1.0			Initial Weight/Volume:	5.01 g
Date Analyzed:	12/05/2007 1728			Final Weight/Volume:	10 mL
Date Prepared:	12/05/2007 1130				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Acetone		ND		50
Benzene		ND		5.0
Dichlorobromomethane		ND		5.0
Bromobenzene		ND		5.0
Chlorobromomethane		ND		20
Bromoform		ND		5.0
Bromomethane		ND		10
2-Butanone (MEK)		ND		50
n-Butylbenzene		ND		5.0
sec-Butylbenzene		ND		5.0
tert-Butylbenzene		ND		5.0
Carbon disulfide		ND		5.0
Carbon tetrachloride		ND		5.0
Chlorobenzene		ND		5.0
Chloroethane		ND		10
Chloroform		ND		5.0
Chloromethane		ND		10
2-Chlorotoluene		ND		5.0
4-Chlorotoluene		ND		5.0
Chlorodibromomethane		ND		5.0
1,2-Dichlorobenzene		ND		5.0
1,3-Dichlorobenzene		ND		5.0
1,4-Dichlorobenzene		ND		5.0
1,3-Dichloropropane		ND		5.0
1,1-Dichloropropene		ND		5.0
1,2-Dibromo-3-Chloropropane		ND		50
Ethylene Dibromide		ND		5.0
Dibromomethane		ND		10
Dichlorodifluoromethane		ND		10
1,1-Dichloroethane		ND		5.0
1,2-Dichloroethane		ND		5.0
1,1-Dichloroethene		ND		5.0
cis-1,2-Dichloroethene		ND		5.0
trans-1,2-Dichloroethene		ND		5.0
1,2-Dichloropropane		ND		5.0
cis-1,3-Dichloropropene		ND		5.0
trans-1,3-Dichloropropene		ND		5.0
Ethylbenzene		ND		5.0
Hexachlorobutadiene		ND		5.0
2-Hexanone		ND		50
Isopropylbenzene		ND		5.0
4-Isopropyltoluene		ND		5.0
Methylene Chloride		ND		10

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-3@0**

Lab Sample ID: 720-12037-7 | Date Sampled: 12/04/2007 0959
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-29323	Instrument ID: Agilent 75MSD
Preparation:	5030B	Prep Batch: 720-29261	Lab File ID: 120507015.D
Dilution:	1.0		Initial Weight/Volume: 5.01 g
Date Analyzed:	12/05/2007 1728		Final Weight/Volume: 10 mL
Date Prepared:	12/05/2007 1130		

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		50
Naphthalene		ND		10
N-Propylbenzene		ND		5.0
Styrene		ND		5.0
1,1,1,2-Tetrachloroethane		ND		5.0
1,1,2,2-Tetrachloroethane		ND		5.0
Tetrachloroethene		ND		5.0
Toluene		ND		5.0
1,2,3-Trichlorobenzene		ND		5.0
1,2,4-Trichlorobenzene		ND		5.0
1,1,1-Trichloroethane		ND		5.0
1,1,2-Trichloroethane		ND		5.0
Trichloroethene		ND		5.0
Trichlorofluoromethane		ND		5.0
1,2,3-Trichloropropane		ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.0
1,2,4-Trimethylbenzene		ND		5.0
1,3,5-Trimethylbenzene		ND		5.0
Vinyl acetate		ND		50
Vinyl chloride		ND		5.0
Xylenes, Total		ND		10
2,2-Dichloropropane		ND		5.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	78	50 - 138
1,2-Dichloroethane-d4 (Surr)	96	66 - 127
Toluene-d8 (Surr)	86	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-3@2**

Lab Sample ID: 720-12037-8 | Date Sampled: 12/04/2007 1002
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507016.D
Dilution: 1.0 | Initial Weight/Volume: 5.21 g
Date Analyzed: 12/05/2007 1753 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.8
Acetone		ND		48
Benzene		ND		4.8
Dichlorobromomethane		ND		4.8
Bromobenzene		ND		4.8
Chlorobromomethane		ND		19
Bromoform		ND		4.8
Bromomethane		ND		9.6
2-Butanone (MEK)		ND		48
n-Butylbenzene		ND		4.8
sec-Butylbenzene		ND		4.8
tert-Butylbenzene		ND		4.8
Carbon disulfide		ND		4.8
Carbon tetrachloride		ND		4.8
Chlorobenzene		ND		4.8
Chloroethane		ND		9.6
Chloroform		ND		4.8
Chloromethane		ND		9.6
2-Chlorotoluene		ND		4.8
4-Chlorotoluene		ND		4.8
Chlorodibromomethane		ND		4.8
1,2-Dichlorobenzene		ND		4.8
1,3-Dichlorobenzene		ND		4.8
1,4-Dichlorobenzene		ND		4.8
1,3-Dichloropropane		ND		4.8
1,1-Dichloropropene		ND		4.8
1,2-Dibromo-3-Chloropropane		ND		48
Ethylene Dibromide		ND		4.8
Dibromomethane		ND		9.6
Dichlorodifluoromethane		ND		9.6
1,1-Dichloroethane		ND		4.8
1,2-Dichloroethane		ND		4.8
1,1-Dichloroethene		ND		4.8
cis-1,2-Dichloroethene		ND		4.8
trans-1,2-Dichloroethene		ND		4.8
1,2-Dichloropropane		ND		4.8
cis-1,3-Dichloropropene		ND		4.8
trans-1,3-Dichloropropene		ND		4.8
Ethylbenzene		ND		4.8
Hexachlorobutadiene		ND		4.8
2-Hexanone		ND		48
Isopropylbenzene		ND		4.8
4-Isopropyltoluene		ND		4.8
Methylene Chloride		ND		9.6

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-3@2**

Lab Sample ID: 720-12037-8 | Date Sampled: 12/04/2007 1002
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507016.D
Dilution: 1.0 | Initial Weight/Volume: 5.21 g
Date Analyzed: 12/05/2007 1753 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		48
Naphthalene		ND		9.6
N-Propylbenzene		ND		4.8
Styrene		ND		4.8
1,1,1,2-Tetrachloroethane		ND		4.8
1,1,2,2-Tetrachloroethane		ND		4.8
Tetrachloroethene		ND		4.8
Toluene		ND		4.8
1,2,3-Trichlorobenzene		ND		4.8
1,2,4-Trichlorobenzene		ND		4.8
1,1,1-Trichloroethane		ND		4.8
1,1,2-Trichloroethane		ND		4.8
Trichloroethene		ND		4.8
Trichlorofluoromethane		ND		4.8
1,2,3-Trichloropropane		ND		4.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.8
1,2,4-Trimethylbenzene		ND		4.8
1,3,5-Trimethylbenzene		ND		4.8
Vinyl acetate		ND		48
Vinyl chloride		ND		4.8
Xylenes, Total		ND		9.6
2,2-Dichloropropane		ND		4.8

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	87	50 - 138
1,2-Dichloroethane-d4 (Surr)	97	66 - 127
Toluene-d8 (Surr)	92	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-3@7.5**

Lab Sample ID: 720-12037-9 | Date Sampled: 12/04/2007 1007
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507017.D
Dilution: 1.0 | Initial Weight/Volume: 5.15 g
Date Analyzed: 12/05/2007 1818 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Acetone		ND		49
Benzene		ND		4.9
Dichlorobromomethane		ND		4.9
Bromobenzene		ND		4.9
Chlorobromomethane		ND		19
Bromoform		ND		4.9
Bromomethane		ND		9.7
2-Butanone (MEK)		ND		49
n-Butylbenzene		ND		4.9
sec-Butylbenzene		ND		4.9
tert-Butylbenzene		ND		4.9
Carbon disulfide		ND		4.9
Carbon tetrachloride		ND		4.9
Chlorobenzene		ND		4.9
Chloroethane		ND		9.7
Chloroform		ND		4.9
Chloromethane		ND		9.7
2-Chlorotoluene		ND		4.9
4-Chlorotoluene		ND		4.9
Chlorodibromomethane		ND		4.9
1,2-Dichlorobenzene		ND		4.9
1,3-Dichlorobenzene		ND		4.9
1,4-Dichlorobenzene		ND		4.9
1,3-Dichloropropane		ND		4.9
1,1-Dichloropropene		ND		4.9
1,2-Dibromo-3-Chloropropane		ND		49
Ethylene Dibromide		ND		4.9
Dibromomethane		ND		9.7
Dichlorodifluoromethane		ND		9.7
1,1-Dichloroethane		ND		4.9
1,2-Dichloroethane		ND		4.9
1,1-Dichloroethene		ND		4.9
cis-1,2-Dichloroethene		ND		4.9
trans-1,2-Dichloroethene		ND		4.9
1,2-Dichloropropane		ND		4.9
cis-1,3-Dichloropropene		ND		4.9
trans-1,3-Dichloropropene		ND		4.9
Ethylbenzene		ND		4.9
Hexachlorobutadiene		ND		4.9
2-Hexanone		ND		49
Isopropylbenzene		ND		4.9
4-Isopropyltoluene		ND		4.9
Methylene Chloride		ND		9.7

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-3@7.5**

Lab Sample ID: 720-12037-9 | Date Sampled: 12/04/2007 1007
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507017.D
Dilution: 1.0 | Initial Weight/Volume: 5.15 g
Date Analyzed: 12/05/2007 1818 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		49
Naphthalene		ND		9.7
N-Propylbenzene		ND		4.9
Styrene		ND		4.9
1,1,1,2-Tetrachloroethane		ND		4.9
1,1,2,2-Tetrachloroethane		ND		4.9
Tetrachloroethene		ND		4.9
Toluene		ND		4.9
1,2,3-Trichlorobenzene		ND		4.9
1,2,4-Trichlorobenzene		ND		4.9
1,1,1-Trichloroethane		ND		4.9
1,1,2-Trichloroethane		ND		4.9
Trichloroethene		ND		4.9
Trichlorofluoromethane		ND		4.9
1,2,3-Trichloropropane		ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.9
1,2,4-Trimethylbenzene		ND		4.9
1,3,5-Trimethylbenzene		ND		4.9
Vinyl acetate		ND		49
Vinyl chloride		ND		4.9
Xylenes, Total		ND		9.7
2,2-Dichloropropane		ND		4.9

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	80	50 - 138
1,2-Dichloroethane-d4 (Surr)	95	66 - 127
Toluene-d8 (Surr)	92	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-4@0**

Lab Sample ID: 720-12037-10 | Date Sampled: 12/04/2007 1035
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29355 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29315 | Lab File ID: 120607006.D
Dilution: 1.0 | Initial Weight/Volume: 5.01 g
Date Analyzed: 12/06/2007 1259 | Final Weight/Volume: 10 mL
Date Prepared: 12/06/2007 1100

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Acetone		84		50
Benzene		ND		5.0
Dichlorobromomethane		ND		5.0
Bromobenzene		ND		5.0
Chlorobromomethane		ND		20
Bromoform		ND		5.0
Bromomethane		ND		10
2-Butanone (MEK)		ND		50
n-Butylbenzene		ND		5.0
sec-Butylbenzene		ND		5.0
tert-Butylbenzene		ND		5.0
Carbon disulfide		ND		5.0
Carbon tetrachloride		ND		5.0
Chlorobenzene		ND		5.0
Chloroethane		ND		10
Chloroform		ND		5.0
Chloromethane		ND		10
2-Chlorotoluene		ND		5.0
4-Chlorotoluene		ND		5.0
Chlorodibromomethane		ND		5.0
1,2-Dichlorobenzene		ND		5.0
1,3-Dichlorobenzene		ND		5.0
1,4-Dichlorobenzene		ND		5.0
1,3-Dichloropropane		ND		5.0
1,1-Dichloropropene		ND		5.0
1,2-Dibromo-3-Chloropropane		ND		50
Ethylene Dibromide		ND		5.0
Dibromomethane		ND		10
Dichlorodifluoromethane		ND		10
1,1-Dichloroethane		ND		5.0
1,2-Dichloroethane		ND		5.0
1,1-Dichloroethene		ND		5.0
cis-1,2-Dichloroethene		ND		5.0
trans-1,2-Dichloroethene		ND		5.0
1,2-Dichloropropane		ND		5.0
cis-1,3-Dichloropropene		ND		5.0
trans-1,3-Dichloropropene		ND		5.0
Ethylbenzene		ND		5.0
Hexachlorobutadiene		ND		5.0
2-Hexanone		ND		50
Isopropylbenzene		ND		5.0
4-Isopropyltoluene		ND		5.0
Methylene Chloride		ND		10

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-4@0**

Lab Sample ID: 720-12037-10 | Date Sampled: 12/04/2007 1035
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29355 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29315 | Lab File ID: 120607006.D
Dilution: 1.0 | Initial Weight/Volume: 5.01 g
Date Analyzed: 12/06/2007 1259 | Final Weight/Volume: 10 mL
Date Prepared: 12/06/2007 1100

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		50
Naphthalene		ND		10
N-Propylbenzene		ND		5.0
Styrene		ND		5.0
1,1,1,2-Tetrachloroethane		ND		5.0
1,1,2,2-Tetrachloroethane		ND		5.0
Tetrachloroethene		ND		5.0
Toluene		ND		5.0
1,2,3-Trichlorobenzene		ND		5.0
1,2,4-Trichlorobenzene		ND		5.0
1,1,1-Trichloroethane		ND		5.0
1,1,2-Trichloroethane		ND		5.0
Trichloroethene		ND		5.0
Trichlorofluoromethane		ND		5.0
1,2,3-Trichloropropane		ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.0
1,2,4-Trimethylbenzene		ND		5.0
1,3,5-Trimethylbenzene		ND		5.0
Vinyl acetate		ND		50
Vinyl chloride		ND		5.0
Xylenes, Total		ND		10
2,2-Dichloropropane		ND		5.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	50 - 138
1,2-Dichloroethane-d4 (Surr)	96	66 - 127
Toluene-d8 (Surr)	91	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-4@2**

