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August 11, 2008
File No. 84855/FH#3 UST

Mr. James W. Gotcher
City of Pleasanton
Public Works / Development Services
200 Old Bernal Avenue
P.O. Box 520
Pleasanton, California 94566

SUBJECT: Environmental Site Investigation of Fire Station No. 3, 3200 Santa Rita Road, Pleasanton, California

Dear Mr. Gotcher:

This letter report presents the results of an environmental site investigation performed at the Fire Station No. 3 property located at 3200 Santa Rita Road in Pleasanton (the Site, shown on Plate 1) for the City of Pleasanton. This work was performed in general accordance with the *Site Investigation Workplan* prepared by Kleinfelder and dated August 10, 2007, and technical comments included in a letter to the City of Pleasanton from Alameda County Environmental Health dated September 20, 2007.

Kleinfelder completed field work related to this investigation on April 3, 2008. Field activities included advancement of one soil boring to collect four soil samples and one groundwater sample. Three soil samples and one groundwater sample were analyzed by a California state-certified analytical laboratory to assess potential presence of impacted soil or groundwater related to the former underground storage tanks (USTs) on the site. One soil sample was archived by the analytical laboratory and not analyzed. Total petroleum hydrocarbons in the gasoline and diesel ranges were detected at concentrations exceeding their

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Environmental Screening Levels (ESLs) in the groundwater sample and in the soil sample collected at a depth of 15 feet below ground surface (bgs). Xylene was also detected in the soil sample collected at a depth of 15 feet bgs. Petroleum-related volatile organic compounds were not detected at or above laboratory reporting limits in the groundwater sample analyzed. Due to detected concentrations of gasoline and diesel range hydrocarbons in the soil and groundwater at the site, Kleinfelder recommends further assessment of the subsurface to define their extent.

Purpose and Scope of Work

The work described in this report was performed pursuant to a request to the City of Pleasanton from Alameda County Environmental Health (ACEH). The scope of work included advancement of one soil boring on the site, collection of four discrete soil samples and one groundwater grab sample, analysis of samples by a state-certified analytical laboratory, disposal of investigation-derived wastes, and preparation of this report.

Site Description and Background

The Site is located at 3200 Santa Rita Road in Pleasanton, California, at the intersection with West Las Positas Boulevard. The site is situated in the Amador Valley, and the site geology represents typical Coast Range alluvial fill – interbedded and discontinuous sands, gravels, silts and clays.

On September 12, 1996, two underground storage tanks (USTs) were removed from the Site. The USTs were each 500 gallons in capacity; one contained gasoline and the other contained diesel fuel. According to the Fire Department's *Hazardous Materials Record of Inspection* prepared on the day of the UST removal, the piping elbows for both the diesel and gasoline USTs were rusted, corroded and had holes in them. Both the diesel and gasoline USTs were tar wrapped with no obvious holes or rust, but there were gasoline odors and indications of contamination from pipe leakage. Four soil samples were collected: one from beneath the gasoline UST at a depth of approximately 9.5

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feet below ground surface (bgs); one from the south sidewall of the excavation at a depth of approximately 4 feet bgs; and two from the stockpile. The highest detected concentrations were in the sidewall sample, with total petroleum hydrocarbons (TPH) as diesel (TPHd) detected at 2,800 mg/kg. The deeper soil sample had a detected concentration of TPHd at 29 mg/kg. Benzene was not detected in the soil samples. A report dated October 14, 1996 by the UST removal contractor, W.A. Craig, includes additional detail, and recommended further excavation to remove additional soil containing petroleum hydrocarbons.

According to a report by Ecology Recovery Associates (ERA), dated January 6, 1997, ERA excavated additional soil from the site and coordinated disposal of the contaminated soil. On November 27, 1996 approximately 12 additional cubic yards of soil from along the south side of the excavation was removed. A sample collected from a gravel layer at 2 feet bgs contained TPHd at a concentration of 12,000 mg/kg, however, two additional samples collected from dense clay below the gravel layer had no detectable TPHd concentrations. On December 19, 1996 approximately seven additional cubic yards of soil was excavated from the south sidewall. A sample collected from the remaining gravel layer detected only 2 mg/kg TPHd.

On June 26, 2007, at the request of the City of Pleasanton, Kleinfelder supervised the drilling of a soil boring (SR-1) at the location of the former USTs. The objective of the drilling was to assess the impact of the fuel release on soil and groundwater beneath the site, with the intention of obtaining regulatory case closure. However, due to a greater than anticipated depth to groundwater and the depth limitation of the drilling rig, the boring was terminated at a depth of 28 feet bgs. No indications of soil contamination were observed in the boring, however groundwater was not encountered. A soil sample was collected from the boring at a depth of approximately 12 feet bgs. TPHd was detected in that sample at a concentration of 2.2 mg/kg. The boring log for boring SR-1 is included in Appendix B.

