East Bay Regional Park District

2950 PERALTA OAKS COURT P.O. BOX 5381 OAKLAND CALIFORNIA 94605-0381
T. 1 888 EBPARKS F. 510 569 4319 TDD. 510 633 0460 WWW.EBPARKS.ORG

RECEIVED

2:38 pm, Dec 29, 2009

Alameda County
Environmental Health

December 28, 2009

Mr. Mark Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

SUBJECT: Additional Environmental Site Investigation of Diesel Release from an Above Ground Storage Tank (AST) Located at the Lake Chabot Marine Maintenance Yard, 17930 Lake Chabot Road, Castro Valley, California

Dear Mr. Detterman:

Please find enclosed the subject report prepared for the East Bay Regional Park District by Kleinfelder. I declare, under penalty of perjury, that information and/or recommendations contained in the attached report is true and correct to the best of my knowledge.

If you have any comments or questions, please contact Jim Lehrman of Kleinfelder at (925) 484-1700 or the undersigned at (510) 544-2560.

Sincerely,

Jeffrey S. LeBow
Contract / Encroachment Permit Supervisor
East Bay Regional Park District

cc: Mr. Jim Lehrman, Kleinfelder

November 24, 2009
File No. 104484

Mr. Jeff LeBow
East Bay Regional Park District
2950 Peralta Oaks Court
Oakland, California 94605

SUBJECT: Additional Environmental Site Investigation of Diesel Release from an Above Ground Storage Tank (AST) Located at the Lake Chabot Marine Maintenance Yard, 17930 Lake Chabot Road, Castro Valley, California

Dear Mr. LeBow:

This letter report presents the results of the Additional Phase II Environmental Site Investigation (ESI) performed at the East Bay Regional Park District (EBRPD) facility located at 17930 Lake Chabot Road, in Castro Valley, California (the Site). A Site Vicinity Map (Plate 1) and a Site Plan (Plate 2) are attached. This work was performed in general accordance with the *Work Plan for Environmental Site Investigation* prepared by Kleinfelder and dated June 15, 2009, and the *Addendum to the Work Plan for Environmental Site Investigation* prepared by Kleinfelder and dated September 21, 2009, prepared in response to technical comments included in a letter to the City of Pleasanton from Alameda County Environmental Health dated August 14, 2009. Deviations from the Addendum to the Work Plan are described below.

Executive Summary

Field activities included advancement of six soil borings to collect soil samples. The borings were terminated in bedrock and groundwater was not encountered. The samples were analyzed by a California state-certified analytical laboratory and results were compared to Environmental Screening Levels (ESLs) to assess the extent of previously-detected concentrations of diesel range hydrocarbons in the soil at the site.

4670 Willow Road, Suite 100, Pleasanton, CA 94588-8587 **p |** 925.484.1700 **f** | 925.484.5838

Total petroleum hydrocarbons (TPH) in the diesel (TPHd) and motor oil (TPHmo) ranges were detected at concentrations below their ESLs in three soil samples collected from the vicinity of the former above ground storage tank (AST). TPH concentrations were below the laboratory reporting limit in the other seven soil samples collected at the Site on November 3, 2009.

Based on the analytical results, TPH concentrations detected in the vicinity of the former AST do not appear to be significant. Groundwater was not observed in the borings, and based on the soil sample analytical results and the fact that the borings were terminated in bedrock; it is unlikely that groundwater was impacted by the former AST. Therefore, Kleinfelder recommends no further action at the Site.

Purpose and Scope of Work

The work described in this report was performed at the request of Mr. Jeff LeBow of the EBRPD, in response to a letter from Alameda County Environmental Health (ACEH) dated April 2, 2009, and in accordance with *Kleinfelder's Addendum to the Work Plan for Environmental Site Investigation of a Diesel Release From an Above Ground Storage Tank (AST) Located at the Lake Chabot Maintenance Yard*, 17930 Lake Chabot Road, Castro Valley, California, dated September 21 2009. The scope of work included advancement of six soil borings on the site, collection of ten discrete soil samples, analysis of samples by a state-certified analytical laboratory, and preparation of this report.

Deviations from the Work Plan

Due to existing Site features in the work zone (including a grade change, structures, storage containers, concrete walkways, overhead power lines, and underground utilities) a limited access, track mounted Geoprobe 6600CPT drill rig was used at the Site. Using direct push methods, refusal was encountered at less than 16 feet bgs in the borings. The drill rig was equipped with four-inch diameter solid-stem augers. The rig was not equipped with hollow-stem augers and a modified California split spoon sampler. The augers were used on borings K-1, K-2, K-4, and K-6 to advance the borings to bedrock, where possible. Bedrock was encountered at depths ranging between three and ten feet below ground surface (bgs) in the borings; however, due to variations in surface elevation, bedrock appeared to be encountered at a consistent

KLEINFELDER 4670 Willow Road, Suite 100, Pleasanton, CA 94588-8587 **p |** 925.484.1700 **f |** 925.484.5838

elevation in the work zone. Groundwater was not encountered in the boreholes and therefore, groundwater samples were not collected.

Site Description and Background

The Site is located at 17930 Lake Chabot Road in Castro Valley, California, on an access road, approximately 0.7 miles from Lake Chabot Road. The site is situated near the top of a ridge and the work area is somewhat terraced. Sandstone outcrops were observed in the vicinity of the soil boring locations.

Kleinfelder understands that in 2007, the EBRPD retained Decon Environmental Services to remove and dispose of one two-thousand gallon capacity diesel AST, and associated piping at the site. The AST was connected to the various buildings at the site through underground piping. The AST removal was permitted through the Alameda County Fire Department, Bureau of Fire Prevention. Three soil samples were collected using a hand auger from depths of two to three feet below ground surface (bgs) and the samples were analyzed for total petroleum hydrocarbons (TPH) as diesel (TPHd). Sample number 1, collected from beneath the tank valves had a concentration of 570 milligrams per kilogram (mg/kg) THPd. Samples 2 and 3, were collected along the removed underground pipe runs, had concentrations of 25 mg/kg and 67 mg/kg TPHd, respectively (See Plate 2 for Decon soil sample locations). The pipe trenches were reportedly immediately backfilled following removal. A report documenting Decon's activities dated August 2, 2007, was submitted to the ACEH, the lead regulatory agency.

Field Activities

Kleinfelder performed the field portion of this investigation on November 3, 2009. Precision Sampling (Precision) of Stockton, California, a state-licensed drilling contractor (C-57 license no. 636387), advanced six soil borings under the direction of Kleinfelder. Soil samples collected during this investigation were analyzed by McCampbell Analytical, Inc. of Pittsburg, California, a state-certified chemical testing laboratory (DHS ELAP certification no. 1644).