Lab Sample ID: 720-12037-11 | Date Sampled: 12/04/2007 1039
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507019.D
Dilution: 1.0 | Initial Weight/Volume: 5.21 g
Date Analyzed: 12/05/2007 1908 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.8
Acetone		ND		48
Benzene		ND		4.8
Dichlorobromomethane		ND		4.8
Bromobenzene		ND		4.8
Chlorobromomethane		ND		19
Bromoform		ND		4.8
Bromomethane		ND		9.6
2-Butanone (MEK)		ND		48
n-Butylbenzene		ND		4.8
sec-Butylbenzene		ND		4.8
tert-Butylbenzene		ND		4.8
Carbon disulfide		ND		4.8
Carbon tetrachloride		ND		4.8
Chlorobenzene		ND		4.8
Chloroethane		ND		9.6
Chloroform		ND		4.8
Chloromethane		ND		9.6
2-Chlorotoluene		ND		4.8
4-Chlorotoluene		ND		4.8
Chlorodibromomethane		ND		4.8
1,2-Dichlorobenzene		ND		4.8
1,3-Dichlorobenzene		ND		4.8
1,4-Dichlorobenzene		ND		4.8
1,3-Dichloropropane		ND		4.8
1,1-Dichloropropene		ND		4.8
1,2-Dibromo-3-Chloropropane		ND		48
Ethylene Dibromide		ND		4.8
Dibromomethane		ND		9.6
Dichlorodifluoromethane		ND		9.6
1,1-Dichloroethane		ND		4.8
1,2-Dichloroethane		ND		4.8
1,1-Dichloroethene		ND		4.8
cis-1,2-Dichloroethene		ND		4.8
trans-1,2-Dichloroethene		ND		4.8
1,2-Dichloropropane		ND		4.8
cis-1,3-Dichloropropene		ND		4.8
trans-1,3-Dichloropropene		ND		4.8
Ethylbenzene		ND		4.8
Hexachlorobutadiene		ND		4.8
2-Hexanone		ND		48
Isopropylbenzene		ND		4.8
4-Isopropyltoluene		ND		4.8
Methylene Chloride		ND		9.6

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-4@2**

Lab Sample ID: 720-12037-11 | Date Sampled: 12/04/2007 1039
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507019.D
Dilution: 1.0 | Initial Weight/Volume: 5.21 g
Date Analyzed: 12/05/2007 1908 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		48
Naphthalene		ND		9.6
N-Propylbenzene		ND		4.8
Styrene		ND		4.8
1,1,1,2-Tetrachloroethane		ND		4.8
1,1,2,2-Tetrachloroethane		ND		4.8
Tetrachloroethene		ND		4.8
Toluene		ND		4.8
1,2,3-Trichlorobenzene		ND		4.8
1,2,4-Trichlorobenzene		ND		4.8
1,1,1-Trichloroethane		ND		4.8
1,1,2-Trichloroethane		ND		4.8
Trichloroethene		ND		4.8
Trichlorofluoromethane		ND		4.8
1,2,3-Trichloropropane		ND		4.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.8
1,2,4-Trimethylbenzene		ND		4.8
1,3,5-Trimethylbenzene		ND		4.8
Vinyl acetate		ND		48
Vinyl chloride		ND		4.8
Xylenes, Total		ND		9.6
2,2-Dichloropropane		ND		4.8

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	89	50 - 138
1,2-Dichloroethane-d4 (Surr)	96	66 - 127
Toluene-d8 (Surr)	90	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-4@7.5**

Lab Sample ID: 720-12037-12 | Date Sampled: 12/04/2007 1045
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507020.D
Dilution: 1.0 | Initial Weight/Volume: 5.13 g
Date Analyzed: 12/05/2007 1933 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Acetone		ND		49
Benzene		ND		4.9
Dichlorobromomethane		ND		4.9
Bromobenzene		ND		4.9
Chlorobromomethane		ND		19
Bromoform		ND		4.9
Bromomethane		ND		9.7
2-Butanone (MEK)		ND		49
n-Butylbenzene		ND		4.9
sec-Butylbenzene		ND		4.9
tert-Butylbenzene		ND		4.9
Carbon disulfide		ND		4.9
Carbon tetrachloride		ND		4.9
Chlorobenzene		ND		4.9
Chloroethane		ND		9.7
Chloroform		ND		4.9
Chloromethane		ND		9.7
2-Chlorotoluene		ND		4.9
4-Chlorotoluene		ND		4.9
Chlorodibromomethane		ND		4.9
1,2-Dichlorobenzene		ND		4.9
1,3-Dichlorobenzene		ND		4.9
1,4-Dichlorobenzene		ND		4.9
1,3-Dichloropropane		ND		4.9
1,1-Dichloropropene		ND		4.9
1,2-Dibromo-3-Chloropropane		ND		49
Ethylene Dibromide		ND		4.9
Dibromomethane		ND		9.7
Dichlorodifluoromethane		ND		9.7
1,1-Dichloroethane		ND		4.9
1,2-Dichloroethane		ND		4.9
1,1-Dichloroethene		ND		4.9
cis-1,2-Dichloroethene		ND		4.9
trans-1,2-Dichloroethene		ND		4.9
1,2-Dichloropropane		ND		4.9
cis-1,3-Dichloropropene		ND		4.9
trans-1,3-Dichloropropene		ND		4.9
Ethylbenzene		ND		4.9
Hexachlorobutadiene		ND		4.9
2-Hexanone		ND		49
Isopropylbenzene		ND		4.9
4-Isopropyltoluene		ND		4.9
Methylene Chloride		ND		9.7

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-4@7.5**

Lab Sample ID: 720-12037-12 | Date Sampled: 12/04/2007 1045
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507020.D
Dilution: 1.0 | Initial Weight/Volume: 5.13 g
Date Analyzed: 12/05/2007 1933 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		49
Naphthalene		ND		9.7
N-Propylbenzene		ND		4.9
Styrene		ND		4.9
1,1,1,2-Tetrachloroethane		ND		4.9
1,1,2,2-Tetrachloroethane		ND		4.9
Tetrachloroethene		ND		4.9
Toluene		ND		4.9
1,2,3-Trichlorobenzene		ND		4.9
1,2,4-Trichlorobenzene		ND		4.9
1,1,1-Trichloroethane		ND		4.9
1,1,2-Trichloroethane		ND		4.9
Trichloroethene		ND		4.9
Trichlorofluoromethane		ND		4.9
1,2,3-Trichloropropane		ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.9
1,2,4-Trimethylbenzene		ND		4.9
1,3,5-Trimethylbenzene		ND		4.9
Vinyl acetate		ND		49
Vinyl chloride		ND		4.9
Xylenes, Total		ND		9.7
2,2-Dichloropropane		ND		4.9

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	89	50 - 138
1,2-Dichloroethane-d4 (Surr)	97	66 - 127
Toluene-d8 (Surr)	93	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-5@0**

Lab Sample ID: 720-12037-13 | Date Sampled: 12/04/2007 1118
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-29323		Instrument ID:	Agilent 75MSD
Preparation:	5030B	Prep Batch: 720-29261		Lab File ID:	120507021.D
Dilution:	1.0			Initial Weight/Volume:	5.09 g
Date Analyzed:	12/05/2007 1959			Final Weight/Volume:	10 mL
Date Prepared:	12/05/2007 1130				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Acetone		ND		49
Benzene		ND		4.9
Dichlorobromomethane		ND		4.9
Bromobenzene		ND		4.9
Chlorobromomethane		ND		20
Bromoform		ND		4.9
Bromomethane		ND		9.8
2-Butanone (MEK)		ND		49
n-Butylbenzene		ND		4.9
sec-Butylbenzene		ND		4.9
tert-Butylbenzene		ND		4.9
Carbon disulfide		ND		4.9
Carbon tetrachloride		ND		4.9
Chlorobenzene		ND		4.9
Chloroethane		ND		9.8
Chloroform		ND		4.9
Chloromethane		ND		9.8
2-Chlorotoluene		ND		4.9
4-Chlorotoluene		ND		4.9
Chlorodibromomethane		ND		4.9
1,2-Dichlorobenzene		ND		4.9
1,3-Dichlorobenzene		ND		4.9
1,4-Dichlorobenzene		ND		4.9
1,3-Dichloropropane		ND		4.9
1,1-Dichloropropene		ND		4.9
1,2-Dibromo-3-Chloropropane		ND		49
Ethylene Dibromide		ND		4.9
Dibromomethane		ND		9.8
Dichlorodifluoromethane		ND		9.8
1,1-Dichloroethane		ND		4.9
1,2-Dichloroethane		ND		4.9
1,1-Dichloroethene		ND		4.9
cis-1,2-Dichloroethene		ND		4.9
trans-1,2-Dichloroethene		ND		4.9
1,2-Dichloropropane		ND		4.9
cis-1,3-Dichloropropene		ND		4.9
trans-1,3-Dichloropropene		ND		4.9
Ethylbenzene		ND		4.9
Hexachlorobutadiene		ND		4.9
2-Hexanone		ND		49
Isopropylbenzene		ND		4.9
4-Isopropyltoluene		ND		4.9
Methylene Chloride		ND		9.8

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-5@0**

Lab Sample ID: 720-12037-13 | Date Sampled: 12/04/2007 1118
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507021.D
Dilution: 1.0 | Initial Weight/Volume: 5.09 g
Date Analyzed: 12/05/2007 1959 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		49
Naphthalene		ND		9.8
N-Propylbenzene		ND		4.9
Styrene		ND		4.9
1,1,1,2-Tetrachloroethane		ND		4.9
1,1,2,2-Tetrachloroethane		ND		4.9
Tetrachloroethene		ND		4.9
Toluene		ND		4.9
1,2,3-Trichlorobenzene		ND		4.9
1,2,4-Trichlorobenzene		ND		4.9
1,1,1-Trichloroethane		ND		4.9
1,1,2-Trichloroethane		ND		4.9
Trichloroethene		ND		4.9
Trichlorofluoromethane		ND		4.9
1,2,3-Trichloropropane		ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.9
1,2,4-Trimethylbenzene		ND		4.9
1,3,5-Trimethylbenzene		ND		4.9
Vinyl acetate		ND		49
Vinyl chloride		ND		4.9
Xylenes, Total		ND		9.8
2,2-Dichloropropane		ND		4.9

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	81	50 - 138
1,2-Dichloroethane-d4 (Surr)	98	66 - 127
Toluene-d8 (Surr)	90	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-5@2**

Lab Sample ID: 720-12037-14 | Date Sampled: 12/04/2007 1121
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507022.D
Dilution: 1.0 | Initial Weight/Volume: 5.09 g
Date Analyzed: 12/05/2007 2024 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Acetone		ND		49
Benzene		ND		4.9
Dichlorobromomethane		ND		4.9
Bromobenzene		ND		4.9
Chlorobromomethane		ND		20
Bromoform		ND		4.9
Bromomethane		ND		9.8
2-Butanone (MEK)		ND		49
n-Butylbenzene		ND		4.9
sec-Butylbenzene		ND		4.9
tert-Butylbenzene		ND		4.9
Carbon disulfide		ND		4.9
Carbon tetrachloride		ND		4.9
Chlorobenzene		ND		4.9
Chloroethane		ND		9.8
Chloroform		ND		4.9
Chloromethane		ND		9.8
2-Chlorotoluene		ND		4.9
4-Chlorotoluene		ND		4.9
Chlorodibromomethane		ND		4.9
1,2-Dichlorobenzene		ND		4.9
1,3-Dichlorobenzene		ND		4.9
1,4-Dichlorobenzene		ND		4.9
1,3-Dichloropropane		ND		4.9
1,1-Dichloropropene		ND		4.9
1,2-Dibromo-3-Chloropropane		ND		49
Ethylene Dibromide		ND		4.9
Dibromomethane		ND		9.8
Dichlorodifluoromethane		ND		9.8
1,1-Dichloroethane		ND		4.9
1,2-Dichloroethane		ND		4.9
1,1-Dichloroethene		ND		4.9
cis-1,2-Dichloroethene		ND		4.9
trans-1,2-Dichloroethene		ND		4.9
1,2-Dichloropropane		ND		4.9
cis-1,3-Dichloropropene		ND		4.9
trans-1,3-Dichloropropene		ND		4.9
Ethylbenzene		ND		4.9
Hexachlorobutadiene		ND		4.9
2-Hexanone		ND		49
Isopropylbenzene		ND		4.9
4-Isopropyltoluene		ND		4.9
Methylene Chloride		ND		9.8

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-5@2**

Lab Sample ID: 720-12037-14 | Date Sampled: 12/04/2007 1121
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507022.D
Dilution: 1.0 | Initial Weight/Volume: 5.09 g
Date Analyzed: 12/05/2007 2024 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		49
Naphthalene		ND		9.8
N-Propylbenzene		ND		4.9
Styrene		ND		4.9
1,1,1,2-Tetrachloroethane		ND		4.9
1,1,2,2-Tetrachloroethane		ND		4.9
Tetrachloroethene		ND		4.9
Toluene		ND		4.9
1,2,3-Trichlorobenzene		ND		4.9
1,2,4-Trichlorobenzene		ND		4.9
1,1,1-Trichloroethane		ND		4.9
1,1,2-Trichloroethane		ND		4.9
Trichloroethene		ND		4.9
Trichlorofluoromethane		ND		4.9
1,2,3-Trichloropropane		ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.9
1,2,4-Trimethylbenzene		ND		4.9
1,3,5-Trimethylbenzene		ND		4.9
Vinyl acetate		ND		49
Vinyl chloride		ND		4.9
Xylenes, Total		ND		9.8
2,2-Dichloropropane		ND		4.9

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	86	50 - 138
1,2-Dichloroethane-d4 (Surr)	98	66 - 127
Toluene-d8 (Surr)	93	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-5@7.5**