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Field Activities

Kleinfelder completed the field portion of this investigation on April 3, 2008. Vironex of Pacheco, California, a state-licensed drilling contractor (C-57 License No. 705927), advanced one soil boring under the direction of a Kleinfelder professional geologist. Soil and groundwater 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 the Zone 7 Water Agency. A copy of the drilling permit is included in Appendix A. Kleinfelder notified 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. 110413). Kleinfelder retained Cruz Brothers Locators to clear the boring location using geophysical equipment. The soil boring location and site features are shown on Plate 2.

Vironex provided drilling services for one soil boring using a truck-mounted Geoprobe 6600 (direct-push) drill rig employing the Macro-Core sampling system. The direct push rig advances a five-foot long steel tube using a hydraulic ram and hydraulic percussion hammer. The steel tube has an inside diameter of two inches and an interchangeable acrylic liner, which allows for a continuous sample through the entire depth of the borehole.

One boring was advanced to a depth of 35 feet bgs. Soil was collected in acrylic liners and inspected for indications of staining and/or odors. The continuous soil samples were logged in the field using the Unified Soil Classification System. The soil boring log is included in Appendix B.

Soil samples were collected at depth intervals of five feet and screened for organic vapors using a photo-ionization gas detector (PID). Soil samples were

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not recovered in the first ten feet of the boring due to the unconsolidated nature of the material encountered (loose gravel). Staining and odors were not noted in the soil samples. A PID reading of 185 parts per million (ppm) was detected at a depth of 15 feet bgs. Elevated PID readings were not detected deeper than 15 feet bgs. Four soil samples, collected at depths of 15, 20, 25 and 30 feet bgs, were selected from the boring and sealed on both ends with Teflon sheets and rubber end caps. The soil samples were transferred on ice to McCampbell Analytical, Inc. under chain-of-custody protocol for analysis. The soil sample collected at a depth of 30 feet bgs was placed on hold because it was collected below the apparent water table encountered in the boring. Soil sampling equipment was decontaminated between sample intervals as described below.

Groundwater was encountered at a depth of 25.5 feet bgs. Because the upper ten feet of the borehole collapsed when the drill-string was withdrawn, Vironex advanced 2.25-inch steel casing in the borehole to a depth of 30 feet bgs in order to set temporary PVC casing within the groundwater interval. The steel casing was withdrawn to expose the PVC screen over an interval from 20 to 30 feet bgs before collecting a groundwater sample. One groundwater sample was collected using new 3/8-inch polyethylene tubing and a ball-check valve device. Groundwater samples were placed in laboratory-supplied containers, labeled, and transferred on ice to McCampbell Analytical, Inc. under chain-of-custody protocol.

After groundwater samples were collected, temporary well casing was removed and discarded. The borehole was backfilled with neat cement and abandoned according to well permit requirements. The steel casing was used as a tremie pipe so that the grout would reach the total depth of the boring.

Decontamination Procedures

Non-expendable sampling equipment was decontaminated prior to use using an Alconox detergent and water solution and two-stage rinse. New expendable equipment was used whenever possible.

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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 at the Site pending approval of a waste profile. The drum was removed by Clearwater Environmental and transferred to Alviso Independent Oil in Alivso, California for disposal on April 24, 2008. The non-hazardous waste manifest is included in Appendix C.

Chemical Analysis

Three soil samples and one groundwater sample were submitted to McCampbell Analytical, Inc., for the following analyses:

- Volatile Organic Compounds (VOCs) limited to Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX), fuel oxygenates (tertiary-Amyl Methyl Ether, tertiary-Butyl Alcohol, Diiosopropyl Ether, Ethyl tertiary-Butyl Ether and Methyl tertiary-Butyl Ether), Ethylene Dibromide, and 1,2-Dichloroethane using EPA Method 8260B;
- Total Petroleum Hydrocarbons in the Gasoline range (TPHg) using EPA Method 8015Cm; and
- Total Petroleum Hydrocarbons in the Diesel range (TPHd) using EPA Method 8015C.

The three soil samples were also analyzed for total lead using EPA Method 6020A. One soil sample (SR-2-30) was archived by the analytical laboratory and not analyzed.

Results

The analytical results for soil samples collected on April 3, 2008, are summarized on Table 1. The results for the groundwater sample collected on April 3, 2008, are summarized on Table 2. The analytical report from McCampbell Analytical, Inc. is included in Appendix D.

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Analytical results are compared to Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board (RWQCB). For the purposes of this investigation, the ESLs established for shallow soil in residential areas where groundwater is a current or potential source of drinking water were used. RWQCB 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, groundwater and soil gas.

Total Xylenes were detected in soil sample SR-2-15 at a concentration of 0.035 milligrams per kilogram (mg/kg), which is below the ESL for total Xylenes in soil of 2.3 mg/kg. (Note: Total Xylenes were detected in sample SR-2-15 using EPA Method 8021B – Gas Chromatography, but were not detected at or above laboratory reporting limits using EPA Method 8260B – Gas Chromatography and Mass Spectrometry.) Other VOCs were not detected at or above laboratory reporting limits in the three soil samples submitted.