Soil Borings

Prior to drilling, Kleinfelder obtained a drilling permit from Alameda County Public Works Agency. A copy of the drilling permit is included in Appendix A. Kleinfelder notified

KLEINFELDER 4670 Willow Road, Suite 100, Pleasanton, CA 94588-8587 **p |** 925.484.1700 **f |** 925.484.5838

Underground Service Alert more than 48 hours prior to drilling, as required by law, to notify local utilities with underground facilities in the vicinity of the investigation area (USA ticket no. 0336575). Kleinfelder retained a private utility locator to clear the boring locations using geophysical methods. The soil boring locations are shown on Plate 2.

Precision provided drilling services for six boring locations using a track-mounted Geoprobe 6625CPT (direct push) drill rig employing a macro-core sampling system and capable of advancing four-inch solid-stem augers. The direct push rig advances a steel tube at five-foot intervals using a hydraulic ram and hydraulic percussion hammer. The steel tube has an outside diameter of 2 inches and contains an interchangeable acetate liner attached to a steel rod, which allows for a continuous sample through the extent of the borehole. The auger turns at approximately 60 revolutions per minute (rpm).

The six soil borings (K-1 through K-6) were advanced to depths of between three to ten feet bgs to collect soil samples, before encountering refusal. Due to variations in surface elevation, bedrock appeared to be encountered at a consistent elevation in the work zone. Soil samples were collected in acetate liners and inspected for indications of staining and/or odors. The soil borings were logged in the field using the Unified Soil Classification System. The soil boring logs are included in Appendix B.

Soil samples were collected at depths of 4 and 8 feet bgs from borings K-1, K-2, and K-3; at depths of 4 and 6 feet bgs from boring K-4, at a depth of six feet bgs from boring K-5 and at a depth of three feet bgs from boring K-6. Groundwater was not observed in soil borings K-1 through K-6. The soil samples were screened for organic vapors using a photo-ionization gas detector (PID). Staining and odors were not observed in the soil borings at the Site. A PID reading of 4.8 parts per million (ppm) was observed in soil adjacent to sample K-3-8. Soil samples were sealed on both ends with Teflon sheets and plastic end caps and transferred in a cooler chilled with water-based ice to McCampbell Analytical, Inc. under chain-of-custody protocol for analysis. Additional samples collected were submitted to the laboratory and placed on hold. Soil sampling equipment was decontaminated between sample intervals and locations.

After drilling at the Site had been completed, the boreholes were backfilled with neat cement grout and abandoned according to drilling permit requirements.

KLEINFELDER 4670 Willow Road, Suite 100, Pleasanton, CA 94588-8587 **p |** 925.484.1700 **f |** 925.484.5838

Decontamination Procedures

Non-expendable sampling equipment was decontaminated prior to each use using a laboratory-grade detergent solution followed by a two-stage rinse. New expendable equipment was used whenever possible.

Investigation-Derived Waste Management

Waste soil cuttings and decontamination rinsates generated during this investigation were placed in a DOT 17H 55-gallon steel drum and left on site.

Chemical Analysis

Soil and groundwater samples were submitted to McCampbell Analytical, Inc., for the following analyses:

- Volatile Organic Compounds (VOCs) including fuel oxygenates, using EPA Method 8260; and
- Total Petroleum Hydrocarbons as diesel (TPHd) and motor oil (TPHmo) using EPA Method 8015.

Results

The analytical results for the soil samples collected on November 3, 2009, are summarized on Table 1. The analytical report from McCampbell Analytical, Inc. is included in Appendix C.

Analytical results were compared to ESLs established by the San Francisco Bay Regional Water Quality Control Board (Water Board). For the purposes of this investigation, results were compared to ESLs for shallow soil in residential areas where groundwater is a current or potential source of drinking water. Water Board ESLs do not represent regulatory action levels for contaminants; however they provide a guideline from which to assess risk factors associated with the presence of chemicals in soil, and groundwater.

Soil

VOCs were not detected at or above laboratory reporting limits in the soil samples collected on November 3, 2009.

KLEINFELDER 4670 Willow Road, Suite 100, Pleasanton, CA 94588-8587 **p |** 925.484.1700 **f |** 925.484.5838

TPHd was detected in soil samples K-1-4, K-3-4 and K-3-8 at concentrations of 1.4 mg/kg, 55 mg/kg and 3.2 mg/kg respectively. This is below the residential land use ESL of 83 mg/kg for TPHd. TPHmo was detected in soil sample K-3-4 at a concentration of 44 mg/kg, which is below the residential land use ESL of 370 mg/kg. TPHd, and TPHmo were not detected at or above laboratory reporting limits in the remaining soil samples collected on November 3, 2009.

Conclusions and Recommendations

Based on the analytical results, TPH concentrations detected in the vicinity of the former AST do not appear to be significant. Groundwater was not observed in the borings, and based on the soil sample analytical results and the fact that the borings terminated in bedrock, it is unlikely that groundwater was impacted by the former AST. Therefore, Kleinfelder recommends no further action at the Site.

Limitations

Kleinfelder prepared this report in accordance with generally accepted standards of care that exist in the Bay Area at this time. This report may be used only by the EBRPD (Client) and only for the purposes stated, within a reasonable time from its issuance, but in no event later than one (1) year from the date of the report. All information gathered by Kleinfelder is considered confidential and will be released only upon written authorization of the Client or as required by law. Non-compliance with any of these requirements by the Client or anyone else, unless specifically agreed to in advance by Kleinfelder in writing, will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party and the Client agrees to defend, indemnify, and hold harmless Kleinfelder from any claim or liability associated with such unauthorized use or non-compliance.

Kleinfelder offers various levels of investigative and engineering services to suit the varying needs of different clients. It should be recognized that definition and evaluation of geologic and environmental conditions are a difficult and inexact science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present due to the limitations of data from field studies. Although risk can never be eliminated, more-detailed and extensive studies yield more information, which may help understand and manage the level of risk. Since

KLEINFELDER 4670 Willow Road, Suite 100, Pleasanton, CA 94588-8587 **p |** 925.484.1700 **f |** 925.484.5838

detailed study and analysis involves greater expense, our clients participate in determining levels of service that provide adequate information for their purposes at acceptable levels of risk. More extensive studies, including subsurface studies or field tests, should be performed to reduce uncertainties. Acceptance of this report will indicate that the Client has reviewed the document and determined that it does not need or want a greater level of service than provided.