Lab Sample ID: 720-12037-15 | Date Sampled: 12/04/2007 1126
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507023.D
Dilution: 1.0 | Initial Weight/Volume: 5.03 g
Date Analyzed: 12/05/2007 2049 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Acetone		ND		50
Benzene		ND		5.0
Dichlorobromomethane		ND		5.0
Bromobenzene		ND		5.0
Chlorobromomethane		ND		20
Bromoform		ND		5.0
Bromomethane		ND		9.9
2-Butanone (MEK)		ND		50
n-Butylbenzene		ND		5.0
sec-Butylbenzene		ND		5.0
tert-Butylbenzene		ND		5.0
Carbon disulfide		ND		5.0
Carbon tetrachloride		ND		5.0
Chlorobenzene		ND		5.0
Chloroethane		ND		9.9
Chloroform		ND		5.0
Chloromethane		ND		9.9
2-Chlorotoluene		ND		5.0
4-Chlorotoluene		ND		5.0
Chlorodibromomethane		ND		5.0
1,2-Dichlorobenzene		ND		5.0
1,3-Dichlorobenzene		ND		5.0
1,4-Dichlorobenzene		ND		5.0
1,3-Dichloropropane		ND		5.0
1,1-Dichloropropene		ND		5.0
1,2-Dibromo-3-Chloropropane		ND		50
Ethylene Dibromide		ND		5.0
Dibromomethane		ND		9.9
Dichlorodifluoromethane		ND		9.9
1,1-Dichloroethane		ND		5.0
1,2-Dichloroethane		ND		5.0
1,1-Dichloroethene		ND		5.0
cis-1,2-Dichloroethene		ND		5.0
trans-1,2-Dichloroethene		ND		5.0
1,2-Dichloropropane		ND		5.0
cis-1,3-Dichloropropene		ND		5.0
trans-1,3-Dichloropropene		ND		5.0
Ethylbenzene		ND		5.0
Hexachlorobutadiene		ND		5.0
2-Hexanone		ND		50
Isopropylbenzene		ND		5.0
4-Isopropyltoluene		ND		5.0
Methylene Chloride		ND		9.9

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-5@7.5**

Lab Sample ID: 720-12037-15 | Date Sampled: 12/04/2007 1126
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507023.D
Dilution: 1.0 | Initial Weight/Volume: 5.03 g
Date Analyzed: 12/05/2007 2049 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		50
Naphthalene		ND		9.9
N-Propylbenzene		ND		5.0
Styrene		ND		5.0
1,1,1,2-Tetrachloroethane		ND		5.0
1,1,2,2-Tetrachloroethane		ND		5.0
Tetrachloroethene		ND		5.0
Toluene		ND		5.0
1,2,3-Trichlorobenzene		ND		5.0
1,2,4-Trichlorobenzene		ND		5.0
1,1,1-Trichloroethane		ND		5.0
1,1,2-Trichloroethane		ND		5.0
Trichloroethene		ND		5.0
Trichlorofluoromethane		ND		5.0
1,2,3-Trichloropropane		ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.0
1,2,4-Trimethylbenzene		ND		5.0
1,3,5-Trimethylbenzene		ND		5.0
Vinyl acetate		ND		50
Vinyl chloride		ND		5.0
Xylenes, Total		ND		9.9
2,2-Dichloropropane		ND		5.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	85	50 - 138
1,2-Dichloroethane-d4 (Surr)	96	66 - 127
Toluene-d8 (Surr)	94	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-6@0**

Lab Sample ID: 720-12037-16 | Date Sampled: 12/04/2007 1203
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507024.D
Dilution: 1.0 | Initial Weight/Volume: 5.15 g
Date Analyzed: 12/05/2007 2114 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Acetone		ND		49
Benzene		ND		4.9
Dichlorobromomethane		ND		4.9
Bromobenzene		ND		4.9
Chlorobromomethane		ND		19
Bromoform		ND		4.9
Bromomethane		ND		9.7
2-Butanone (MEK)		ND		49
n-Butylbenzene		ND		4.9
sec-Butylbenzene		ND		4.9
tert-Butylbenzene		ND		4.9
Carbon disulfide		ND		4.9
Carbon tetrachloride		ND		4.9
Chlorobenzene		ND		4.9
Chloroethane		ND		9.7
Chloroform		ND		4.9
Chloromethane		ND		9.7
2-Chlorotoluene		ND		4.9
4-Chlorotoluene		ND		4.9
Chlorodibromomethane		ND		4.9
1,2-Dichlorobenzene		ND		4.9
1,3-Dichlorobenzene		ND		4.9
1,4-Dichlorobenzene		ND		4.9
1,3-Dichloropropane		ND		4.9
1,1-Dichloropropene		ND		4.9
1,2-Dibromo-3-Chloropropane		ND		49
Ethylene Dibromide		ND		4.9
Dibromomethane		ND		9.7
Dichlorodifluoromethane		ND		9.7
1,1-Dichloroethane		ND		4.9
1,2-Dichloroethane		ND		4.9
1,1-Dichloroethene		ND		4.9
cis-1,2-Dichloroethene		ND		4.9
trans-1,2-Dichloroethene		ND		4.9
1,2-Dichloropropane		ND		4.9
cis-1,3-Dichloropropene		ND		4.9
trans-1,3-Dichloropropene		ND		4.9
Ethylbenzene		ND		4.9
Hexachlorobutadiene		ND		4.9
2-Hexanone		ND		49
Isopropylbenzene		ND		4.9
4-Isopropyltoluene		ND		4.9
Methylene Chloride		ND		9.7

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-6@0**

Lab Sample ID: 720-12037-16 | Date Sampled: 12/04/2007 1203
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507024.D
Dilution: 1.0 | Initial Weight/Volume: 5.15 g
Date Analyzed: 12/05/2007 2114 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		49
Naphthalene		ND		9.7
N-Propylbenzene		ND		4.9
Styrene		ND		4.9
1,1,1,2-Tetrachloroethane		ND		4.9
1,1,2,2-Tetrachloroethane		ND		4.9
Tetrachloroethene		ND		4.9
Toluene		ND		4.9
1,2,3-Trichlorobenzene		ND		4.9
1,2,4-Trichlorobenzene		ND		4.9
1,1,1-Trichloroethane		ND		4.9
1,1,2-Trichloroethane		ND		4.9
Trichloroethene		ND		4.9
Trichlorofluoromethane		ND		4.9
1,2,3-Trichloropropane		ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.9
1,2,4-Trimethylbenzene		ND		4.9
1,3,5-Trimethylbenzene		ND		4.9
Vinyl acetate		ND		49
Vinyl chloride		ND		4.9
Xylenes, Total		ND		9.7
2,2-Dichloropropane		ND		4.9

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	72	50 - 138
1,2-Dichloroethane-d4 (Surr)	96	66 - 127
Toluene-d8 (Surr)	83	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-6@2**

Lab Sample ID: 720-12037-17 | Date Sampled: 12/04/2007 1208
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507025.D
Dilution: 1.0 | Initial Weight/Volume: 5.19 g
Date Analyzed: 12/05/2007 2139 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.8
Acetone		ND		48
Benzene		ND		4.8
Dichlorobromomethane		ND		4.8
Bromobenzene		ND		4.8
Chlorobromomethane		ND		19
Bromoform		ND		4.8
Bromomethane		ND		9.6
2-Butanone (MEK)		ND		48
n-Butylbenzene		ND		4.8
sec-Butylbenzene		ND		4.8
tert-Butylbenzene		ND		4.8
Carbon disulfide		ND		4.8
Carbon tetrachloride		ND		4.8
Chlorobenzene		ND		4.8
Chloroethane		ND		9.6
Chloroform		ND		4.8
Chloromethane		ND		9.6
2-Chlorotoluene		ND		4.8
4-Chlorotoluene		ND		4.8
Chlorodibromomethane		ND		4.8
1,2-Dichlorobenzene		ND		4.8
1,3-Dichlorobenzene		ND		4.8
1,4-Dichlorobenzene		ND		4.8
1,3-Dichloropropane		ND		4.8
1,1-Dichloropropene		ND		4.8
1,2-Dibromo-3-Chloropropane		ND		48
Ethylene Dibromide		ND		4.8
Dibromomethane		ND		9.6
Dichlorodifluoromethane		ND		9.6
1,1-Dichloroethane		ND		4.8
1,2-Dichloroethane		ND		4.8
1,1-Dichloroethene		ND		4.8
cis-1,2-Dichloroethene		ND		4.8
trans-1,2-Dichloroethene		ND		4.8
1,2-Dichloropropane		ND		4.8
cis-1,3-Dichloropropene		ND		4.8
trans-1,3-Dichloropropene		ND		4.8
Ethylbenzene		ND		4.8
Hexachlorobutadiene		ND		4.8
2-Hexanone		ND		48
Isopropylbenzene		ND		4.8
4-Isopropyltoluene		ND		4.8
Methylene Chloride		ND		9.6

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-6@2**

Lab Sample ID: 720-12037-17 | Date Sampled: 12/04/2007 1208
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507025.D
Dilution: 1.0 | Initial Weight/Volume: 5.19 g
Date Analyzed: 12/05/2007 2139 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		48
Naphthalene		ND		9.6
N-Propylbenzene		ND		4.8
Styrene		ND		4.8
1,1,1,2-Tetrachloroethane		ND		4.8
1,1,2,2-Tetrachloroethane		ND		4.8
Tetrachloroethene		ND		4.8
Toluene		ND		4.8
1,2,3-Trichlorobenzene		ND		4.8
1,2,4-Trichlorobenzene		ND		4.8
1,1,1-Trichloroethane		ND		4.8
1,1,2-Trichloroethane		ND		4.8
Trichloroethene		ND		4.8
Trichlorofluoromethane		ND		4.8
1,2,3-Trichloropropane		ND		4.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.8
1,2,4-Trimethylbenzene		ND		4.8
1,3,5-Trimethylbenzene		ND		4.8
Vinyl acetate		ND		48
Vinyl chloride		ND		4.8
Xylenes, Total		ND		9.6
2,2-Dichloropropane		ND		4.8

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	80	50 - 138
1,2-Dichloroethane-d4 (Surr)	94	66 - 127
Toluene-d8 (Surr)	87	51 - 129

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-6@7.5**

Lab Sample ID: 720-12037-18 | Date Sampled: 12/04/2007 1212
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507026.D
Dilution: 1.0 | Initial Weight/Volume: 5.02 g
Date Analyzed: 12/05/2007 2204 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Acetone		ND		50
Benzene		ND		5.0
Dichlorobromomethane		ND		5.0
Bromobenzene		ND		5.0
Chlorobromomethane		ND		20
Bromoform		ND		5.0
Bromomethane		ND		10
2-Butanone (MEK)		ND		50
n-Butylbenzene		ND		5.0
sec-Butylbenzene		ND		5.0
tert-Butylbenzene		ND		5.0
Carbon disulfide		ND		5.0
Carbon tetrachloride		ND		5.0
Chlorobenzene		ND		5.0
Chloroethane		ND		10
Chloroform		ND		5.0
Chloromethane		ND		10
2-Chlorotoluene		ND		5.0
4-Chlorotoluene		ND		5.0
Chlorodibromomethane		ND		5.0
1,2-Dichlorobenzene		ND		5.0
1,3-Dichlorobenzene		ND		5.0
1,4-Dichlorobenzene		ND		5.0
1,3-Dichloropropane		ND		5.0
1,1-Dichloropropene		ND		5.0
1,2-Dibromo-3-Chloropropane		ND		50
Ethylene Dibromide		ND		5.0
Dibromomethane		ND		10
Dichlorodifluoromethane		ND		10
1,1-Dichloroethane		ND		5.0
1,2-Dichloroethane		ND		5.0
1,1-Dichloroethene		ND		5.0
cis-1,2-Dichloroethene		ND		5.0
trans-1,2-Dichloroethene		ND		5.0
1,2-Dichloropropane		ND		5.0
cis-1,3-Dichloropropene		ND		5.0
trans-1,3-Dichloropropene		ND		5.0
Ethylbenzene		ND		5.0
Hexachlorobutadiene		ND		5.0
2-Hexanone		ND		50
Isopropylbenzene		ND		5.0
4-Isopropyltoluene		ND		5.0
Methylene Chloride		ND		10

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: **DP1-6@7.5**

Lab Sample ID: 720-12037-18 | Date Sampled: 12/04/2007 1212
Client Matrix: Solid | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29323 | Instrument ID: Agilent 75MSD
Preparation: 5030B | Prep Batch: 720-29261 | Lab File ID: 120507026.D
Dilution: 1.0 | Initial Weight/Volume: 5.02 g
Date Analyzed: 12/05/2007 2204 | Final Weight/Volume: 10 mL
Date Prepared: 12/05/2007 1130

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		50
Naphthalene		ND		10
N-Propylbenzene		ND		5.0
Styrene		ND		5.0
1,1,1,2-Tetrachloroethane		ND		5.0
1,1,2,2-Tetrachloroethane		ND		5.0
Tetrachloroethene		ND		5.0
Toluene		ND		5.0
1,2,3-Trichlorobenzene		ND		5.0
1,2,4-Trichlorobenzene		ND		5.0
1,1,1-Trichloroethane		ND		5.0
1,1,2-Trichloroethane		ND		5.0
Trichloroethene		ND		5.0
Trichlorofluoromethane		ND		5.0
1,2,3-Trichloropropane		ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.0
1,2,4-Trimethylbenzene		ND		5.0
1,3,5-Trimethylbenzene		ND		5.0
Vinyl acetate		ND		50
Vinyl chloride		ND		5.0
Xylenes, Total		ND		10
2,2-Dichloropropane		ND		5.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	87	50 - 138
1,2-Dichloroethane-d4 (Surr)	91	66 - 127
Toluene-d8 (Surr)	92	51 - 129

Client: Fugro West Incorporated

Job Number: 720-12037-1

Client Sample ID: DP1-1@0

Lab Sample ID: 720-12037-1
Client Matrix: Solid

Date Sampled: 12/04/2007 0851
Date Received: 12/04/2007 1727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/11/2007 2303
Date Prepared: 12/05/2007 1130

Analysis Batch: 720-29500
Prep Batch: 720-29257

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.03 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		3.5		0.97
Lead		4.8		0.97

Client: Fugro West Incorporated

Job Number: 720-12037-1

Client Sample ID: DP1-1@2

Lab Sample ID: 720-12037-2
Client Matrix: Solid

Date Sampled: 12/04/2007 0856
Date Received: 12/04/2007 1727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/11/2007 2307
Date Prepared: 12/05/2007 1130