Total lead was detected at concentrations below the ESL for lead in soil. TPHg and TPHd were detected in soil sample SR-2-15 (collected 15 feet bgs) at concentrations of 92 and 1,100 mg/kg respectively. The ESLs for TPHg and TPHd are both 83 mg/kg. TPHd was detected at a concentration below its ESL in soil sample SR-2-20 (6.3 mg/kg), collected from 20 feet bgs.

One groundwater sample was collected and analyzed for VOCs, TPHg and TPHd. VOCs were not detected at or above laboratory reporting limits in the groundwater sample submitted. TPHg was detected at 620 micrograms per liter (µg/L) and TPHd was detected at 49,000 µg/L in groundwater sample SR-2. The ESLs for TPHg and TPHd in groundwater are both 100 µg/L.

Conclusions and Recommendations

Based on the results of this investigation, it appears that soil and groundwater beneath the site may have been impacted by releases from the former USTs on the site. Kleinfelder recommends the following for further investigation at the site

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to assess the extent of impacts to soil and groundwater beneath the Fire Station No. 3 site:

- Advance four additional soil borings to collect soil and groundwater samples at the locations shown on Plate 3, in general accordance with the site investigation workplan dated August 10, 2007;
- Analyze soil and groundwater samples for Total Petroleum Hydrocarbons in the gasoline and diesel ranges, and volatile organic compounds, including fuel oxygenates;
- Report the results of this and any further investigations to Alameda County Environmental Health;
- If the results from the additional soil and groundwater samples show concentrations below ESLs, recommend no further action for the site.

Limitations

Kleinfelder prepared this report in accordance with generally accepted standards of care that exist in Alameda County at this time. This report may b0e used only by the City of Pleasanton 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 City of Pleasanton or as required by law. Non-compliance with any of these requirements by the City of Pleasanton 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 City of Pleasanton 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

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science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present. Although risk can never be eliminated, more-detailed and extensive investigations yield more information, which may help understand and manage the level of risk. Since detailed investigation 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 investigations or field tests, may be performed to reduce uncertainties. Acceptance of this report will indicate that the City of Pleasanton 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 be discovered. Kleinfelder will assume 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, 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 City of Pleasanton will be solely responsible for notifying 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 City of Pleasanton will be responsible for 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 City of

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Pleasanton 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 City of Pleasanton. Consequently, no warranty or guarantee, expressed or implied, is intended or made.

Closing Remarks

We appreciate the opportunity to work with you on this project. If you have any questions regarding this letter report, or would like assistance from Kleinfelder in implementing the above recommendations, please call Jim Lehrman or John Williams at (925) 484-1700.

Respectfully submitted,

KLEINFELDER WEST, INC.

John L. Williams, III, PG
Staff Geologist

James A. Lehrman, PG, CHG
Environmental Group Manager

JLW/JAL/jmk

Attachments: Table 1 – Summary of Soil Analytical Results, Fire Station No. 1
Table 2 – Summary of Groundwater Analytical Results, Fire Station No. 1
Plate 1 – Site Vicinity Map
Plate 2 – Site Plan
Plate 3 – Proposed Soil Boring Locations
Appendix A – Drilling Permit from Zone 7 Water Agency
Appendix B – Soil Boring Logs
Appendix C – Non-Hazardous Waste Manifest
Appendix D – Laboratory Analytical Report

TABLES

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
FIRE STATION NO. 3
PLEASANTON, CALIFORNIA

		Sample ID and Date			RWQCB - ESLs[1]	Hazardous Waste Critera	
Analyte	Method	SR-2-15 4/3/2008	SR-2-20 4/3/2008	SR-2-25 4/3/2008	Residential Land Use 2007	TTLC	STLC x 10
Total Lead (mg/kg)	6020A	11	7.5	12	200	1,000	50
Petroleum Hydrocarbons (mg/kg)	8015C						
TPH (Gasoline)		**92**	ND (<1.0)	ND (<1.0)	**83**	---	---
TPH (Diesel)		**1,100**	6.3	ND (<1.0)	**83**	---	---
BTEX and Oxygenates (mg/kg)	8260B[2]						
Benzene		ND (<0.005)	ND (<0.005)	ND (<0.005)	0.044	---	---
Toluene		ND (<0.005)	ND (<0.005)	ND (<0.005)	2.9	---	---
Ethylbenzene		ND (<0.005)	ND (<0.005)	ND (<0.005)	3.3	---	---
Total Xylenes		0.035	ND (<0.005)	ND (<0.005)	2.3	---	---
tert-Amyl Methyl Ether (TAME)		ND (<0.005)	ND (<0.005)	ND (<0.005)	NE	---	---
tert-Butyl Alcohol (TBA)		ND (<0.05)	ND (<0.05)	ND (<0.05)	NE	---	---
Diisopropyl Ether (DIPE)		ND (<0.005)	ND (<0.005)	ND (<0.005)	NE	---	---
Ethyl tert-Butyl Ether (ETBE)		ND (<0.005)	ND (<0.005)	ND (<0.005)	NE	---	---
Methyl tert-Butyl Ether (MTBE)		ND (<0.005)	ND (<0.005)	ND (<0.005)	0.023	---	---
Ethylene Dibromide (EDB)		ND (<0.004)	ND (<0.004)	ND (<0.004)	0.00033	---	---
1, 2-Dichloroethane		ND (<0.004)	ND (<0.004)	ND (<0.004)	0.0045	---	---