During the course of the performance of Kleinfelder's services, hazardous materials may have been discovered. Kleinfelder assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury that results from pre-existing hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials. Nothing contained in this report should be construed or interpreted as requiring Kleinfelder to assume the status of an owner, operator, or generator, or person who arranges for disposal, transport, storage, or treatment of hazardous materials within the meaning of any governmental statute, regulation, or order. The Client is solely responsible for directing notification of all governmental agencies, and the public at large, of the existence, release, treatment, or disposal of any hazardous materials observed at the project site, either before or during performance of Kleinfelder's services. The Client is responsible for directing all arrangements to lawfully store, treat, recycle, dispose, or otherwise handle hazardous materials, including cuttings and samples resulting from Kleinfelder's services.

Regulations and professional standards applicable to Kleinfelder's services are continually evolving. Techniques are, by necessity, often new and relatively untried. Different professionals may reasonably adopt different approaches to similar problems. As such, our services are intended to provide the Client with a source of professional advice, opinions, and recommendations. Our professional opinions and recommendations are based on our limited number of field observations and tests, collected, and performed in accordance with the generally accepted engineering practice that exists at the time and may depend on, and be qualified by, information gathered previously by others and provided to Kleinfelder by the Client. Consequently, no warranty or guarantee, expressed or implied, is intended or made.

KLEINFELDER 4670 Willow Road, Suite 100, Pleasanton, CA 94588-8587 **p |** 925.484.1700 **f |** 925.484.5838

Closing Remarks

We appreciate the opportunity to work with you on this project. If you have any questions regarding this letter report, please call Jim Lehrman at (925) 484-1700 extension 4520.

Respectfully submitted,

KLEINFELDER WEST, INC.

Jeffrey A. Gravesen, EIT
Staff Engineer

James A. Lehrman, PG, CHG
Senior Professional

REGISTERED GEOLOGIST
JAMES A. LEHRMAN
No. CHG 69
CERTIFIED HYDROGEOLOGIST
STATE OF CALIFORNIA

JAG/JAL/jmk

Cc: Mark Detterman, Alameda County Environmental Health

Attachments: Table 1 – Summary of Soil Analytical Results
Plate 1 – Site Vicinity Map
Plate 2 – Site Plan with Soil Boring Locations
Appendix A – Drilling Permit from Alameda County Public Works Agency
Appendix B – Soil Boring Logs
Appendix C– Laboratory Analytical Reports

KLEINFELDER 4670 Willow Road, Suite 100, Pleasanton, CA 94588-8587 p | 925.484.1700 f | 925.484.5838

TABLES

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
LAKE CHABOT MARINE MAINTEDANCE YARD
CASTRO VALLEY CALIFORNIA
NOVEMBER 24, 2009

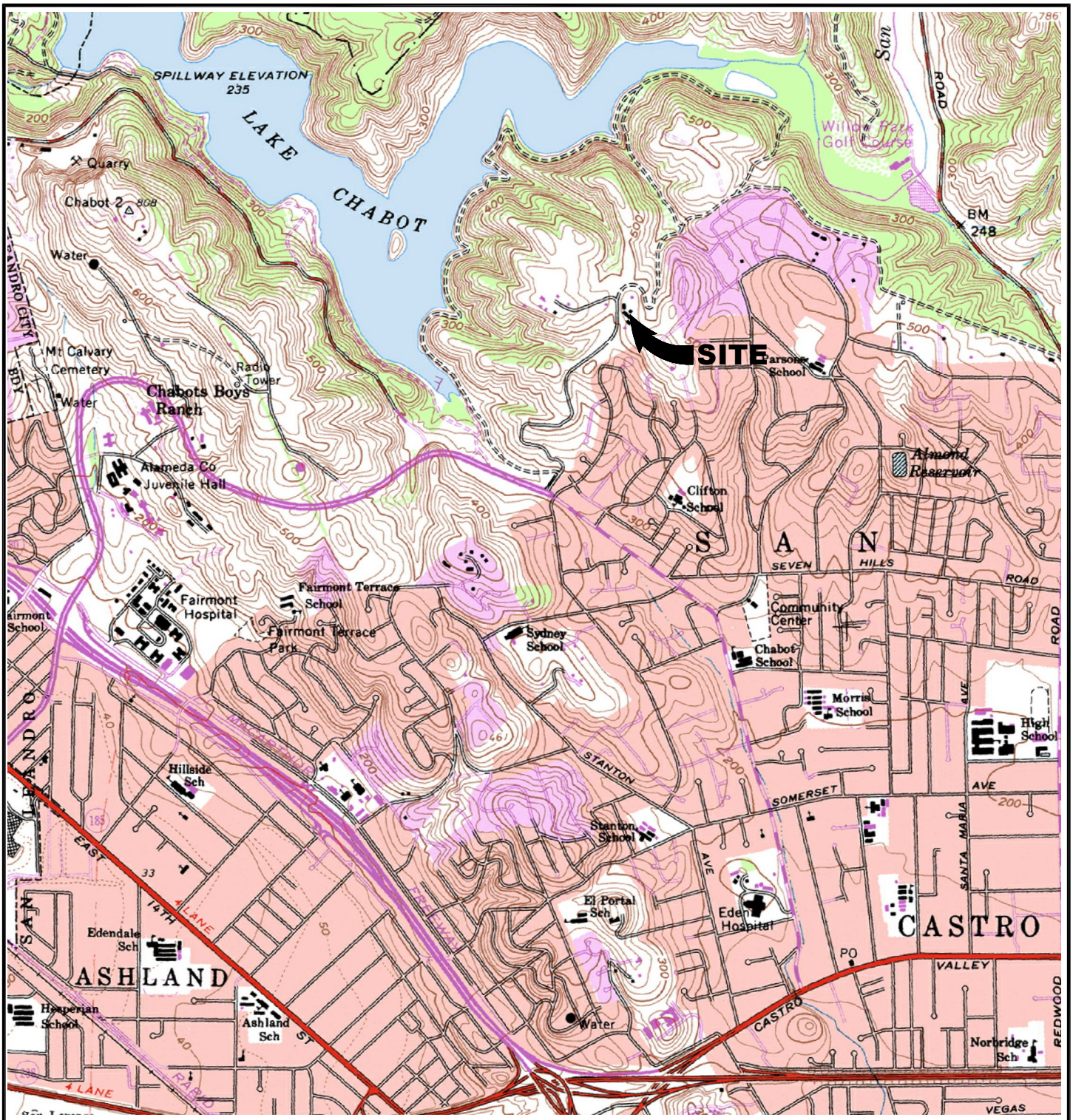
		Sample ID - Date - Depth										RWQCB ESLs[1]	
Analyte (mg/kg)	**Method**	**K-1-4 11/3/2009 Depth: 4 feet**	**K-1-8 11/3/2008 Depth: 8 feet**	**K-2-4 11/3/2009 Depth: 4 feet**	**K-2-8 11/3/2008 Depth: 8 feet**	**K-3-4 11/3/2009 Depth: 4 feet**	**K-3-8 11/3/2008 Depth: 8 feet**	**K-4-4 11/3/2009 Depth: 4 feet**	**K-4-6 11/3/2008 Depth: 6 feet**	**K-5-6 11/3/2009 Depth: 6 feet**	**K-6-3 11/3/2008 Depth: 3 feet**	**Residential Land Use**	**Commercial / Industiral Land Use**
Volatile Organic Compounds	8260B												
Benzene		ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.044	0.044
Toluene		ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	2.9	2.9
Ethylbenzene		ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	3.3	3.3
Total Xylenes		ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	2.3	2.3
Tetrachloroethylene(PCE)		ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.34	0.70
Trichloroethylene (TCE)		ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.46	0.46
Petroleum Hydrocarbons	8015B												
TPH-Diesel		1.4	ND(1.0)	ND(1.0)	ND(1.0)	55	3.2	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	83	83
TPH-Motor Oil		ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	44	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	370	2500