Analysis Batch: 720-29500
Prep Batch: 720-29257

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.01 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		3.6		0.99
Lead		4.2		0.99

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: DP1-1@7.5

Lab Sample ID:	720-12037-3	Date Sampled:	12/04/2007 0902
Client Matrix:	Solid	Date Received:	12/04/2007 1727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 720-29548		Instrument ID:	Varian ICP
Preparation:	3050B	Prep Batch: 720-29278		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Date Analyzed:	12/13/2007 0218			Final Weight/Volume:	50 mL
Date Prepared:	12/05/2007 1438				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		2.6		0.98
Lead		2.9		0.98

Client: Fugro West Incorporated

Job Number: 720-12037-1

Client Sample ID: DP1-2@0

Lab Sample ID: 720-12037-4
Client Matrix: Solid

Date Sampled: 12/04/2007 0924
Date Received: 12/04/2007 1727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/13/2007 0222
Date Prepared: 12/05/2007 1438

Analysis Batch: 720-29548
Prep Batch: 720-29278

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		3.8		0.95
Lead		5.3		0.95

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: DP1-2@2

Lab Sample ID:	720-12037-5	Date Sampled:	12/04/2007 0929
Client Matrix:	Solid	Date Received:	12/04/2007 1727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 720-29548		Instrument ID:	Varian ICP
Preparation:	3050B	Prep Batch: 720-29278		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Date Analyzed:	12/13/2007 0225			Final Weight/Volume:	50 mL
Date Prepared:	12/05/2007 1438				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		4.0		0.97
Lead		5.6		0.97

Client: Fugro West Incorporated

Job Number: 720-12037-1

Client Sample ID: DP1-2@7.5

Lab Sample ID: 720-12037-6
Client Matrix: Solid

Date Sampled: 12/04/2007 0935
Date Received: 12/04/2007 1727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/13/2007 0236
Date Prepared: 12/05/2007 1438

Analysis Batch: 720-29548
Prep Batch: 720-29278

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.01 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		3.5		0.99
Lead		4.5		0.99

Client: Fugro West Incorporated

Job Number: 720-12037-1

Client Sample ID: DP1-3@0

Lab Sample ID: 720-12037-7
Client Matrix: Solid

Date Sampled: 12/04/2007 0959
Date Received: 12/04/2007 1727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/13/2007 0240
Date Prepared: 12/05/2007 1438

Analysis Batch: 720-29548
Prep Batch: 720-29278

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.01 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		3.9		0.99
Lead		5.2		0.99

Client: Fugro West Incorporated

Job Number: 720-12037-1

Client Sample ID: DP1-3@2

Lab Sample ID: 720-12037-8
Client Matrix: Solid

Date Sampled: 12/04/2007 1002
Date Received: 12/04/2007 1727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/13/2007 0244
Date Prepared: 12/05/2007 1438

Analysis Batch: 720-29548
Prep Batch: 720-29278

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 0.99 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		4.6		1.0
Lead		5.4		1.0

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: DP1-3@7.5

Lab Sample ID:	720-12037-9	Date Sampled:	12/04/2007 1007
Client Matrix:	Solid	Date Received:	12/04/2007 1727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 720-29548		Instrument ID:	Varian ICP
Preparation:	3050B	Prep Batch: 720-29278		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Date Analyzed:	12/13/2007 0247			Final Weight/Volume:	50 mL
Date Prepared:	12/05/2007 1438				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		3.4		1.0
Lead		2.9		1.0

Client: Fugro West Incorporated

Job Number: 720-12037-1

Client Sample ID: DP1-4@0

Lab Sample ID: 720-12037-10
Client Matrix: Solid

Date Sampled: 12/04/2007 1035
Date Received: 12/04/2007 1727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/13/2007 0251
Date Prepared: 12/05/2007 1438

Analysis Batch: 720-29548
Prep Batch: 720-29278

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.03 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		2.7		0.97
Lead		8.9		0.97

Client: Fugro West Incorporated

Job Number: 720-12037-1

Client Sample ID: DP1-4@2

Lab Sample ID: 720-12037-11
Client Matrix: Solid

Date Sampled: 12/04/2007 1039
Date Received: 12/04/2007 1727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/13/2007 0255
Date Prepared: 12/05/2007 1438

Analysis Batch: 720-29548
Prep Batch: 720-29278

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		3.6		1.0
Lead		4.9		1.0

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: DP1-4@7.5

Lab Sample ID:	720-12037-12	Date Sampled:	12/04/2007 1045
Client Matrix:	Solid	Date Received:	12/04/2007 1727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 720-29548		Instrument ID:	Varian ICP
Preparation:	3050B	Prep Batch: 720-29278		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Date Analyzed:	12/13/2007 0259			Final Weight/Volume:	50 mL
Date Prepared:	12/05/2007 1438				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		5.0		0.99
Lead		4.1		0.99

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: DP1-5@0

Lab Sample ID:	720-12037-13	Date Sampled:	12/04/2007 1118
Client Matrix:	Solid	Date Received:	12/04/2007 1727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 720-29548		Instrument ID:	Varian ICP
Preparation:	3050B	Prep Batch: 720-29278		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Date Analyzed:	12/13/2007 0303			Final Weight/Volume:	50 mL
Date Prepared:	12/05/2007 1438				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		5.4		0.99
Lead		44		0.99

Client: Fugro West Incorporated

Job Number: 720-12037-1

Client Sample ID: DP1-5@2

Lab Sample ID: 720-12037-14
Client Matrix: Solid

Date Sampled: 12/04/2007 1121
Date Received: 12/04/2007 1727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/13/2007 0307
Date Prepared: 12/05/2007 1438

Analysis Batch: 720-29548
Prep Batch: 720-29278

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 0.98 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		3.5		1.0
Lead		4.8		1.0

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: DP1-5@7.5

Lab Sample ID:	720-12037-15	Date Sampled:	12/04/2007 1126
Client Matrix:	Solid	Date Received:	12/04/2007 1727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 720-29592		Instrument ID:	Varian ICP
Preparation:	3050B	Prep Batch: 720-29278		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Date Analyzed:	12/13/2007 2347			Final Weight/Volume:	50 mL
Date Prepared:	12/05/2007 1438				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		3.2		0.95
Lead		3.3		0.95

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: DP1-6@2

Lab Sample ID:	720-12037-17	Date Sampled:	12/04/2007 1208
Client Matrix:	Solid	Date Received:	12/04/2007 1727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 720-29592		Instrument ID:	Varian ICP
Preparation:	3050B	Prep Batch: 720-29278		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Date Analyzed:	12/13/2007 2355			Final Weight/Volume:	50 mL
Date Prepared:	12/05/2007 1438				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		4.2		0.95
Lead		5.6		0.95

Client: Fugro West Incorporated | Job Number: 720-12037-1

Client Sample ID: DP1-6@7.5

Lab Sample ID:	720-12037-18	Date Sampled:	12/04/2007 1212
Client Matrix:	Solid	Date Received:	12/04/2007 1727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 720-29548		Instrument ID:	Varian ICP
Preparation:	3050B	Prep Batch: 720-29319		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Date Analyzed:	12/13/2007 0028			Final Weight/Volume:	50 mL
Date Prepared:	12/06/2007 1304				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		4.4		1.0
Lead		5.5		1.0

DATA REPORTING QUALIFIERS

Client: Fugro West Incorporated Job Number: 720-12037-1

Lab Section	Qualifier	Description
Metals		
	F	MS or MSD exceeds the control limits

Client: Fugro West Incorporated Job Number: 720-12037-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 720-29261					
LCS 720-29261/1-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-29261/2-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-29261/3-A	Method Blank	T	Solid	5030B	
720-12037-1	DP1-1@0	T	Solid	5030B	
720-12037-1MS	Matrix Spike	T	Solid	5030B	
720-12037-1MSD	Matrix Spike Duplicate	T	Solid	5030B	
720-12037-2	DP1-1@2	T	Solid	5030B	
720-12037-3	DP1-1@7.5	T	Solid	5030B	
720-12037-4	DP1-2@0	T	Solid	5030B	
720-12037-5	DP1-2@2	T	Solid	5030B	
720-12037-6	DP1-2@7.5	T	Solid	5030B	
720-12037-7	DP1-3@0	T	Solid	5030B	
720-12037-8	DP1-3@2	T	Solid	5030B	
720-12037-9	DP1-3@7.5	T	Solid	5030B	
720-12037-11	DP1-4@2	T	Solid	5030B	
720-12037-12	DP1-4@7.5	T	Solid	5030B	
720-12037-13	DP1-5@0	T	Solid	5030B	
720-12037-14	DP1-5@2	T	Solid	5030B	
720-12037-15	DP1-5@7.5	T	Solid	5030B	
720-12037-16	DP1-6@0	T	Solid	5030B	
720-12037-17	DP1-6@2	T	Solid	5030B	
720-12037-18	DP1-6@7.5	T	Solid	5030B	
Prep Batch: 720-29315					
LCS 720-29315/1-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-29315/2-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-29315/3-A	Method Blank	T	Solid	5030B	
720-12037-10	DP1-4@0	T	Solid	5030B	

Client: Fugro West Incorporated Job Number: 720-12037-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-29323					
LCS 720-29261/1-A	Lab Control Spike	T	Solid	8260B	720-29261
LCSD 720-29261/2-A	Lab Control Spike Duplicate	T	Solid	8260B	720-29261
MB 720-29261/3-A	Method Blank	T	Solid	8260B	720-29261
720-12037-1	DP1-1@0	T	Solid	8260B	720-29261
720-12037-1MS	Matrix Spike	T	Solid	8260B	720-29261
720-12037-1MSD	Matrix Spike Duplicate	T	Solid	8260B	720-29261
720-12037-2	DP1-1@2	T	Solid	8260B	720-29261
720-12037-3	DP1-1@7.5	T	Solid	8260B	720-29261
720-12037-4	DP1-2@0	T	Solid	8260B	720-29261
720-12037-5	DP1-2@2	T	Solid	8260B	720-29261
720-12037-6	DP1-2@7.5	T	Solid	8260B	720-29261
720-12037-7	DP1-3@0	T	Solid	8260B	720-29261
720-12037-8	DP1-3@2	T	Solid	8260B	720-29261
720-12037-9	DP1-3@7.5	T	Solid	8260B	720-29261
720-12037-11	DP1-4@2	T	Solid	8260B	720-29261
720-12037-12	DP1-4@7.5	T	Solid	8260B	720-29261
720-12037-13	DP1-5@0	T	Solid	8260B	720-29261
720-12037-14	DP1-5@2	T	Solid	8260B	720-29261
720-12037-15	DP1-5@7.5	T	Solid	8260B	720-29261
720-12037-16	DP1-6@0	T	Solid	8260B	720-29261
720-12037-17	DP1-6@2	T	Solid	8260B	720-29261
720-12037-18	DP1-6@7.5	T	Solid	8260B	720-29261
Analysis Batch:720-29355					
LCS 720-29315/1-A	Lab Control Spike	T	Solid	8260B	720-29315
LCSD 720-29315/2-A	Lab Control Spike Duplicate	T	Solid	8260B	720-29315
MB 720-29315/3-A	Method Blank	T	Solid	8260B	720-29315
720-12037-10	DP1-4@0	T	Solid	8260B	720-29315

Report Basis
T = Total

Client: Fugro West Incorporated Job Number: 720-12037-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-29257					
LCS 720-29257/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-29257/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
MB 720-29257/1-A	Method Blank	T	Solid	3050B	
720-12037-1	DP1-1@0	T	Solid	3050B	
720-12037-2	DP1-1@2	T	Solid	3050B	
Prep Batch: 720-29278					
LCS 720-29278/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-29278/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
LCSSRM 720-29278/25-A	LCS-Standard Reference Material	T	Solid	3050B	
MB 720-29278/1-A	Method Blank	T	Solid	3050B	
720-12037-3	DP1-1@7.5	T	Solid	3050B	
720-12037-3MS	Matrix Spike	T	Solid	3050B	
720-12037-3MSD	Matrix Spike Duplicate	T	Solid	3050B	
720-12037-4	DP1-2@0	T	Solid	3050B	
720-12037-5	DP1-2@2	T	Solid	3050B	
720-12037-6	DP1-2@7.5	T	Solid	3050B	
720-12037-7	DP1-3@0	T	Solid	3050B	
720-12037-8	DP1-3@2	T	Solid	3050B	
720-12037-9	DP1-3@7.5	T	Solid	3050B	
720-12037-10	DP1-4@0	T	Solid	3050B	
720-12037-11	DP1-4@2	T	Solid	3050B	
720-12037-12	DP1-4@7.5	T	Solid	3050B	
720-12037-13	DP1-5@0	T	Solid	3050B	
720-12037-14	DP1-5@2	T	Solid	3050B	
720-12037-15	DP1-5@7.5	T	Solid	3050B	
720-12037-17	DP1-6@2	T	Solid	3050B	
Prep Batch: 720-29319					
LCS 720-29319/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-29319/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
LCSSRM 720-29319/25-A	LCS-Standard Reference Material	T	Solid	3050B	
MB 720-29319/1-A	Method Blank	T	Solid	3050B	
720-12037-18	DP1-6@7.5	T	Solid	3050B	
720-12037-18MS	Matrix Spike	T	Solid	3050B	
720-12037-18MSD	Matrix Spike Duplicate	T	Solid	3050B	
Analysis Batch:720-29500					
LCS 720-29257/2-A	Lab Control Spike	T	Solid	6010B	720-29257
LCSD 720-29257/3-A	Lab Control Spike Duplicate	T	Solid	6010B	720-29257
MB 720-29257/1-A	Method Blank	T	Solid	6010B	720-29257
720-12037-1	DP1-1@0	T	Solid	6010B	720-29257
720-12037-2	DP1-1@2	T	Solid	6010B	720-29257