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.

[2] Samples also analyzed for BTEX compounds and MTBE using EPA Method 8021B.

Acronyms/Abbreviations:

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

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TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FIRE STATION NO. 3
PLEASANTON, CALIFORNIA

Analyte	Method	Sample ID and Date SR-2 4/3/2008	RWQCB - ESLs[1] Residential Land Use 2007
Petroleum Hydrocarbons (µg/L)	8015C		
TPH (Gasoline)		**620**	**100**
TPH (Diesel)		**49,000**	**100**
Volatile Organic Compounds (µg/L)	8260B[2]		
Benzene		ND (<0.5)	1.0
Toluene		ND (<0.5)	40
Ethylbenzene		ND (<0.5)	30
Total Xylenes		ND (<0.5)	20
tert-Amyl Methyl Ehter (TAME)		ND (<0.5)	NE
tert-Butyl Alcohol (TBA)		ND (<2.0)	NE
Diisopropyl Ether (DIPE)		ND (<0.5)	NE
Ethyl tert-Butyl Ether (ETBE)		ND (<0.5)	NE
Methyl tert-Butyl Ether (MTBE)		ND (<0.5)	5.0
Ethylene Dibromide (EDB)		ND (<0.5)	0.05
1, 2-Dichloroethane		ND (<0.5)	0.5

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.

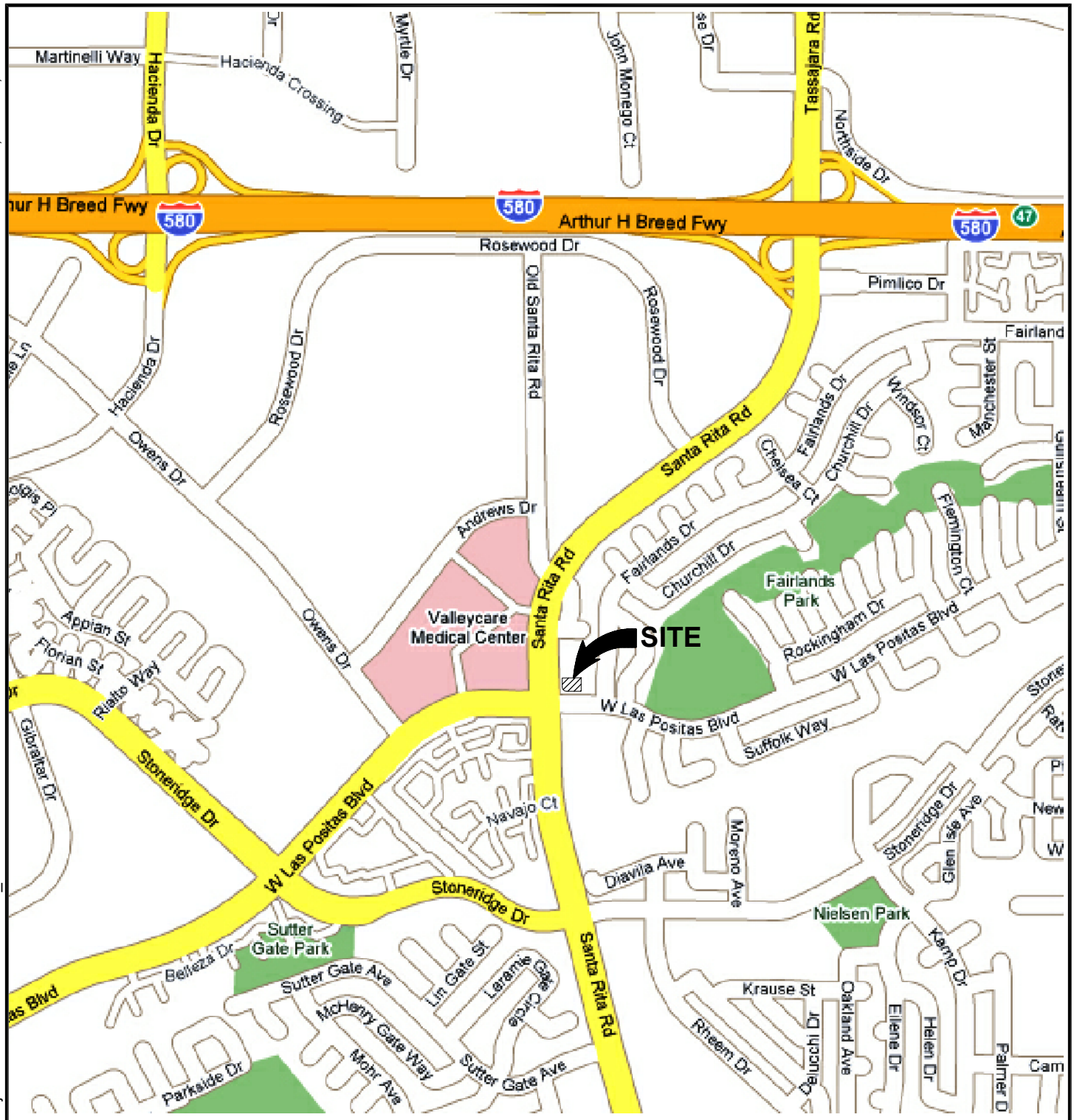
[1] California Regional Water Quality Control Board, San Francisco Bay Region. *Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater, Volume 1: Summary Tier 1 Lookup Tables, Shallow Soils, Groundwater is Current or Potential Source of Drinking Water*, Interim Final, November 2007.