Notes:
Samples were analyzed by McCampbell Analytical, Inc of Pittsburg, California, a state-certified analytical laboratory.
Laboratory data met EPA and laboratory specifications for quality assurance and quality control.
[1] California Regional Water Quality Control Board, San Francisco Bay Region. *Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater, Volume 1: Summary Tier 1 Lookup Tables, Shallow Soils, Groundwater is Current or Potential Source of Drinking Water* , Interim Final, November 2007.

Acronyms/Abbreviations:

mg/kg - milligrams per kilogram
TPH - Total Petroleum Hydrocarbons
ESLs - Environmental Screening Levels
RWQCB - Regional Water Quality Control Board (San Francisco Bay Region)
ND - Not detected at or above laboratory reporting limit

PLATES



2000 1000 0 2000

APPROXIMATE SCALE (feet)

N

REFERENCE:
USGS 7.5 Minute Series (Topographic) Hayward Quadrangle, dated 1959 Photorevised 1980

KLEINFELDER
Bright People. Right Solutions.
www.kleinfelder.com

PROJECT NO.	104484
DRAWN:	NOV 2009
DRAWN BY:	JDS
CHECKED BY:	JG
FILE NAME:	VIC-PLAN.dwg

SITE VICINITY MAP

EAST BAY REGIONAL PARK DISTRICT
LAKE CHABOT MARINE MAINTENANCE YARD
17930 LAKE CHABOT ROAD
CASTRO VALLEY, CALIFORNIA

PLATE
1

ATTACHED IMAGES: Images: SITE-VIC.jpg Images: SITEPLAN.jpg
ATTACHED XREFS: XRef: Eng-A_8x11_P_StyleA
PLEASANTON, CA CAD FILE: L:\2009\09Projects\104484\GRAPHICs\WP\11-2009\ LAYOUT: SITE-VIC
PLOTTED: 16 Nov 2009, 12:10pm, jsala

30 15 0 30

APPROXIMATE SCALE (feet)

REFERENCE:
maps.google.com, 2006

N

LEGEND

- ⊕ SOIL SAMPLE LOCATION (By Decon, 7/07)
- ● SOIL BORING LOCATION
- - - - - - - - - FORMER PIPING
- ——————— PROPANE PIPING

NOTE: Locations are approximate.

KLEINFELDER
Bright People. Right Solutions.
www.kleinfelder.com

PROJECT NO.	104484
DRAWN:	NOV 2009
DRAWN BY:	JDS
CHECKED BY:	JG
FILE NAME:	VIC-PLAN.dwg

SITE PLAN

EAST BAY REGIONAL PARK DISTRICT
LAKE CHABOT MARINE MAINTENANCE YARD
17930 LAKE CHABOT ROAD
CASTRO VALLEY, CALIFORNIA

PLATE **2**

ATTACHED IMAGES: Images: SITE-VIC.jpg Images: SITEPLAN.jpg
ATTACHED XREFS: XRef: Eng-A_8x11_P_StyleA
PLEASANTON, CA CAD FILE: L:\2009\09Projects\104484\GRAPHICs\WP\11-2009\ LAYOUT: SITEPLAN
PLOTTED: 16 Nov 2009, 12:10pm, jsala

APPENDIX A

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 10/23/2009 By jamesy

Permit Numbers: W2009-0971
Permits Valid from 11/03/2009 to 11/03/2009

Application Id: 1256250661615
City of Project Site: Castro Valley
Site Location: East Bay Regional Parks District
Lake Chabot Marine Maintenance Yard
17930 Lake Chabot Road
Castro Valley, California
Project Start Date: 11/03/2009
Completion Date: 11/03/2009
Assigned Inspector: Contact Ron Smalley at (510) 670-5407 or ronaldws@acpwa.org

Applicant: Kleinfelder - James Lehrman
4670 Willow Rd, Ste. 100, Pleasanton, CA 94588
Phone: 925-484-1700 x4520

Property Owner: Jeff LeBow
2950 Peralta Oaks Court, Oakland, CA 94605
Phone: 510-544-2560

Client: ** same as Property Owner **

Contact: Jeff Gravesen
Phone: 925-484-1700 x4518
Cell: 925-580-8302

Total Due: $265.00
Receipt Number: WR2009-0391 **Total Amount Paid:** $265.00
Payer Name : Kleinfelder Pleasanton Paid By: MC **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 6 Boreholes
Driller: Precision Sampling, Inc. - Lic #: 636387 - Method: DP **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2009-0971	10/23/2009	02/01/2010	6	2.00 in.	16.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities

or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

5. Applicant shall contact Ron Smalley for an inspection time at 510-670-5407 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

7. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

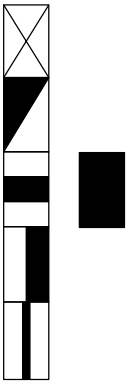
8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX B

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS		LTR	ID	DESCRIPTION
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY	GW		Well-graded gravels or gravel with sand, little or no fines.
		GP		Poorly-graded gravels or gravel with sand, little or no fines.
		GM		Silty gravels, silty gravel with sand mixture.
		GC		Clayey gravels, clayey gravel with sand mixture.
	SAND AND SANDY	SW		Well-graded sands or gravelly sands, little or no fines.
		SP		Poorly-graded sands or gravelly sands, little or no fines.
		SM		Silty sand.
		SC		Clayey sand.