Client: Fugro West Incorporated Job Number: 720-12037-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:720-29548					
LCS 720-29278/2-A	Lab Control Spike	T	Solid	6010B	720-29278
LCSD 720-29278/3-A	Lab Control Spike Duplicate	T	Solid	6010B	720-29278
MB 720-29278/1-A	Method Blank	T	Solid	6010B	720-29278
LCS 720-29319/2-A	Lab Control Spike	T	Solid	6010B	720-29319
LCSD 720-29319/3-A	Lab Control Spike Duplicate	T	Solid	6010B	720-29319
LCSSRM 720-29319/25-A	LCS-Standard Reference Material	T	Solid	6010B	720-29319
MB 720-29319/1-A	Method Blank	T	Solid	6010B	720-29319
720-12037-3	DP1-1@7.5	T	Solid	6010B	720-29278
720-12037-3MS	Matrix Spike	T	Solid	6010B	720-29278
720-12037-3MSD	Matrix Spike Duplicate	T	Solid	6010B	720-29278
720-12037-4	DP1-2@0	T	Solid	6010B	720-29278
720-12037-5	DP1-2@2	T	Solid	6010B	720-29278
720-12037-6	DP1-2@7.5	T	Solid	6010B	720-29278
720-12037-7	DP1-3@0	T	Solid	6010B	720-29278
720-12037-8	DP1-3@2	T	Solid	6010B	720-29278
720-12037-9	DP1-3@7.5	T	Solid	6010B	720-29278
720-12037-10	DP1-4@0	T	Solid	6010B	720-29278
720-12037-11	DP1-4@2	T	Solid	6010B	720-29278
720-12037-12	DP1-4@7.5	T	Solid	6010B	720-29278
720-12037-13	DP1-5@0	T	Solid	6010B	720-29278
720-12037-14	DP1-5@2	T	Solid	6010B	720-29278
720-12037-18	DP1-6@7.5	T	Solid	6010B	720-29319
720-12037-18MS	Matrix Spike	T	Solid	6010B	720-29319
720-12037-18MSD	Matrix Spike Duplicate	T	Solid	6010B	720-29319
Analysis Batch:720-29592					
LCSSRM 720-29278/25-A	LCS-Standard Reference Material	T	Solid	6010B	720-29278
720-12037-15	DP1-5@7.5	T	Solid	6010B	720-29278
720-12037-17	DP1-6@2	T	Solid	6010B	720-29278

Report Basis
T = Total

Client: Fugro West Incorporated

Job Number: 720-12037-1

Method Blank - Batch: 720-29261

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29261/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/05/2007 1252
Date Prepared: 12/05/2007 1130

Analysis Batch: 720-29323
Prep Batch: 720-29261
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 120507005.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		5.0
Dichlorobromomethane	ND		5.0
Bromobenzene	ND		5.0
Chlorobromomethane	ND		20
Bromoform	ND		5.0
Bromomethane	ND		10
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		5.0
sec-Butylbenzene	ND		5.0
tert-Butylbenzene	ND		5.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		5.0
Chlorobenzene	ND		5.0
Chloroethane	ND		10
Chloroform	ND		5.0
Chloromethane	ND		10
2-Chlorotoluene	ND		5.0
4-Chlorotoluene	ND		5.0
Chlorodibromomethane	ND		5.0
1,2-Dichlorobenzene	ND		5.0
1,3-Dichlorobenzene	ND		5.0
1,4-Dichlorobenzene	ND		5.0
1,3-Dichloropropane	ND		5.0
1,1-Dichloropropene	ND		5.0
1,2-Dibromo-3-Chloropropane	ND		50
Ethylene Dibromide	ND		5.0
Dibromomethane	ND		10
Dichlorodifluoromethane	ND		10
1,1-Dichloroethane	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1-Dichloroethene	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
1,2-Dichloropropane	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Ethylbenzene	ND		5.0
Hexachlorobutadiene	ND		5.0
2-Hexanone	ND		50

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

Client: Fugro West Incorporated

Job Number: 720-12037-1

Method Blank - Batch: 720-29261

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29261/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/05/2007 1252
Date Prepared: 12/05/2007 1130

Analysis Batch: 720-29323
Prep Batch: 720-29261
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 120507005.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		5.0
4-Isopropyltoluene	ND		5.0
Methylene Chloride	ND		10
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		10
N-Propylbenzene	ND		5.0
Styrene	ND		5.0
1,1,1,2-Tetrachloroethane	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Tetrachloroethene	ND		5.0
Toluene	ND		5.0
1,2,3-Trichlorobenzene	ND		5.0
1,2,4-Trichlorobenzene	ND		5.0
1,1,1-Trichloroethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Trichloroethene	ND		5.0
Trichlorofluoromethane	ND		5.0
1,2,3-Trichloropropane	ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0
1,2,4-Trimethylbenzene	ND		5.0
1,3,5-Trimethylbenzene	ND		5.0
Vinyl acetate	ND		50
Vinyl chloride	ND		5.0
Xylenes, Total	ND		10
2,2-Dichloropropane	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	93	50 - 138
1,2-Dichloroethane-d4 (Surr)	90	66 - 127
Toluene-d8 (Surr)	92	51 - 129

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

Client: Fugro West Incorporated

Job Number: 720-12037-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29261

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-29261/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/05/2007 1202
Date Prepared: 12/05/2007 1130

Analysis Batch: 720-29323
Prep Batch: 720-29261
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 120507003.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-29261/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/05/2007 1227
Date Prepared: 12/05/2007 1130

Analysis Batch: 720-29323
Prep Batch: 720-29261
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 120507004.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	93	97	80 - 120	4	20		
Chlorobenzene	93	94	86 - 115	1	20		
1,1-Dichloroethene	102	103	81 - 140	0	20		
Toluene	92	96	81 - 120	4	20		
Trichloroethene	93	97	82 - 118	4	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	98	98	50 - 138
1,2-Dichloroethane-d4 (Surr)	96	97	66 - 127
Toluene-d8 (Surr)	98	98	51 - 129

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

Client: Fugro West Incorporated

Job Number: 720-12037-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-29261

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-12037-1	Analysis Batch:	720-29323	Instrument ID:	Agilent 75MSD
Client Matrix:	Solid	Prep Batch:	720-29261	Lab File ID:	120507008.D
Dilution:	1.0			Initial Weight/Volume:	5.07 g
Date Analyzed:	12/05/2007 1432			Final Weight/Volume:	10 mL
Date Prepared:	12/05/2007 1130				

MSD Lab Sample ID:	720-12037-1	Analysis Batch:	720-29323	Instrument ID:	Agilent 75MSD
Client Matrix:	Solid	Prep Batch:	720-29261	Lab File ID:	120507009.D
Dilution:	1.0			Initial Weight/Volume:	5.17 g
Date Analyzed:	12/05/2007 1457			Final Weight/Volume:	10 mL
Date Prepared:	12/05/2007 1130				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	95	98	63 - 126	1	20		
Chlorobenzene	88	90	57 - 124	1	20		
1,1-Dichloroethene	103	107	66 - 149	2	20		
Toluene	91	93	54 - 131	1	20		
Trichloroethene	91	93	53 - 130	0	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	95	96	50 - 138
1,2-Dichloroethane-d4 (Surr)	98	100	66 - 127
Toluene-d8 (Surr)	97	92	51 - 129

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

Client: Fugro West Incorporated

Job Number: 720-12037-1

Method Blank - Batch: 720-29315

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29315/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/06/2007 1234
Date Prepared: 12/06/2007 1100

Analysis Batch: 720-29355
Prep Batch: 720-29315
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 120607005.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		5.0
Dichlorobromomethane	ND		5.0
Bromobenzene	ND		5.0
Chlorobromomethane	ND		20
Bromoform	ND		5.0
Bromomethane	ND		10
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		5.0
sec-Butylbenzene	ND		5.0
tert-Butylbenzene	ND		5.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		5.0
Chlorobenzene	ND		5.0
Chloroethane	ND		10
Chloroform	ND		5.0
Chloromethane	ND		10
2-Chlorotoluene	ND		5.0
4-Chlorotoluene	ND		5.0
Chlorodibromomethane	ND		5.0
1,2-Dichlorobenzene	ND		5.0
1,3-Dichlorobenzene	ND		5.0
1,4-Dichlorobenzene	ND		5.0
1,3-Dichloropropane	ND		5.0
1,1-Dichloropropene	ND		5.0
1,2-Dibromo-3-Chloropropane	ND		50
Ethylene Dibromide	ND		5.0
Dibromomethane	ND		10
Dichlorodifluoromethane	ND		10
1,1-Dichloroethane	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1-Dichloroethene	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
1,2-Dichloropropane	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Ethylbenzene	ND		5.0
Hexachlorobutadiene	ND		5.0
2-Hexanone	ND		50

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

Client: Fugro West Incorporated

Job Number: 720-12037-1

Method Blank - Batch: 720-29315

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29315/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/06/2007 1234
Date Prepared: 12/06/2007 1100

Analysis Batch: 720-29355
Prep Batch: 720-29315
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 120607005.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		5.0
4-Isopropyltoluene	ND		5.0
Methylene Chloride	ND		10
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		10
N-Propylbenzene	ND		5.0
Styrene	ND		5.0
1,1,1,2-Tetrachloroethane	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Tetrachloroethene	ND		5.0
Toluene	ND		5.0
1,2,3-Trichlorobenzene	ND		5.0
1,2,4-Trichlorobenzene	ND		5.0
1,1,1-Trichloroethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Trichloroethene	ND		5.0
Trichlorofluoromethane	ND		5.0
1,2,3-Trichloropropane	ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0
1,2,4-Trimethylbenzene	ND		5.0
1,3,5-Trimethylbenzene	ND		5.0
Vinyl acetate	ND		50
Vinyl chloride	ND		5.0
Xylenes, Total	ND		10
2,2-Dichloropropane	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	94	50 - 138
1,2-Dichloroethane-d4 (Surr)	101	66 - 127
Toluene-d8 (Surr)	98	51 - 129

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

Client: Fugro West Incorporated

Job Number: 720-12037-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29315

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-29315/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/06/2007 1144
Date Prepared: 12/06/2007 1100

Analysis Batch: 720-29355
Prep Batch: 720-29315
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 120607003.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-29315/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/06/2007 1209
Date Prepared: 12/06/2007 1100

Analysis Batch: 720-29355
Prep Batch: 720-29315
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 120607004.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	101	105	80 - 120	4	20		
Chlorobenzene	98	99	86 - 115	2	20		
1,1-Dichloroethene	109	114	81 - 140	4	20		
Toluene	99	104	81 - 120	5	20		
Trichloroethene	99	104	82 - 118	5	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	95	97	50 - 138
1,2-Dichloroethane-d4 (Surr)	102	104	66 - 127
Toluene-d8 (Surr)	100	100	51 - 129

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

Client: Fugro West Incorporated

Job Number: 720-12037-1

Method Blank - Batch: 720-29257

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 720-29257/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/11/2007 2127
Date Prepared: 12/05/2007 1130

Analysis Batch: 720-29500
Prep Batch: 720-29257
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND		1.0
Lead	ND		1.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29257

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 720-29257/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/11/2007 2130
Date Prepared: 12/05/2007 1130

Analysis Batch: 720-29500
Prep Batch: 720-29257
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-29257/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/11/2007 2134
Date Prepared: 12/05/2007 1130

Analysis Batch: 720-29500
Prep Batch: 720-29257
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	86	84	80 - 120	2	20		
Lead	83	81	80 - 120	2	20		

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

Client: Fugro West Incorporated

Job Number: 720-12037-1

Method Blank - Batch: 720-29278

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 720-29278/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/13/2007 0159
Date Prepared: 12/05/2007 1438

Analysis Batch: 720-29548
Prep Batch: 720-29278
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND		1.0
Lead	ND		1.0

LCS-Standard Reference Material - Batch: 720-29278

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCSSRM 720-29278/25-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/14/2007 0021
Date Prepared: 12/05/2007 1438

Analysis Batch: 720-29592
Prep Batch: 720-29278
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.03 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	22.7	19.9	88	72 - 128	
Lead	44.1	37.1	84	75 - 126	

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

Client: Fugro West Incorporated Job Number: 720-12037-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29278

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 720-29278/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/13/2007 0202
Date Prepared: 12/05/2007 1438

Analysis Batch: 720-29548
Prep Batch: 720-29278
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-29278/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/13/2007 0206
Date Prepared: 12/05/2007 1438

Analysis Batch: 720-29548
Prep Batch: 720-29278
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	100	92	80 - 120	9	20		
Lead	97	90	80 - 120	7	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-29278

Method: 6010B
Preparation: 3050B

MS Lab Sample ID: 720-12037-3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/13/2007 0210
Date Prepared: 12/05/2007 1438

Analysis Batch: 720-29548
Prep Batch: 720-29278

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-12037-3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/13/2007 0214
Date Prepared: 12/05/2007 1438

Analysis Batch: 720-29548
Prep Batch: 720-29278

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 0.99 g
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	86	89	75 - 125	5	20		
Lead	80	84	75 - 125	6	20		

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

Client: Fugro West Incorporated

Job Number: 720-12037-1

Method Blank - Batch: 720-29319

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 720-29319/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/13/2007 0003
Date Prepared: 12/06/2007 1304

Analysis Batch: 720-29548
Prep Batch: 720-29319
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND		1.0
Lead	ND		1.0

LCS-Standard Reference Material - Batch: 720-29319

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCSSRM 720-29319/25-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/13/2007 0155
Date Prepared: 12/06/2007 1304

Analysis Batch: 720-29548
Prep Batch: 720-29319
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.03 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	22.7	18.9	83	72 - 128	
Lead	44.1	34.9	79	75 - 126	

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

Client: Fugro West Incorporated Job Number: 720-12037-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29319

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 720-29319/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/13/2007 0006
Date Prepared: 12/06/2007 1304

Analysis Batch: 720-29548
Prep Batch: 720-29319
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-29319/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/13/2007 0010
Date Prepared: 12/06/2007 1304

Analysis Batch: 720-29548
Prep Batch: 720-29319
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	99	98	80 - 120	1	20		
Lead	96	95	80 - 120	1	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-29319

Method: 6010B
Preparation: 3050B

MS Lab Sample ID: 720-12037-18
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/13/2007 0021
Date Prepared: 12/06/2007 1304