[2] Samples also analyzed for BTEX compounds and MTBE using EPA Method 8021B.

Acronyms/Abbreviations:

mg/kg - milligrams per kilogram
µg/L - micrograms per liter
ESLs - Environmental Screening Levels
RWQCB - Regional Water Quality Control Board (San Francisco Bay Region)
ND - Not detected at or above laboratory reporting limit
NE - Not established

PLATES



REFERENCE:
www.google.com, 2006

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CHECKED BY:	JAL
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SITE VICINITY MAP

PLEASANTON FIREHOUSE #3
3200 SANTA RITA ROAD
PLEASANTON, 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:\2008\08Projects\84855\GRAPHICs\FH#3_UST\2008-07\ LAYOUT: SITE-VIC
PLOTTED: 18 Jul 2008, 9:00am, lsue

N

60 30 0 60

APPROXIMATE SCALE (feet)

REFERENCE:
googleearthpro, 2008

LEGEND

- PROPERTY LINE
- STORM DRAIN INLET
- SR-2 — SOIL BORING (by Kleinfelder, 2008)
- SR-1 — SOIL BORING (by Kleinfelder, 2007)

NOTE: Locations are approximate.

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FILE NAME:	FH#3_UST_2008-07.dwg

SITE PLAN

PLEASANTON FIREHOUSE #3
3200 SANTA RITA ROAD
PLEASANTON, CALIFORNIA

PLATE **2**

PLOTTED: 18 Jul 2008, 9:00am, lsue
LAYOUT: SITEPLAN
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XRef: Eng-A_8x11_P StyleA
ATTACHED XREFS: Images: SITE-VIC.jpg Images: SITEPLAN.jpg
PLEASANTON, CA

N

60 30 0 60

APPROXIMATE SCALE (feet)

REFERENCE:
googleearthpro, 2008

LEGEND

- PROPERTY LINE
- STORM DRAIN INLET
- SR-2 — SOIL BORING (by Kleinfelder, 2008)
- SR-1 — SOIL BORING (by Kleinfelder, 2007)
- PROPOSED SOIL BORING

NOTE: Locations are approximate.

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PROJECT NO.	84855
DRAWN:	JUL 2008
DRAWN BY:	LGS
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FILE NAME:	FH#3_UST_2008-07.dwg

PROPOSED SOIL BORING LOCATIONS

PLEASANTON FIREHOUSE #3
3200 SANTA RITA ROAD
PLEASANTON, CALIFORNIA

PLATE **3**

ATTACHED IMAGES: Images: SITE-VIC.jpg Images: SITEPLAN.jpg
ATTACHED XREFS: XRef: Eng-A_8x11_P_StyleA
PLEASANTON, CA CAD FILE: L:\2008\08Projects\84855\GRAPHICs\FH#3_UST\2008-07\ LAYOUT: PROPOSED PLOTTED: 18 Jul 2008, 9:00am, lsue

APPENDIX A

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

LOCATION OF PROJECT 3200 SANTA RITA RD
PLEASANTON, CA 94566

California Coordinates Source _____ ft. Accuracy _____ ft.
CCN _____ ft. CCE _____ ft.
APN 946-1109-056-00

CLIENT
Name CITY OF PLEASANTON
Address 200 OLD BERNAL AVE Phone 925-931-5684
City PLEASANTON Zip 94566

APPLICANT
Name JOHN WILLIAMS — KLEINFELDER
Email JLWilliams@Kleinfelder.com Fax 925-484-5858
Address 7133 KOLL CENTER PKWY STE 100 Phone 925-484-1700
City PLEASANTON Zip 94566

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 VIRONEX

DRILLER'S LICENSE NO. 705927

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

SOIL BORINGS:
Number of Borings 1
Hole Diameter 3 in. Maximum Depth 65 ft.