MAJOR DIVISIONS		LTR	ID	DESCRIPTION
FINE GRAINED SOILS	SILTS AND CLAYS	ML		Inorganic silts and very fine sands, rock flour or clayey silts with slight plasticity.
		CL		Inorganic lean clays of low to medium plasticity, gravelly clays, sandy clays, silty clays.
		OL		Organic silts and organic silt-clays of low plasticity.
	SILTS AND CLAYS	MH		Inorganic elastic silts, micaceous or diatomaceous or silty soils.
		CH		Inorganic fat clays (high plasticity).
		OH		Organic clays of medium high to high plasticity.
HIGHLY ORGANIC SOILS		Pt		Peat and other highly organic soils.



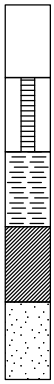
Geoprobe, Direct Push Sample

Large Bore Discrete Soil Sampler, 1.5 in. O.D., 1.12 in. I.D.

Modified California Sampler, 2.5 in. O.D., 2 in. I.D.

California Sampler, 3.0 in. dia.

Shelby Tube 3.0 inch O.D.



Blank casing

Screened casing

Cement grout

Bentonite

Sand pack or gravel pack

Sharp Contact (observed)

Inferred Contact (contact not observed)

Gradational Contact (observed)

Water level observed in boring

Stabilized water level

OVA	Organic Vapor Analyzer
PID	Total organic vapors (parts per million) measured by a photo-ionization device
FID	Total Organic vapors (parts per million) measured by a flame-ionization device
NA	Not Applicable
NFWE	No free water encountered

Notes: Blow counts represent the number of blows a 140-pound hammer falling 30 inches required to drive a sampler through the last 12 inches of an 18 inch penetration.

The lines separating strata on the logs represent approximate boundaries only. The actual transition may be gradual. No warranty is provided as to the continuity of soil strata between borings. Logs represent the soil section observed at the boring location on the date of drilling only.

References to plasticity of cohesive soils are based on qualitative field observations and not on quantative field or laboratory tests. Qualitative soil plasticity is noted solely to aid in stratigraphic correlation and is not intended for geotechnical characterization of soils.

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO. *104484*

BORING LOG LEGEND

CASTRO VALLEY, CALIFORNIA
EAST BAY REGIONAL PARK DISTRICT
LAKE CHABOT MARINE MAINTENANCE YARD
17930 LAKE CHABOT ROAD

PLATE

B-0

11/16/2009 12:07:16 PM

Date Completed:	**11/3/09**	*Drilling method:*	**Direct Push/Auger**
Logged By:	**J. Gravesen**		**Driller: Precision Sampling; Drill Rig 6625 CPT**
Total Depth:	**10.5 ft**	*Hammer Wt:*	**None**
North:	**37.72040**	*Notes:*	**Drilled on soil**
East:	**-122.09508**	*Surface Elevation:*	**Estimated feet (MSL)**

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
1					0.0		**SANDY CLAY (CL)** - dark olive brown, moist, soft, non plastic	
2					0.0			
3					0.0			
4	K-1-4				0.0		**SAND with CLAY (SP-SC)** - light olive-brown, moist, loose, poorly graded fine sand	
5				3'	0.0		**CLAY (CL)** - light olive-brown, moist, firm, non plastic	
6					0.0		**CLAY with FINE SAND (CL)** - light olive-brown, moist, soft	
7					0.0			
8	K-1-8			2'	0.5			
9				0.5'	1.1			Refusal at 9 feet Auger to 10 feet
10	K-1-10						**SANDSTONE** - very pale brown (7/3 10YR), dry, very dense	
11							Boring terminated at approx. 10.5 feet below ground surface, because of refusal. Backfilled with neat cement grout	
12								
13								
14								
15								

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO. **104484**

LOG OF BORING NO. K-1

CASTRO VALLEY, CALIFORNIA
EAST BAY REGIONAL PARK DISTRICT
LAKE CHABOT MARINE MAINTENANCE YARD
17930 LAKE CHABOT ROAD

Appendix

B-1

L:\2009\09PROJECTS\104484\104484.GPJ

11/16/2009 11:51:58 AM

Date Completed:	**11/3/09**	*Drilling method:*	**Direct Push/Auger**
Logged By:	**J. Gravesen**		**Driller: Precision Sampling; Drill Rig 6625 CPT**
Total Depth:	**10.5 ft**	*Hammer Wt:*	**None**
North:	**37.72039**	*Notes:*	**Drilled on soil**
East:	**-122.09501**	*Surface Elevation:*	**Estimated feet (MSL)**

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
1					0.3		**SANDY CLAY (CL)** - dark grayish-brown, moist, soft, non plastic	
2							**SAND with CLAY (SP-SC)** - very pale-brown, dry, dense, poorly graded fine sand	
3					0.5			
4	K-2-4			3'				
5								
6					0.3			
7								Auger for 35 minutes to get to 7 feet. Left hole open, will return if time
8	K-2-8			3'	0.3			
9							**CLAY (CL)** - yellowish-brown with very dark brown striations, dry, hard, non plastic	
10					0.5			
							CLAY with FINE SAND (CL) - yellowish-brown, dry, hard, non plastic	
11				3'			Boring terminated at approx. 10.5 feet below ground surface, because of refusal. Backfilled with neat cement grout	
12								
13								
14								
15								

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO. **104484**

LOG OF BORING NO. K-2

CASTRO VALLEY, CALIFORNIA
EAST BAY REGIONAL PARK DISTRICT
LAKE CHABOT MARINE MAINTENANCE YARD
17930 LAKE CHABOT ROAD

Appendix

B-2

L:\2009\09PROJECTS\104484\104484.GPJ

11/16/2009 11:51:58 AM

Date Completed:	**11/3/09**	*Drilling method:*	**Direct Push/Auger**
Logged By:	**J. Gravesen**		**Driller: Precision Sampling; Drill Rig 6625 CPT**
Total Depth:	**10.0 ft**	*Hammer Wt:*	**None**
North:	**37.72037**	*Notes:*	**Drilled on soil**
East:	**-122.09506**	*Surface Elevation:*	**Estimated feet (MSL)**

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
1					0.1		**SAND with CLAY (SP-SC)** - dark brown, moist, dense, poorly graded sand	
2					0.3			
3								
4	K-3-4			3'	0.4			
5					0.2		**SAND (SP)** - yellowish-brown, moist, dense, poorly graded fine sand	
6								
7	K-3-7			3'	3.4 1.6			
8	K-3-8				4.8			
9				2'				
10				1'			**SANDSTONE** - very pale brown (7/6 10YR), dry, very dense Boring terminated at approx. 10 feet below ground surface, because of refusal. Backfilled with neat cement grout	
11								
12								
13								
14								
15								