Analysis Batch: 720-29548
Prep Batch: 720-29319

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.02 g
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 720-12037-18
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/13/2007 0024
Date Prepared: 12/06/2007 1304

Analysis Batch: 720-29548
Prep Batch: 720-29319

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.02 g
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	77	77	75 - 125	0	20		
Lead	72	72	75 - 125	0	20	F	F

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

Login Sample Receipt Check List

Client: Fugro West Incorporated

Job Number: 720-12037-1

Login Number: 12037
List Source: TestAmerica San Francisco
Creator: Lewis, Trenton L
List Number: 1

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-12037-2

Job Description: Livermore HAZMAT Services

For:
Fugro West Incorporated
1000 Broadway, Suite 440
Oakland, CA 94607

Attention: Ms. Karen Emery

Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
12/18/2007

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

Metals
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Fugro West Incorporated Job Number: 720-12037-2

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-12037-16	**DP1-6@0**				
Arsenic		4.5	1.0	mg/Kg	6010B
Barium		210	1.0	mg/Kg	6010B
Beryllium		0.54	0.50	mg/Kg	6010B
Chromium		63	1.0	mg/Kg	6010B
Cobalt		16	1.0	mg/Kg	6010B
Copper		33	1.0	mg/Kg	6010B
Lead		6.2	1.0	mg/Kg	6010B
Nickel		120	1.0	mg/Kg	6010B
Vanadium		29	1.0	mg/Kg	6010B
Zinc		42	1.0	mg/Kg	6010B

METHOD SUMMARY

Client: Fugro West Incorporated Job Number: 720-12037-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL SF	SW846 6010B	
Acid Digestion of Sediments, Sludges, and Soils	TAL SF		SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL SF	SW846 7471A	
Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL SF		SW846 7471A

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

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

SAMPLE SUMMARY

Client: Fugro West Incorporated Job Number: 720-12037-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-12037-16	DP1-6@0	Solid	12/04/2007 1203	12/04/2007 1727

Client: Fugro West Incorporated | Job Number: 720-12037-2

Client Sample ID: DP1-6@0

Lab Sample ID: 720-12037-16 | Date Sampled: 12/04/2007 1203
Client Matrix: Solid | Date Received: 12/04/2007 1727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 720-29592	Instrument ID: Varian ICP
Preparation:	3050B	Prep Batch: 720-29377	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1.0 g
Date Analyzed:	12/13/2007 2351		Final Weight/Volume: 50 mL
Date Prepared:	12/07/2007 1530		

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Antimony		ND		2.0
Arsenic		4.5		1.0
Barium		210		1.0
Beryllium		0.54		0.50
Cadmium		ND		0.50
Chromium		63		1.0
Cobalt		16		1.0
Copper		33		1.0
Lead		6.2		1.0
Molybdenum		ND		1.0
Nickel		120		1.0
Selenium		ND		2.0
Silver		ND		1.0
Thallium		ND		1.0
Vanadium		29		1.0
Zinc		42		1.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:	7471A	Analysis Batch: 720-29531	Instrument ID: FIMS 100
Preparation:	7471A	Prep Batch: 720-29482	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.99 g
Date Analyzed:	12/12/2007 1509		Final Weight/Volume: 50 mL
Date Prepared:	12/11/2007 1442		

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.051

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: Fugro West Incorporated Job Number: 720-12037-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-29377					
LCS 720-29377/2-A	Lab Control Spike	T	Solid	3050B	
LCSD 720-29377/3-A	Lab Control Spike Duplicate	T	Solid	3050B	
MB 720-29377/1-A	Method Blank	T	Solid	3050B	
720-12037-16	DP1-6@0	T	Solid	3050B	
Prep Batch: 720-29482					
LCS 720-29482/2-A	Lab Control Spike	T	Solid	7471A	
LCSD 720-29482/3-A	Lab Control Spike Duplicate	T	Solid	7471A	
MB 720-29482/1-A	Method Blank	T	Solid	7471A	
720-12037-16	DP1-6@0	T	Solid	7471A	
Analysis Batch:720-29531					
LCS 720-29482/2-A	Lab Control Spike	T	Solid	7471A	720-29482
LCSD 720-29482/3-A	Lab Control Spike Duplicate	T	Solid	7471A	720-29482
MB 720-29482/1-A	Method Blank	T	Solid	7471A	720-29482
720-12037-16	DP1-6@0	T	Solid	7471A	720-29482
Analysis Batch:720-29548					
LCS 720-29377/2-A	Lab Control Spike	T	Solid	6010B	720-29377
LCSD 720-29377/3-A	Lab Control Spike Duplicate	T	Solid	6010B	720-29377
MB 720-29377/1-A	Method Blank	T	Solid	6010B	720-29377
Analysis Batch:720-29592					
720-12037-16	DP1-6@0	T	Solid	6010B	720-29377

Report Basis
T = Total

Client: Fugro West Incorporated

Job Number: 720-12037-2

Method Blank - Batch: 720-29377

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 720-29377/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/12/2007 2220
Date Prepared: 12/07/2007 1530

Analysis Batch: 720-29548
Prep Batch: 720-29377
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Antimony	ND		2.0
Arsenic	ND		1.0
Barium	ND		1.0
Beryllium	ND		0.50
Cadmium	ND		0.50
Chromium	ND		1.0
Cobalt	ND		1.0
Copper	ND		1.0
Lead	ND		1.0
Molybdenum	ND		1.0
Nickel	ND		1.0
Selenium	ND		2.0
Silver	ND		1.0
Thallium	ND		1.0
Vanadium	ND		1.0
Zinc	ND		1.0

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

Client: Fugro West Incorporated

Job Number: 720-12037-2

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29377

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 720-29377/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/12/2007 2223
Date Prepared: 12/07/2007 1530

Analysis Batch: 720-29548
Prep Batch: 720-29377
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-29377/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/12/2007 2227
Date Prepared: 12/07/2007 1530

Analysis Batch: 720-29548
Prep Batch: 720-29377
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Antimony	99	101	80 - 120	2	20		
Arsenic	100	101	80 - 120	1	20		
Barium	94	95	80 - 120	1	20		
Beryllium	100	102	80 - 120	2	20		
Cadmium	94	95	80 - 120	1	20		
Chromium	98	100	80 - 120	1	20		
Cobalt	98	100	80 - 120	1	20		
Copper	100	102	80 - 120	2	20		
Lead	96	98	80 - 120	1	20		
Molybdenum	99	101	80 - 120	2	20		
Nickel	96	98	80 - 120	1	20		
Selenium	99	101	80 - 120	2	20		
Silver	102	103	80 - 120	1	20		
Thallium	95	97	80 - 120	1	20		
Vanadium	99	101	80 - 120	2	20		
Zinc	96	97	80 - 120	1	20		

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

Client: Fugro West Incorporated

Job Number: 720-12037-2

Method Blank - Batch: 720-29482

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 720-29482/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/12/2007 1449
Date Prepared: 12/11/2007 1442

Analysis Batch: 720-29531
Prep Batch: 720-29482
Units: mg/Kg

Instrument ID: FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Mercury	ND		0.050

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29482

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 720-29482/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/12/2007 1451
Date Prepared: 12/11/2007 1442

Analysis Batch: 720-29531
Prep Batch: 720-29482
Units: mg/Kg

Instrument ID: FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-29482/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/12/2007 1452
Date Prepared: 12/11/2007 1442

Analysis Batch: 720-29531
Prep Batch: 720-29482
Units: mg/Kg

Instrument ID: FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	100	99	85 - 115	0	20		

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

Login Sample Receipt Check List

Client: Fugro West Incorporated

Job Number: 720-12037-2

Login Number: 12037
List Source: TestAmerica San Francisco
Creator: Lewis, Trenton L
List Number: 1

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-12042-1

Job Description: Livermore HAZMAT Services

For:
Fugro West Incorporated
1000 Broadway, Suite 440
Oakland, CA 94607

Attention: Ms. Karen Emery

Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
12/12/2007

Job Narrative
720-J12042-1

Comments
No additional comments.

Receipt
Received 2 TB's not on COC; analyze per client's e-mail 12/7/07.

All other samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Fugro West Incorporated Job Number: 720-12042-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-12042-1	**A1-2**				
tert-Butylbenzene		2.2	1.0	ug/L	8260B
Tetrachloroethene		1.9	0.50	ug/L	8260B
720-12042-2	**A1-2 DUP**				
tert-Butylbenzene		2.7	1.0	ug/L	8260B
Tetrachloroethene		2.1	0.50	ug/L	8260B

METHOD SUMMARY

Client: Fugro West Incorporated Job Number: 720-12042-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS (Low Level)	TAL SF	SW846 8260B	
Purge-and-Trap	TAL SF		SW846 5030B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

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

SAMPLE SUMMARY

Client: Fugro West Incorporated Job Number: 720-12042-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-12042-1	A1-2	Water	12/04/2007 1400	12/04/2007 1727
720-12042-2	A1-2 DUP	Water	12/04/2007 1400	12/04/2007 1727
720-12042-3TB	TRIP BLANK	Water	12/04/2007 0000	12/04/2007 1727

Client: Fugro West Incorporated | Job Number: 720-12042-1

Client Sample ID: A1-2

Lab Sample ID: 720-12042-1 | Date Sampled: 12/04/2007 1400
Client Matrix: Water | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29432 | Instrument ID: Saturn 2K3
Preparation: 5030B | Lab File ID: d:\data\200712\121007\SA-
Dilution: 1.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 12/10/2007 1820 | Final Weight/Volume: 40 mL
Date Prepared: 12/10/2007 1820

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	2.2		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Fugro West Incorporated | Job Number: 720-12042-1

Client Sample ID: A1-2

Lab Sample ID: 720-12042-1 | Date Sampled: 12/04/2007 1400
Client Matrix: Water | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29432 | Instrument ID: Saturn 2K3
Preparation: 5030B | Lab File ID: d:\data\200712\121007\SA-
Dilution: 1.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 12/10/2007 1820 | Final Weight/Volume: 40 mL
Date Prepared: 12/10/2007 1820

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	1.9		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	115	83 - 127
1,2-Dichloroethane-d4 (Surr)	90	86 - 129
Toluene-d8 (Surr)	115	82 - 126

Client: Fugro West Incorporated | Job Number: 720-12042-1

Client Sample ID: A1-2 DUP

Lab Sample ID: 720-12042-2 | Date Sampled: 12/04/2007 1400
Client Matrix: Water | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29432 | Instrument ID: Saturn 2K3
Preparation: 5030B | Lab File ID: d:\data\200712\121007\SA-
Dilution: 1.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 12/10/2007 1853 | Final Weight/Volume: 40 mL
Date Prepared: 12/10/2007 1853

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	2.7		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Fugro West Incorporated | Job Number: 720-12042-1

Client Sample ID: A1-2 DUP

Lab Sample ID: 720-12042-2 | Date Sampled: 12/04/2007 1400
Client Matrix: Water | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29432 | Instrument ID: Saturn 2K3
Preparation: 5030B | Lab File ID: d:\data\200712\121007\SA-
Dilution: 1.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 12/10/2007 1853 | Final Weight/Volume: 40 mL
Date Prepared: 12/10/2007 1853

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	2.1		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	119	83 - 127
1,2-Dichloroethane-d4 (Surr)	90	86 - 129
Toluene-d8 (Surr)	116	82 - 126

Client: Fugro West Incorporated | Job Number: 720-12042-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 720-12042-3TB | Date Sampled: 12/04/2007 0000
Client Matrix: Water | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29487 | Instrument ID: Varian 3900G
Preparation: 5030B | Lab File ID: c:\saturnws\data\200712\12
Dilution: 1.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 12/11/2007 1359 | Final Weight/Volume: 40 mL
Date Prepared: 12/11/2007 1359

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Fugro West Incorporated | Job Number: 720-12042-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 720-12042-3TB | Date Sampled: 12/04/2007 0000
Client Matrix: Water | Date Received: 12/04/2007 1727

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B | Analysis Batch: 720-29487 | Instrument ID: Varian 3900G
Preparation: 5030B | Lab File ID: c:\saturnws\data\200712\12
Dilution: 1.0 | Initial Weight/Volume: 40 mL
Date Analyzed: 12/11/2007 1359 | Final Weight/Volume: 40 mL
Date Prepared: 12/11/2007 1359

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	111	83 - 127
1,2-Dichloroethane-d4 (Surr)	98	86 - 129
Toluene-d8 (Surr)	102	82 - 126

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: Fugro West Incorporated

Job Number: 720-12042-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-29432					
LCS 720-29432/2	Lab Control Spike	T	Water	8260B	
LCSD 720-29432/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-29432/3	Method Blank	T	Water	8260B	
720-12042-1	A1-2	T	Water	8260B	
720-12042-2	A1-2 DUP	T	Water	8260B	
Analysis Batch:720-29487					
LCS 720-29487/3	Lab Control Spike	T	Water	8260B	
LCSD 720-29487/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-29487/4	Method Blank	T	Water	8260B	
720-12042-3TB	TRIP BLANK	T	Water	8260B	

Report Basis
T = Total

Client: Fugro West Incorporated

Job Number: 720-12042-1

Method Blank - Batch: 720-29432

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29432/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/10/2007 1205
Date Prepared: 12/10/2007 1205

Analysis Batch: 720-29432
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200712\121007\MB
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50

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

Client: Fugro West Incorporated

Job Number: 720-12042-1

Method Blank - Batch: 720-29432

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29432/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/10/2007 1205
Date Prepared: 12/10/2007 1205

Analysis Batch: 720-29432
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200712\121007\MB
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	121	83 - 127
1,2-Dichloroethane-d4 (Surr)	95	86 - 129
Toluene-d8 (Surr)	108	82 - 126

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

Client: Fugro West Incorporated Job Number: 720-12042-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29432

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-29432/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/10/2007 1058
Date Prepared: 12/10/2007 1058

Analysis Batch: 720-29432
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200712\121007\LS·
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-29432/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/10/2007 1131
Date Prepared: 12/10/2007 1131

Analysis Batch: 720-29432
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200712\121007\LD-V
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	84	93	69 - 129	11	20		
Chlorobenzene	104	106	61 - 121	2	20		
1,1-Dichloroethene	84	92	65 - 125	9	20		
Toluene	84	92	70 - 130	8	20		
Trichloroethene	78	84	74 - 134	8	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	109	108	83 - 127
1,2-Dichloroethane-d4 (Surr)	91	92	86 - 129
Toluene-d8 (Surr)	96	95	82 - 126

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

Client: Fugro West Incorporated Job Number: 720-12042-1

Method Blank - Batch: 720-29487

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29487/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/11/2007 1219
Date Prepared: 12/11/2007 1219

Analysis Batch: 720-29487
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200712\12
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50

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

Client: Fugro West Incorporated

Job Number: 720-12042-1

Method Blank - Batch: 720-29487

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29487/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/11/2007 1219
Date Prepared: 12/11/2007 1219

Analysis Batch: 720-29487
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200712\12
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	107	83 - 127
1,2-Dichloroethane-d4 (Surr)	100	86 - 129
Toluene-d8 (Surr)	102	82 - 126

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

Client: Fugro West Incorporated

Job Number: 720-12042-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29487

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-29487/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/11/2007 1112
Date Prepared: 12/11/2007 1112

Analysis Batch: 720-29487
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200712\1
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-29487/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/11/2007 1146
Date Prepared: 12/11/2007 1146

Analysis Batch: 720-29487
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200712\121
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	86	95	69 - 129	9	20		
Chlorobenzene	98	107	61 - 121	9	20		
1,1-Dichloroethene	91	100	65 - 125	9	20		
Toluene	89	100	70 - 130	12	20		
Trichloroethene	82	97	74 - 134	16	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	110	105	83 - 127
1,2-Dichloroethane-d4 (Surr)	103	101	86 - 129
Toluene-d8 (Surr)	103	103	82 - 126

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

Brewer, Melissa

From: Emery, Karen [FWI] [kemery@fugro.com]
Sent: Friday, December 07, 2007 9:49 AM
To: Brewer, Melissa
Subject: RE: Sample Login Confirmation for 720-12042: Livermore HAZMAT Services

Hi Melissa-

They should have been listed on the COC. Please take them off of hold and analyze for VOCs.