ESTIMATED STARTING DATE 4/3/08
ESTIMATED COMPLETION DATE 4/3/08

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

APPLICANT'S SIGNATURE JOHN WILLIAMS Date 3/24/08

ATTACH SITE PLAN OR SKETCH

FOR OFFICE USE

PERMIT NUMBER 28037
WELL NUMBER _____
APN 946-1109-056-00

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.

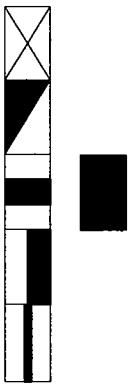
(G.) SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after completion of permitted work the well installation report **including all soil and water laboratory analysis results**.

Approved Wyman Hong Date 3/25/08
Wyman Hong

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.
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.



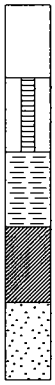
Geoprobe, Direct Push Sample

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 Contract (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

PROJECT NO. 84855

BORING LOG LEGEND

PLEASANTON FIREHOUSE #3
3200 SANTA RITA ROAD
PLEASANTON, CALIFORNIA

PLATE

4/11/2008 7:04:22 AM

Date Completed: 6/26/07

Logged By: J. Williams

Total Depth: 28.0 ft

Drilling method: Direct Push - Geoprobe 5400
Fisch Environmental

Hammer Wt: None

Notes: Gravel surface

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
1						SM	**SILTY SAND (SM)** - dark olive-brown (2.5Y 3/3), moist, loose, poorly graded		
2									
3						CL	**SILTY CLAY (CL)** - dark olive-brown (2.5Y 3/3), moist, soft		
4	SR-1--4			75	0.5				
5						SM	**SILTY SAND with CLAY (SM)**- very dark greenish-gray (5GY 3/1), moist, medium dense, poorly graded		
6									
7									
8	SR-1--8			100	0.3	CL	**SANDY CLAY (CL)** - olive-brown (2.5Y 4/3), wet, soft		
9									
10						SP	**FINE SAND (SP)** - olive-brown (2.5Y 4/3), moist, loose, poorly graded		
11							- wet, increasing grain size		
12	SR-1--12			88	0.6				
13						SP	**MEDIUM SAND (SP)** - dark olive-gray, wet, loose, poorly graded		
14									
15						CL	**SILTY CLAY (CL)** - very dark gray (5Y 4/1), moist, medium soft		
16	SR-1--16			100	0.0				
17									
18							- increasing stiffness		
19									
20				100		CH	**CLAY (CH)** - dark greenish-gray (10Y 4/1), moist, stiff		
21									
22									
23									
24				100	1.0				
25						CL	**CLAY (CL)** - very dark grayish-brown (2.5Y 3/2), moist, medium stiff		
26									
27									
28				100	0.0		**Refusal at approximately 28 feet below ground surface.**		
29							**Boring backfilled with neat cement grout.**		
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									

KLEINFELDER

PROJECT NO. 84855

LOG OF BORING NO. SR-1

PLEASANTON FIREHOUSE #3
3200 SANTA RITA ROAD
PLEASANTON, CALIFORNIA

PLATE

L:\2008\08PROJECTS\84855\84855_FH3.GPJ

Date Completed: 4/3/08
Drilling method: Direct Push - Geoprobe 6600
Vironex
Logged By: J. Williams
Hammer Wt: None
Total Depth: 35.0 ft
Notes: Concrete surface

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
1							**CONCRETE**- 4 inches thick	NO SAMPLE RECOVERY to 10 feet below ground surface	
2							**COARSE GRAVEL (GW)**- gray (5Y 6/1), dry, loose, well graded		
3									
4									
5									
6									
7									
8									
9									
10									
11							**FINE SAND (SP)**- olive (5Y 4/3), saturated, loose, poorly graded		
12									
13									
14							**CLAY (CL)**- very dark gray (5Y 3/1), moist, soft, slight hydrocarbon odor		
15	SR-2--15			100	185				
16							**CLAY (CH)**- very dark gray (5Y 3/1), moist, stiff		
17									
18							**CLAY (CH)**- dark olive-gray (5Y 3/2), moist, stiff		
19									
20	SR-2--20			100	0.0				
21									
22									
23									
24									
25	SR-2--25			100	0.0			▽	
26							**GRAVEL (GW)**- dark olive-gray (5Y 4/2), wet, loose, well graded, grain size decreases with depth		
27									
28									
29							**SANDY CLAY (CL)**- olive (5Y 4/3), moist, stiff, expansive		
30	SR-2--30			100	0.0				
31							**CLAY (CH)**- very dark gray (5Y 3/1), moist, very stiff		
32									
33									
34									
35				100	0.0				
36							**Boring terminated at approximately 35 feet below ground surface.**		
37							**Groundwater sample screened from 20 to 30 feet.**		
38									
39							**Boring backfilled with neat cement grout.**		
40									