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO. **104484**

LOG OF BORING NO. K-3

CASTRO VALLEY, CALIFORNIA
EAST BAY REGIONAL PARK DISTRICT
LAKE CHABOT MARINE MAINTENANCE YARD
17930 LAKE CHABOT ROAD

Appendix

B-3

L:\2009\09PROJECTS\104484\104484.GPJ

11/16/2009 11:51:58 AM

Date Completed:	**11/3/09**	*Drilling method:*	**Direct Push/Auger**
Logged By:	**J. Gravesen**		**Driller: Precision Sampling; Drill Rig 6625 CPT**
Total Depth:	**8.0 ft**	*Hammer Wt:*	**None**
North:	**37.72041**	*Notes:*	**Drilled on soil**
East:	**-122.09505**	*Surface Elevation:*	**Estimated feet (MSL)**

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
0					0.1		**SANDY CLAY (CL)** - very dark brown, moist, hard, non plastic	
1								
					0.4		**SAND with CLAY (SP-SC)** - dark yellowish-brown, moist, firm, poorly graded fine sand	
2								
					0.3			
3								
	K-4-4			3'	0.4			
4					0.5		**CLAY (CL)** - yellowish-brown, dry, firm, non plastic	
					0.3			
5					0.3			
	K-4-6			3'				
6								
				6"	0.1			
7								Spin augers to 8 feet & direct push to 8 feet
				6"	0.4		**SANDSTONE** - very pale brown (7/3 10YR), dry, very dense	
8							Boring terminated at approx. 8 feet below ground surface, because of refusal. Backfilled with neat cement grout	
9								
10								
11								
12								
13								
14								
15								

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO. **104484**

LOG OF BORING NO. K-4

CASTRO VALLEY, CALIFORNIA
EAST BAY REGIONAL PARK DISTRICT
LAKE CHABOT MARINE MAINTENANCE YARD
17930 LAKE CHABOT ROAD

Appendix

B-4

L:\2009\09PROJECTS\104484\104484.GPJ

11/16/2009 11:51:59 AM

Date Completed:	**11/3/09**	*Drilling method:*	**Direct Push/Auger**
Logged By:	**J. Gravesen**		**Driller: Precision Sampling; Drill Rig 6625 CPT**
Total Depth:	**6.5 ft**	*Hammer Wt:*	**None**
North:	**37.72031**	*Notes:*	**Drilled on soil**
East:	**-122.09510**	*Surface Elevation:*	**Estimated feet (MSL)**

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
0					0.0		**SANDY CLAY (CL)** - dark yellowish-brown, moist, firm, fine grained sand, non plastic	
1							**SAND with CLAY (SP-SC)** - dark yellowish-brown, moist, dense	
2					0.0			
3					0.0			
4	K-5-4			2'	0.1			
5					0.0			
6	K-5-6			6"	0.0		**SANDSTONE** - very pale brown (7/6 10YR), dry, very dense	
7					0.0		Boring terminated at approx. 6.5 feet below ground surface, because of refusal. Backfilled with neat cement grout	
8								
9								
10								
11								
12								
13								
14								
15								

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO. **104484**

LOG OF BORING NO. K-5

CASTRO VALLEY, CALIFORNIA
EAST BAY REGIONAL PARK DISTRICT
LAKE CHABOT MARINE MAINTENANCE YARD
17930 LAKE CHABOT ROAD

Appendix

B-5

L:\2009\09PROJECTS\104484\104484.GPJ

11/16/2009 11:51:59 AM

Date Completed:	**11/3/09**	*Drilling method:*	**Direct Push/Auger**
Logged By:	**J. Gravesen**		**Driller: Precision Sampling; Drill Rig 6625 CPT**
Total Depth:	**3.5 ft**	*Hammer Wt:*	**None**
North:	**37.72050**	*Notes:*	**Drilled on soil**
East:	**-122.09514**	*Surface Elevation:*	**Estimated feet (MSL)**

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
1							**SANDY CLAY (CL)** - dark yellowish-brown, moist, firm, fine grained sand, non plastic	
2								
3	K-6-3						**SANDSTONE** - very pale brown (7/3 10YR), dry, very dense	
							Boring terminated at approx. 3 feet below ground surface, because of refusal. Backfilled with neat cement grout	Advance augers to approximately 3 feet in 30 minutes. Remove augers & sample with direct push
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO. **104484**

LOG OF BORING NO. K-6

CASTRO VALLEY, CALIFORNIA
EAST BAY REGIONAL PARK DISTRICT
LAKE CHABOT MARINE MAINTENANCE YARD
17930 LAKE CHABOT ROAD

Appendix

B-6

L:\2009\09PROJECTS\104484\104484.GPJ

11/16/2009 11:51:59 AM

APPENDIX C

McCampbell Analytical, Inc.
"When Quality Counts"

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

Kleinfelder, Inc. 4670 Willow Road, #100 Pleasanton, CA 94566	Client Project ID: #104484; EBP	Date Sampled: 11/03/09
		Date Received: 11/04/09
	Client Contact: Jim Lehrman	Date Reported: 11/10/09
	Client P.O.:	Date Completed: 11/06/09

WorkOrder: 0911090

November 10, 2009

Dear Jim:

Enclosed within are:

1) The results of the **10** analyzed samples from your project: **#104484; EBP,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

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

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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

KLEINFELDER
Bright People. Right Solutions.

0911090

PROJECT NO.	PROJECT NAME
104484	EBP

L.P. NO. (PO. NO.)