Thanks,
Karen

-----Original Message-----
From: Brewer, Melissa [mailto:melissa.brewer@testamericainc.com]
Sent: Wednesday, December 05, 2007 5:46 PM
To: Emery, Karen [FWI]
Subject: Sample Login Confirmation for 720-12042: Livermore HAZMAT Services

Received 2 Trip Blanks that were not noted on the COC. We logged them in "on hold".

Melissa Brewer
TestAmerica San Francisco
(925) 484-1919
melissa.brewer@testamericainc.com
www.testamericainc.com
THE LEADER IN ENVIRONMENTAL TESTING

Reference: [019915]
Attachments: 3

Confidentiality Notice: The information contained in this message is intended only for the use of the addressee, and may be confidential and/or privileged. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

Login Sample Receipt Check List

Client: Fugro West Incorporated

Job Number: 720-12042-1

Login Number: 12042
List Source: TestAmerica San Francisco
Creator: Lewis, Trenton L
List Number: 1

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

APPENDIX D
LIMITED SUBSURFACE ASSESSMENT REPORT DATED MAY 22, 2006

ENGEO INCORPORATED

CONFIDENTIAL

GEOTECHNICAL
ENVIRONMENTAL
WATER RESOURCES
CONSTRUCTION SERVICES

Project No.
6907.1.004.02

May 22, 2006

Mr. Eric Keller
Livermore Chestnut Associates, LLC
c/o Arroyo Crossing, Inc
2001 Windward Way, Suite 200
San Mateo, CA 94404

Subject: M Street Parcel
241 North M Street
Livermore, California

LIMITED SUBSURFACE ASSESSMENT

Dear Mr. Keller:

ENGEO Incorporated is pleased to present our subsurface assessment of the subject property, located in Livermore, California (Figure 1). The purpose of the study was to provide an assessment of potential impacts and environmental concerns associated with the operations of the D&M Auto Parts Machine Shop.

SCOPE OF WORK

The scope of work included the following:

- Advance of three ±7.5-foot-deep direct push boring with the collection of three-to-four soil samples.
- Laboratory analysis of the soil samples for Total Petroleum Hydrocarbons (EPA 8015m) and Volatile Organic Compounds (VOCs - EPA 8260).
- Preparation of a summary report with our conclusions and recommendations.

BACKGROUND

We understand the current machine shop has been in operation since the 1970's. The current operator, Gene Hale, has managed the facility for approximately 37 years. A room along the southeastern edge of the building is used to wash and rinse parts directly into a floor drain, which was connected directly to the municipal sewer. Approximately five years ago, the City of Livermore informed the property owner that he was no longer allowed to discharge his waster to the

Livermore informed the property owner that he was no longer allowed to discharge his waster to the sewer and that the drain needed to be plugged. Currently, the drain is used to hold the discharge until it is pumped to a tank where it is steamed away.

SOIL SAMPLING

Sampling activities were conducted on May 18, 2006. Two of the three borings were located approximately within 10 inches of the northeast and southwest sides of the existing plugged drain. The third boring was located within 8 inches north of the sewer line on the outer east side of the building (Figure 2). A total of 11 soil samples were retrieved using a proprietary penetrometer-percussion probe. Drilling was performed under the direction of an ENGEO Environmental Geologist. Sampling equipment was cleaned with Alquinox and rinsed with distilled water.

Soil samples taken next to the plugged drain were recovered at depths of 1.5, 3, 4.5 and 7.5 feet below the concrete floor surface. Soil samples taken outside of the building near the sewer line were recovered at 1.5, 4.5 and 7.5 feet. The samples were retrieved in clean ¾-inch by 6-inch brass liners, which were sealed with Teflon tape and plastic end caps. Following recovery, the samples were labeled and preserved in a cooled ice chest for transportation to McCampbell Analytical, Inc. in Pacheco, California. The deeper samples from each of the borings were held pending laboratory testing of the shallow soil samples. Soils consisted of grayish brown clays with fine to coarse gravel, with a layer of light yellowish brown sandstone at approximately 6 feet below ground surface. No water was encountered in the boring.

LABORATORY ANALYSIS

Soil samples were analyzed for Volatile Organic Compounds (VOCs) according to EPA Test Method 8260B and Total Recoverable Petroleum Hydrocarbons according to EPA 418.1. No VOCs were reported above the laboratory reporting limit. Petroleum hydrocarbons were reported for two of the soil samples, at concentrations of 140 and 230 milligrams per kilogram (mg/kg). These concentrations are below the current Environmental Screening Level (ESL) of 400 mg/kg maintained by the San Francisco Regional Water Quality Control Board (SFRWQCB).

ASSESSMENT FINDINGS

Based on a review of the field and laboratory data, there is no evidence of significant subsurface impacts associated with the D & M facility. ENGEO recommends that the property is viewed by an environmental professional during demolition activities.

If you have any questions regarding this letter, please do not hesitate to contact us.

Very truly yours,

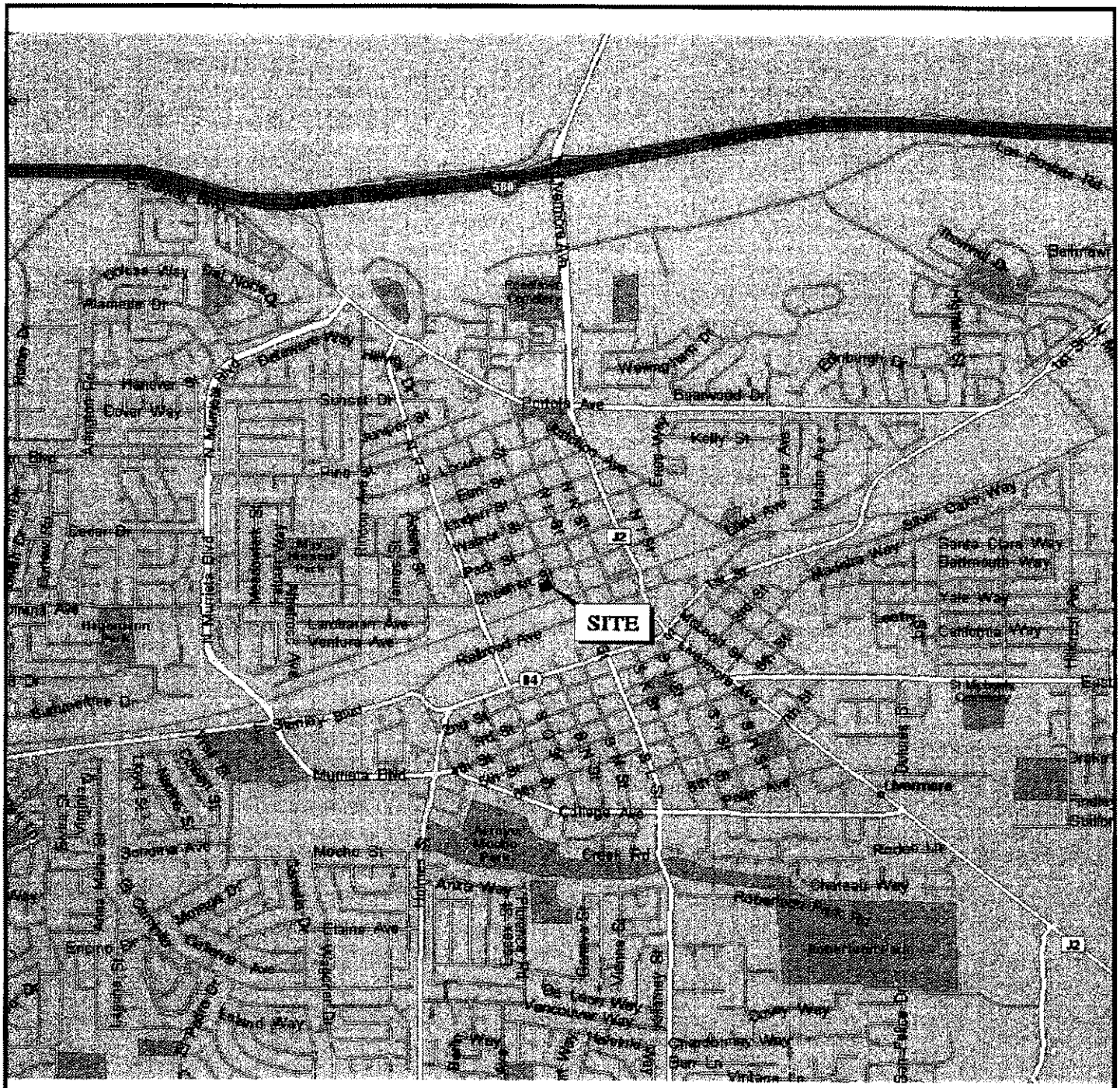
ENGEO INCORPORATED

Rachel Sultan
rs/smc:limited

Reviewed by:

Shawn Munger, PG

Attachments: Figures
McCampbell Analytical Test Results



BASE MAP SOURCE: MS STREETS AND TRIPS

ENGEO INCORPORATED
EXCELLENT SERVICE SINCE 1971

VICINITY MAP
M STREET PARCEL
LIVERMORE, CALIFORNIA

PROJECT NO.: 6907.1.004.02	FIGURE NO. 1
DATE: MAY 2006	
DRAWN BY: SRP	CHECKED BY: SM

ORIGINAL FIGURE PRINTED IN COLOR

G:\Drafting\DRAFTING2\...\6907\004\LSA\6907004LSA-1-VicMap-0506.dwg 5-25-06 04:29:10 PM

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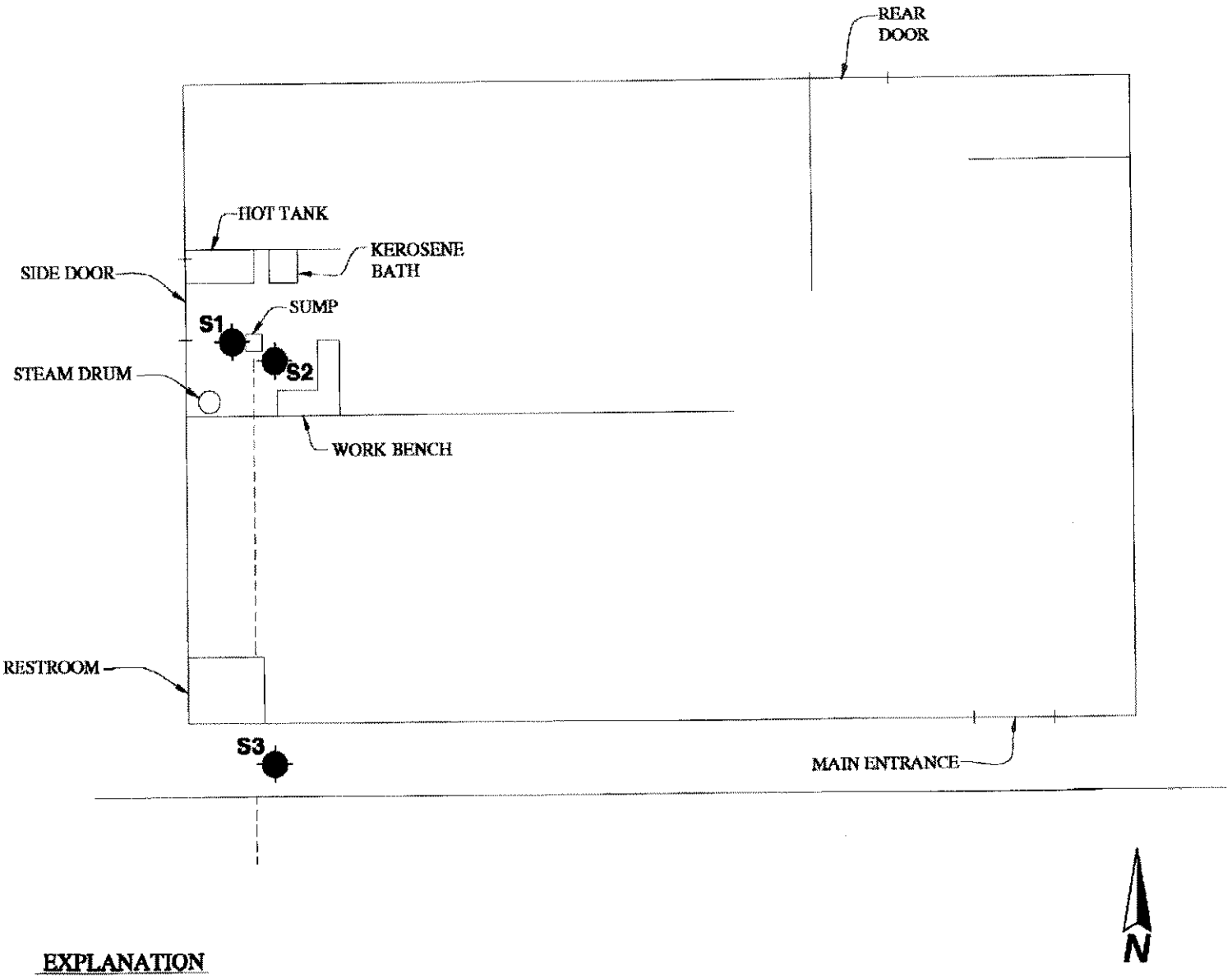