KLEINFELDER

PROJECT NO. 84855

LOG OF BORING NO. SR-2

PLEASANTON FIREHOUSE #3
3200 SANTA RITA ROAD
PLEASANTON, CALIFORNIA

PLATE

L:\2008\08PROJECTS\84855\84855_FH3.GPJ

APPENDIX C

484-5838

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Page 1 of 1

3. Document Number 6035

4. Generator's Name and Mailing Address
City of Pleasanton Headquarters
3600 Nevada ST
Pleasanton CA 94566
Generator's Phone (925) 625-1736

FIS#3 3200 Santa Rita Rd Pleasanton

5. Transporter Company Name | 6. US EPA ID Number | 7. Transporter Phone
CLEARWATER ENVIRONMENTAL | CAR000007013 | (510) 476-1740

8. Designated Facility Name and Site Address | 9. US EPA ID Number | 10. Facility's Phone
ALVISO INDEPENDENT OIL
5002 ARCHER STREET
ALVISO, CA 95002 | CAL000161743 | (510) 476-1740

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-Hazardous waste- solid	001	dm	300	P
b.				

15. Special Handling Instructions and Additional Information
Wear PPE
Emergency Contact
(510) 476-1740
Attn: Kirk Hayward

Handling Codes for Wastes Listed Above
11a. H-040 | 11b.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to state or federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: Merlin Newton | Signature | Month 4 Day 23 Year 08

17. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: William Clark | Signature | Month 4 Day 23 Year 08

18. Discrepancy Indication Space

19. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 18.
Printed/Typed Name: Kirk Hayward | Signature | Month 4 Day 24 Year 08

APPENDIX D

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. 7133 Koll Center Pkwy, #100 Pleasanton, CA 94566	Client Project ID: # 84855/FS# UST; Pleasanton Firehouse #3	Date Sampled: 04/03/08
		Date Received: 04/04/08
	Client Contact: Jim Lehrman	Date Reported: 04/10/08
	Client P.O.:	Date Completed: 04/10/08

WorkOrder: 0804144

April 10, 2008

Dear Jim:

Enclosed within are:

1) The results of the **4** analyzed samples from your project: **# 84855/FS# UST; Pleasanton Fireh**
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

0804144

PROJECT NO: 84855/F13 UST | PROJECT NAME: PLEASANTON FIREHOUSE #3

E.P.NO / P.E.NO: | SAMPLERS: Signature Number: J. WILLIAMS

FIELD DATA LAB: McCAMPBELL

INSTRUCTIONS/REMARKS: STANDARD TAT

	DATE SAMPLED	TIME SAMPLED	SAMPLE I.D.	MATRIX	NO. OF CONT.	TYPE OF CONT.	TPH-G (8015)	TPH-D (8015)	BTEX + OXY's (8260)	ETHYLENE DIBROMIDE	1,2-DCA (8260)	TOTAL LEAD (6010)													
1	4/3/08	1108	SB-2-15	S	1	TUBE	X	X	X	X	X	X													
2	4/3/08	1113	SB-2-20	S	1	TUBE	X	X	X	X	X	X													
3	4/3/08	1118	SB-2-25	S	1	TUBE	X	X	X	X	X	X													
4	4/3/08	1126	SB-2-30	S	1	TUBE	X	X	X	X	X	X													HOLD - DO NOT ANALYZE
5	4/3/08	1215	SB-2	W	5	VOA/G	X	X	X	X	X														
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									

ICE / t° 7/6
GOOD CONDITION ✓ APPROPRIATE ✓
HEAD SPACE ABSENT ___ CONTAINERS ___
DECHLORINATED IN LAB ___ PRESERVED IN LAB ___
PRESERVATION ___ VOAS | O&G | METALS | OTHER

Relinquished by: Signature	Date	Time	Received by: Signature	Instructions/Remarks:	Send Results To:
	4/3/08	1751	Environtech T.L.	EMAIL RESULTS TO: JLehrman@kleinfelder.com JLWilliams@kleinfelder.com -SEPARATE WORK ORDERS-	KLEINFELDER 7133 KOLL CENTER PARKWAY SUITE 100 PLEASANTON, CA 94566 (925) 484-1700 Attn: Jim LEHRMAN
Relinquished by: Signature	4/3/08	1812	Received by: Signature		
Relinquished by: Signature	4/3/08	2100	Relinquished by: Signature		
			K. Burks		

White - Original | Canary - Return Copy To Shipper | Pink - Lab Copy

CHAIN OF CUSTODY

№ 4727

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0804144 **ClientCode: KFP**

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

Report to:
Jim Lehrman
Kleinfelder, Inc.
7133 Koll Center Pkwy, #100
Pleasanton, CA 94566