SAMPLERS: (Signature/Number)
JGravesen

RECEIVING LAB:
McCampbell

INSTRUCTIONS/REMARKS
Std TAT

	DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX	NO. OF CON-TAINERS	TYPE OF CON-TAINERS	ANALYSIS: TPH d + mo 8015	VOC inc Oxygenates 8260
1	11/3/09	9:45	K-1-4	Soil	1	Tube	X	X
2		10:00	K-1-8				X	X
3		11:15	K-2-4				X	X
4		11:35	K-2-8				X	X
5		1300	K-3-4				X	X
6		1315	K-3-7					Hold
7		1330	K-3-8				X	X
8		1340	K-4-4				X	X
9		1400	K-4-6				X	X
10		1440	K-5-4					HOLD
11		1455	K-5-6				X	X
12		1515	K-6-3				X	X
13								
14								
15								
16								
17								
18								
19								
20								

ICE/T* 8.6
GOOD CONDITION ___ APPROPRIATE
HEAD SPACE ABSENT ___ CONTAINERS ___
DECHLORINATED IN LAB ___ PRESERVED IN LAB ___
VOAS | O&G | METALS | OTHER
PRESERVATION

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	11/4/09 1237	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	11/4/09 1330	
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)

Instructions/Remarks:
Email results to
JLehrman@kleinfelder.com
JGravesen@ " "

Send Results To:
Kleinfelder
4070 Willow Rd Suite #100
Pleasanton Ca 94588
Attn:
Jim Lehrman

ENV-02 REV 05/08)

White – Sampler Canary – Return Copy To Shipper Pink – Lab Copy

CHAIN OF CUSTODY

COC № 11504

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0911090 **ClientCode: KFP**

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

Report to:
Jim Lehrman
Kleinfelder, Inc.
4670 Willow Road, #100
Pleasanton, CA 94566
(925) 484-1700 FAX (925) 484-5838

Email: jlehrman@kleinfelder.com
cc:
PO:
ProjectNo: #104484; EBP

Bill to:
Accounts Payable
Kleinfelder Inc.
4670 Willow Road, #100
Pleasanton, CA 94566
SEND HARDCOPY

Requested TAT: 5 days

Date Received: **11/04/2009**
Date Printed: **11/04/2009**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0911090-001	K-1-4	Soil	11/3/2009 9:45	☐	A	A										
0911090-002	K-1-8	Soil	11/3/2009 10:00	☐	A	A										
0911090-003	K-2-4	Soil	11/3/2009 11:15	☐	A	A										
0911090-004	K-2-8	Soil	11/3/2009 11:35	☐	A	A										
0911090-005	K-3-4	Soil	11/3/2009 13:00	☐	A	A										
0911090-007	K-3-8	Soil	11/3/2009 13:30	☐	A	A										
0911090-008	K-4-4	Soil	11/3/2009 13:40	☐	A	A										
0911090-009	K-4-6	Soil	11/3/2009 14:00	☐	A	A										
0911090-011	K-5-6	Soil	11/3/2009 14:55	☐	A	A										
0911090-012	K-6-3	Soil	11/3/2009 15:15	☐	A	A										

Test Legend:

1	8260B_S	2	TPH(DMO)_S	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

Comments:

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

McCampbell Analytical, Inc.
"When Quality Counts"

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

Sample Receipt Checklist

Client Name: **Kleinfelder, Inc.**

Date and Time Received: **11/4/2009 1:29:22 PM**

Project Name: **#104484; EBP**

Checklist completed and reviewed by: Maria Venegas

WorkOrder N°: **0911090** Matrix Soil

Carrier: Benjamin Yslas (MAI Courier)

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 8.6°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

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

Client contacted: Date contacted: Contacted by:

Comments:

McCampbell Analytical, Inc.
"When Quality Counts"

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

Kleinfelder, Inc.	Client Project ID: #104484; EBP	Date Sampled: 11/03/09
		Date Received: 11/04/09
4670 Willow Road, #100	Client Contact: Jim Lehrman	Date Extracted: 11/04/09
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 11/04/09

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0911090

Lab ID	0911090-001A
Client ID	K-1-4
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	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	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	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
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	0.004	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	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	100	%SS2:	110
%SS3:	109		

Comments:

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

ND means not detected above the reporting limit/method detection 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.

McCampbell Analytical, Inc.
"When Quality Counts"

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

Kleinfelder, Inc.	Client Project ID: #104484; EBP	Date Sampled: 11/03/09
		Date Received: 11/04/09
4670 Willow Road, #100	Client Contact: Jim Lehrman	Date Extracted: 11/04/09
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 11/04/09

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0911090

Lab ID	0911090-002A
Client ID	K-1-8
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	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	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	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
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	0.004	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	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:	101	%SS2:	109
%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/method detection 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.

McCampbell Analytical, Inc.
"When Quality Counts"

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

Kleinfelder, Inc.	Client Project ID: #104484; EBP	Date Sampled: 11/03/09
		Date Received: 11/04/09
4670 Willow Road, #100	Client Contact: Jim Lehrman	Date Extracted: 11/04/09
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 11/04/09

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0911090

Lab ID	0911090-003A
Client ID	K-2-4
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	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	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	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
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	0.004	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	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	100	%SS2:	110
%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/method detection 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.

McCampbell Analytical, Inc.
"When Quality Counts"

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

Kleinfelder, Inc.	Client Project ID: #104484; EBP	Date Sampled: 11/03/09
		Date Received: 11/04/09
4670 Willow Road, #100	Client Contact: Jim Lehrman	Date Extracted: 11/04/09
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 11/04/09

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0911090

Lab ID	0911090-004A
Client ID	K-2-8
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	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	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	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
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	0.004	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	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	100	%SS2:	111
%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/method detection 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.

McCampbell Analytical, Inc.
"When Quality Counts"

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

Kleinfelder, Inc.	Client Project ID: #104484; EBP	Date Sampled: 11/03/09
		Date Received: 11/04/09
4670 Willow Road, #100	Client Contact: Jim Lehrman	Date Extracted: 11/04/09
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 11/04/09

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0911090

Lab ID	0911090-005A
Client ID	K-3-4
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	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	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	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
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	0.004	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	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:	98	%SS2:	111
%SS3:	102		

Comments:

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

ND means not detected above the reporting limit/method detection 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.

McCampbell Analytical, Inc.
"When Quality Counts"

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

Kleinfelder, Inc.	Client Project ID: #104484; EBP	Date Sampled: 11/03/09
		Date Received: 11/04/09
4670 Willow Road, #100	Client Contact: Jim Lehrman	Date Extracted: 11/04/09
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 11/05/09

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0911090

Lab ID	0911090-007A
Client ID	K-3-8
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	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	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	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
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	0.004	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	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:	95	%SS2:	112
%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/method detection 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.

McCampbell Analytical, Inc.
"When Quality Counts"

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

Kleinfelder, Inc.	Client Project ID: #104484; EBP	Date Sampled: 11/03/09
		Date Received: 11/04/09
4670 Willow Road, #100	Client Contact: Jim Lehrman	Date Extracted: 11/04/09
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 11/05/09

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0911090

Lab ID	0911090-008A
Client ID	K-4-4
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	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	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	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
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	0.004	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	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	97	%SS2:	111
%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/method detection 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.

McCampbell Analytical, Inc.
"When Quality Counts"

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

Kleinfelder, Inc.	Client Project ID: #104484; EBP	Date Sampled: 11/03/09
		Date Received: 11/04/09
4670 Willow Road, #100	Client Contact: Jim Lehrman	Date Extracted: 11/04/09
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 11/05/09

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0911090

Lab ID	0911090-009A
Client ID	K-4-6
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	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	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	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
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	0.004	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	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:	102	%SS2:	109
%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/method detection 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.