EXPLANATION

S3 — APPROXIMATE LOCATION OF PROPOSED SAMPLE

NO SCALE

ENGEO INCORPORATED
EXCELLENT SERVICE SINCE 1971

SITE PLAN
M STREET PARCEL
LIVERMORE, CALIFORNIA

PROJECT NO.: 6907.1.004.02	FIGURE NO. 2
DATE: MAY 2006	
DRAWN BY: SRP	CHECKED BY: SM

S:\Drafting\CAD\Figs\6900\004\ESA\6907100402-ESA-SitePlan-0508.dwg 5-25-08 04:30:30 PM

Jun 04 2007 2:42PM City of Livermore 925-960-4149 p.16

0605386

McCAMPBELL ANALYTICAL, INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY
EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Shawn Munger Bill To: ENGEO
Company: ENGEO
E-Mail: smunger@engeo.com
Tele: (925) 866-9000 Fax: ( )
Project #: Project Name: 6907.1.002.04
Project Location: M Street Parcel, Livermore
Sampler Signature:

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 505 / 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Other	Comments
B1-a	1.5 ft		10:02	1	BR		X												X						X							
B1-b	3 ft		9:59	1															X						X							
B1-c	4.5 ft		10:08	1															X						X							
B1-d	7.5 ft		10:19	1															X						X							hold
B2-a	1.5 ft		9:41	1															X						X							
B2-b	3.5 ft		9:35	1															X						X							
B2-c	4.5 ft		9:38	1															X						X							
B2-d	7.5 ft		9:45	1															X						X							hold
B3-a	1.5 ft		10:28	1															X						X							
B3-b	4.5 ft		10:38	1															X						X							
B3-c	7.5 ft		10:48	1	↓		↓				↓								X						X							hold

Relinquished By:	Date:	Time:	Received By:
[signature]	5/16/07	1:45	[signature]
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

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

COMMENTS:

PRESERVATION: VOAS | O&G | METALS pH<2 | OTHER

Pg 1 of 1

Filter Samples for Metals analysis: Yes / No

Jun 04 2007 2:42PM City of Livermore 925-960-4149 P.17

McCampbell Analytical, Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0605386 **ClientID: ENGE** **EDF: NO**

Report to:
Shawn Munger
ENGEO Incorporated
2010 Crow Canyon Place, Ste 250
San Ramon, CA 94583-4634
TEL: (925) 866-9000
FAX: (925) 866-0199
ProjectNo: #6907.1.002.04; M Street Parcel, Liverm
PO:

Bill to:
Accounts Payable
ENGEO Incorporated
2010 Crow Canyon Place, Ste 250
San Ramon, CA 94583-4634

Requested TAT: 3 days
Date Received: 05/18/2006
Date Printed: 05/19/2006

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0605386-001	B1-a	Soil	5/18/06 10:02:00	☐	A	A										
0605386-002	B1-b	Soil	5/18/06 9:59:00 AM	☐	A	A										
0605386-003	B1-c	Soil	5/18/06 10:08:00	☐	A	A										
0605386-005	B2-a	Soil	5/18/06 9:41:00 AM	☐	A	A										
0605386-006	B2-b	Soil	5/18/06 9:35:00 AM	☐	A	A										
0605386-007	B2-c	Soil	5/18/06 9:38:00 AM	☐	A	A										
0605386-009	B3-a	Soil	5/18/06 10:28:00	☐	A	A										
0605386-010	B3-b	Soil	5/18/06 10:38:00	☐	A	A										

Test Legend:

1	418_SG_S	2	8260B_S	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

Comments:

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

Jun 04 2007 2:43PM City of Livermore 925-960-4149 p.18

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

ENGEO Incorporated	Client Project ID: #6907.1.002.04; M Street Parcel, Livermore	Date Sampled: 05/18/06
2010 Crow Canyon Place, Ste 250		Date Received: 05/18/06
San Ramon, CA 94583-4634	Client Contact: Shawn Munger	Date Extracted: 05/18/06
	Client P.O.:	Date Analyzed: 05/19/06

Total Recoverable Petroleum Hydrocarbons with Silica Gel Clean-Up by IR Spectrometry*

Analytical methods: E418.1 Work Order: 0605386

Lab ID	Client ID	Matrix	TRPH	DF	% SS
0605386-001A	B1-a	S	ND	1	100
0605386-002A	B1-b	S	ND	1	102
0605386-003A	B1-c	S	ND	1	103
0605386-005A	B2-a	S	230	1	102
0605386-006A	B2-b	S	140	1	106
0605386-007A	B2-c	S	ND	1	104
0605386-009A	B3-a	S	ND	1	104
0605386-010A	B3-b	S	ND	1	102

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	NA	NA
	S	10	mg/Kg

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

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

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

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

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

ENGEO Incorporated	Client Project ID: #6907.1.002.04; M Street Parcel, Livermore	Date Sampled: 05/18/06
		Date Received: 05/18/06
2010 Crow Canyon Place, Ste 250	Client Contact: Shawn Munger	Date Extracted: 05/18/06
San Ramon, CA 94583-4634	Client P.O.:	Date Analyzed: 05/20/06

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0605386

Lab ID	0605386-001A
Client ID	B1-a
Matrix	Soil

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

Surrogate Recoveries (%)			
%SS1:	80	%SS2:	103
%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; 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.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

ENGEO Incorporated	Client Project ID: #6907.1.002.04; M Street Parcel, Livermore	Date Sampled: 05/18/06
		Date Received: 05/18/06
2010 Crow Canyon Place, Ste 250	Client Contact: Shawn Munger	Date Extracted: 05/18/06
San Ramon, CA 94583-4634	Client P.O.:	Date Analyzed: 05/20/06

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0605386

Lab ID	0605386-002A
Client ID	B1-b
Matrix	Soil

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

Surrogate Recoveries (%)			
%SS1:	80	%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; 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.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

ENGEO Incorporated	Client Project ID: #6907.1.002.04; M Street Parcel, Livermore	Date Sampled: 05/18/06
		Date Received: 05/18/06
2010 Crow Canyon Place, Ste 250	Client Contact: Shawn Munger	Date Extracted: 05/18/06
San Ramon, CA 94583-4634	Client P.O.:	Date Analyzed: 05/20/06

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0605386

Lab ID	0605386-003A
Client ID	B1-c
Matrix	Soil

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

Surrogate Recoveries (%)			
%SS1:	82	%SS2:	100
%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; 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.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

ENGEO Incorporated	Client Project ID: #6907.1.002.04; M Street Parcel, Livermore	Date Sampled: 05/18/06
		Date Received: 05/18/06
2010 Crow Canyon Place, Ste 250	Client Contact: Shawn Munger	Date Extracted: 05/18/06
San Ramon, CA 94583-4634	Client P.O.:	Date Analyzed: 05/20/06

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0605386

Lab ID	0605386-005A
Client ID	B2-a
Matrix	Soil

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

Surrogate Recoveries (%)			
%SS1:	81	%SS2:	100
%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; 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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Website: www.mccampbell.com E-mail: main@mccampbell.com

ENGEO Incorporated	Client Project ID: #6907.1.002.04; M Street Parcel, Livermore	Date Sampled: 05/18/06
2010 Crow Canyon Place, Ste 250		Date Received: 05/18/06
	Client Contact: Shawn Munger	Date Extracted: 05/18/06
San Ramon, CA 94583-4634	Client P.O.:	Date Analyzed: 05/20/06

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0605386

Lab ID	0605386-006A
Client ID	B2-b
Matrix	Soil

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

Surrogate Recoveries (%)			
%SS1:	82	%SS2:	100
%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; 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.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

ENGEO Incorporated	Client Project ID: #6907.1.002.04; M Street Parcel, Livermore	Date Sampled: 05/18/06
		Date Received: 05/18/06
2010 Crow Canyon Place, Ste 250	Client Contact: Shawn Munger	Date Extracted: 05/18/06
San Ramon, CA 94583-4634	Client P.O.:	Date Analyzed: 05/19/06

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0605386

Lab ID	0605386-007A
Client ID	B2-c
Matrix	Soil

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

Surrogate Recoveries (%)			
%SS1:	93	%SS2:	99
%SS3:	104		

Comments:

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

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

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

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

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Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

ENGEO Incorporated	Client Project ID: #6907.1.002.04; M Street Parcel, Livermore	Date Sampled: 05/18/06
2010 Crow Canyon Place, Ste 250		Date Received: 05/18/06
	Client Contact: Shawn Munger	Date Extracted: 05/18/06
San Ramon, CA 94583-4634	Client P.O.:	Date Analyzed: 05/19/06

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0605386

Lab ID	0605386-009A
Client ID	B3-a
Matrix	Soil

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

Surrogate Recoveries (%)			
%SS1:	94	%SS2:	99
%SS3:	106		

Comments:

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

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

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

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

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

ENGEO Incorporated	Client Project ID: #6907.1.002.04; M Street Parcel, Livermore	Date Sampled: 05/18/06
		Date Received: 05/18/06
2010 Crow Canyon Place, Ste 250	Client Contact: Shawn Munger	Date Extracted: 05/18/06
San Ramon, CA 94583-4634	Client P.O.:	Date Analyzed: 05/19/06

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0605386

Lab ID	0605386-010A
Client ID	B3-b
Matrix	Soil

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

Surrogate Recoveries (%)

%SS1:	93	%SS2:	98
%SS3:	105		

Comments:

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

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

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

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

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Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR E418.1

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0605386

EPA Method: E418.1	Extraction: SW3550_TRPH	BatchID: 21761	Spiked Sample ID: 0605360-002A

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	LCS / LCSD
TRPH	ND	20.8	125	125	0	111	111	0	70 - 130	70 - 130
%SS:	100	100	110	110	0	95	96	1.05	70 - 130	70 - 130

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

NONE

BATCH 21761 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0605386-001A	5/18/06 10:02 AM	5/18/06	5/19/06 10:46 AM	0605386-002A	5/18/06 9:59 AM	5/18/06	5/19/06 10:51 AM
0605386-003A	5/18/06 10:08 AM	5/18/06	5/19/06 10:56 AM	0605386-005A	5/18/06 9:41 AM	5/18/06	5/19/06 11:01 AM
0605386-006A	5/18/06 9:35 AM	5/18/06	5/19/06 11:06 AM	0605386-007A	5/18/06 9:38 AM	5/18/06	5/19/06 11:11 AM
0605386-009A	5/18/06 10:28 AM	5/18/06	5/19/06 11:16 AM	0605386-010A	5/18/06 10:38 AM	5/18/06	5/19/06 11:21 AM

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

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

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

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

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

surrogate diluted out of range.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0605386

EPA Method: SW8260B **Extraction: SW5030B** **BatchID: 21762** **Spiked Sample ID: 0605360-002A**

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	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	0.050	96.5	98.5	2.05	105	107	1.78	70 - 130	70 - 130
Benzene	ND	0.050	114	115	0.971	119	117	1.13	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	0.25	119	110	8.06	114	99.8	13.7	70 - 130	70 - 130
Chlorobenzene	ND	0.050	91.8	90	1.95	95.4	95.5	0.109	70 - 130	70 - 130
1,2-Dibromoethane (EDB)	ND	0.050	118	116	1.49	119	118	0.935	70 - 130	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	0.050	101	103	1.68	110	114	3.58	70 - 130	70 - 130
1,1-Dichloroethene	ND	0.050	109	105	3.82	115	118	2.46	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	0.050	112	111	1.18	117	118	0.916	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	0.050	97.7	98.8	1.10	106	109	2.95	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	0.050	105	107	2.17	115	119	2.91	70 - 130	70 - 130
Toluene	ND	0.050	103	98.4	4.57	105	105	0	70 - 130	70 - 130
Trichloroethene	ND	0.050	80.5	82.8	2.90	88.7	90.2	1.72	70 - 130	70 - 130
%SS1:	90	0.050	107	106	0.604	106	105	0	70 - 130	70 - 130
%SS2:	90	0.050	97	92	5.16	93	92	1.48	70 - 130	70 - 130
%SS3:	99	0.050	103	101	2.22	101	101	0	70 - 130	70 - 130

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

BATCH 21762 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0605386-001A	5/18/06 10:02 AM	5/18/06	5/20/06 6:03 AM	0605386-002A	5/18/06 9:59 AM	5/18/06	5/20/06 6:47 AM
0605386-003A	5/18/06 10:08 AM	5/18/06	5/20/06 7:30 AM	0605386-005A	5/18/06 9:41 AM	5/18/06	5/20/06 8:14 AM
0605386-006A	5/18/06 9:35 AM	5/18/06	5/20/06 8:58 AM	0605386-007A	5/18/06 9:38 AM	5/18/06	5/19/06 5:28 AM
0605386-009A	5/18/06 10:28 AM	5/18/06	5/19/06 6:10 AM	0605386-010A	5/18/06 10:38 AM	5/18/06	5/19/06 6:52 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.

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

DHS Certification No. 1644

QA/QC Officer