McCampbell Analytical, Inc.
"When Quality Counts"

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

Kleinfelder, Inc.	Client Project ID: #104484; EBP	Date Sampled: 11/03/09
		Date Received: 11/04/09
4670 Willow Road, #100	Client Contact: Jim Lehrman	Date Extracted: 11/04/09
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 11/05/09

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0911090

Lab ID	0911090-011A
Client ID	K-5-6
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	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	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	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
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	0.004	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	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:	101	%SS2:	110
%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/method detection 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.

McCampbell Analytical, Inc.
"When Quality Counts"

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

Kleinfelder, Inc.	Client Project ID: #104484; EBP	Date Sampled: 11/03/09
		Date Received: 11/04/09
4670 Willow Road, #100	Client Contact: Jim Lehrman	Date Extracted: 11/04/09
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 11/05/09

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0911090

Lab ID	0911090-012A
Client ID	K-6-3
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	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	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	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
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	0.004	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	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	99	%SS2:	111
%SS3:	103		

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/method detection 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.

McCampbell Analytical, Inc.
"When Quality Counts"

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

Kleinfelder, Inc.	Client Project ID: #104484; EBP	Date Sampled: 11/03/09
		Date Received: 11/04/09
4670 Willow Road, #100	Client Contact: Jim Lehrman	Date Extracted: 11/04/09
Pleasanton, CA 94566	Client P.O.:	Date Analyzed: 11/05/09-11/07/09

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3550C Analytical methods: SW8015B Work Order: 0911090

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
0911090-001A	K-1-4	S	1.4	ND	1	98	e2
0911090-002A	K-1-8	S	ND	ND	1	91	
0911090-003A	K-2-4	S	ND	ND	1	103	
0911090-004A	K-2-8	S	ND	ND	1	104	
0911090-005A	K-3-4	S	55	44	1	90	e3,e7
0911090-007A	K-3-8	S	3.2	ND	1	106	e2
0911090-008A	K-4-4	S	ND	ND	1	107	
0911090-009A	K-4-6	S	ND	ND	1	107	
0911090-011A	K-5-6	S	ND	ND	1	108	
0911090-012A	K-6-3	S	ND	ND	1	108	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	mg/Kg

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

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

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern
e3) aged diesel is significant
e7) oil range compounds are significant

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 46918 WorkOrder: 0911090

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 0911090-011A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	77.6	75.2	3.15	76.3	76.2	0.206	60 - 130	30	60 - 130	30
Benzene	ND	0.050	97.6	94.7	3.03	96.1	93.8	2.40	60 - 130	30	60 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	79.9	79.5	0.492	77.2	79	2.31	60 - 130	30	60 - 130	30
Chlorobenzene	ND	0.050	93.1	91	2.36	91.8	90.3	1.62	60 - 130	30	60 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	82.3	80.3	2.50	81.8	80.5	1.67	60 - 130	30	60 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	90.7	87.3	3.85	89.6	88.5	1.30	60 - 130	30	60 - 130	30
1,1-Dichloroethene	ND	0.050	115	112	2.74	112	110	1.57	60 - 130	30	60 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	91.2	88.8	2.71	89.7	88.9	0.903	60 - 130	30	60 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	88.5	85.3	3.60	86.7	86.4	0.364	60 - 130	30	60 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	90.1	88	2.46	89.5	88.2	1.50	60 - 130	30	60 - 130	30
Toluene	ND	0.050	92.9	90.9	2.16	92	90	2.23	60 - 130	30	60 - 130	30
Trichloroethene	ND	0.050	104	101	3.80	102	99.5	3.00	60 - 130	30	60 - 130	30
%SS1:	101	0.13	92	91	0.639	90	91	0.467	70 - 130	30	70 - 130	30
%SS2:	110	0.13	99	99	0	100	100	0	70 - 130	30	70 - 130	30
%SS3:	105	0.013	89	92	3.43	91	89	2.19	70 - 130	30	70 - 130	30

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

BATCH 46918 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0911090-001A	11/03/09 9:45 AM	11/04/09	11/04/09 8:17 PM	0911090-002A	11/03/09 10:00 AM	11/04/09	11/04/09 9:33 PM
0911090-003A	11/03/09 11:15 AM	11/04/09	11/04/09 10:11 PM	0911090-004A	11/03/09 11:35 AM	11/04/09	11/04/09 10:49 PM
0911090-005A	11/03/09 1:00 PM	11/04/09	11/04/09 11:27 PM	0911090-007A	11/03/09 1:30 PM	11/04/09	11/05/09 2:09 PM
0911090-008A	11/03/09 1:40 PM	11/04/09	11/05/09 2:47 PM	0911090-009A	11/03/09 2:00 PM	11/04/09	11/05/09 1:21 AM
0911090-011A	11/03/09 2:55 PM	11/04/09	11/05/09 1:59 AM	0911090-012A	11/03/09 3:15 PM	11/04/09	11/05/09 3:25 PM

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

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

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

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

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

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

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

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

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 46873 WorkOrder 0911090

EPA Method SW8015B **Extraction SW3550C** **Spiked Sample ID: 0911016-006A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	ND	20	94.8	94.8	0	96.9	100	3.51	70 - 130	30	70 - 130	30
%SS:	107	50	104	104	0	99	103	3.27	70 - 130	30	70 - 130	30

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

BATCH 46873 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0911090-001A	11/03/09 9:45 AM	11/04/09	11/07/09 8:59 PM	0911090-002A	11/03/09 10:00 AM	11/04/09	11/06/09 2:41 AM
0911090-003A	11/03/09 11:15 AM	11/04/09	11/05/09 4:22 PM	0911090-004A	11/03/09 11:35 AM	11/04/09	11/05/09 5:31 PM
0911090-005A	11/03/09 1:00 PM	11/04/09	11/05/09 8:00 AM	0911090-007A	11/03/09 1:30 PM	11/04/09	11/05/09 6:41 PM
0911090-008A	11/03/09 1:40 PM	11/04/09	11/05/09 7:50 PM	0911090-009A	11/03/09 2:00 PM	11/04/09	11/05/09 9:00 PM
0911090-011A	11/03/09 2:55 PM	11/04/09	11/05/09 10:09 PM	0911090-012A	11/03/09 3:15 PM	11/04/09	11/06/09 2:41 AM

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

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

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

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

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

DHS ELAP Certification 1644

QA/QC Officer