Email: jlehrman@kleinfelder.com
TEL: (925) 484-1700 FAX: (925) 484-5838
PO:
ProjectNo: # 84855/FS# UST; Pleasanton Firehouse #3

Bill to:
Accounts Payable
Kleinfelder Inc.
7133 Koll Center Pkwy, #100
Pleasanton, CA 94566
SEND HARDCOPY

Requested TAT: 5 days

Date Received: **04/03/2008**
Date Printed: **04/08/2008**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0804144-001	SR-2-15	Soil	4/3/2008 11:08	☐	A		A		A							
0804144-002	SR-2-20	Soil	4/3/2008 11:13	☐	A		A		A							
0804144-003	SR-2-25	Soil	4/3/2008 11:18	☐	A		A		A							
0804144-005	SR-2	Water	4/3/2008 12:15	☐		A		B								

Test Legend:

1	G-MBTEX_S	2	G-MBTEX_W	3	MBTEXOXY-8260B_S	4	MBTEXOXY-8260B_W	5	PBMS_S
6		7		8		9		10	
11		12							

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

Prepared by: Kimberly Burks

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.

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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: **4/3/2008**

Project Name: **# 84855/FS# UST; Pleasanton Firehouse #3** Checklist completed and reviewed by: Kimberly Burks

WorkOrder N°: **0804144** Matrix Soil/Water Carrier: Michael Hernandez (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: 7.6°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

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

Kleinfelder, Inc. 7133 Koll Center Pkwy, #100 Pleasanton, CA 94566	Client Project ID: # 84855/FS# UST; Pleasanton Firehouse #3	Date Sampled: 04/03/08
		Date Received: 04/04/08
	Client Contact: Jim Lehrman	Date Extracted: 04/04/08-04/08/08
	Client P.O.:	Date Analyzed 04/05/08-04/08/08

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0804144

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	SR-2-15	S	92,g,m	ND	ND	ND	ND	0.035	1	78
002A	SR-2-20	S	ND	ND	ND	ND	ND	ND	1	75
003A	SR-2-25	S	ND	ND	ND	ND	ND	ND	1	86
005A	SR-2	W	620,g,h	ND	ND	ND	ND	ND	1	92

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

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

DHS ELAP Certification N° 1644

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

Kleinfelder, Inc. 7133 Koll Center Pkwy, #100 Pleasanton, CA 94566	Client Project ID: # 84855/FS# UST; Pleasanton Firehouse #3	Date Sampled: 04/03/08
		Date Received: 04/04/08
	Client Contact: Jim Lehrman	Date Extracted: 04/07/08
	Client P.O.:	Date Analyzed: 04/08/08-04/09/08

Oxygenates and BTEX by GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0804144

Lab ID	0804144-001A	0804144-002A	0804144-003A		Reporting Limit for DF =1	
Client ID	SR-2-15	SR-2-20	SR-2-25			
Matrix	S	S	S			
DF	1	1	1		S	W
Compound	**Concentration**				mg/kg	ug/L
tert-Amyl methyl ether (TAME)	ND	ND	ND		0.005	NA
Benzene	ND	ND	ND		0.005	NA
t-Butyl alcohol (TBA)	ND	ND	ND		0.05	NA
1,2-Dibromoethane (EDB)	ND	ND	ND		0.004	NA
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND		0.004	NA
Diisopropyl ether (DIPE)	ND	ND	ND		0.005	NA
Ethylbenzene	ND	ND	ND		0.005	NA
Ethyl tert-butyl ether (ETBE)	ND	ND	ND		0.005	NA
Methyl-t-butyl ether (MTBE)	ND	ND	ND		0.005	NA
Toluene	ND	ND	ND		0.005	NA
Xylenes	ND	ND	ND		0.005	NA
Surrogate Recoveries (%)						
%SS1:	89	90	96			
%SS2:	95	95	97			
%SS3:	81	93	95			
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 ELAP Certification N° 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

Kleinfelder, Inc. 7133 Koll Center Pkwy, #100 Pleasanton, CA 94566	Client Project ID: # 84855/FS# UST; Pleasanton Firehouse #3	Date Sampled: 04/03/08
		Date Received: 04/04/08
	Client Contact: Jim Lehrman	Date Extracted: 04/09/08
	Client P.O.:	Date Analyzed: 04/09/08

Oxygenates and BTEX by GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0804144

					Reporting Limit for DF =1	
Lab ID	0804144-005B					
Client ID	SR-2					
Matrix	W					
DF	1				S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND				NA	0.5
Benzene	ND				NA	0.5
t-Butyl alcohol (TBA)	ND				NA	2.0
1,2-Dibromoethane (EDB)	ND				NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND				NA	0.5
Diisopropyl ether (DIPE)	ND				NA	0.5
Ethylbenzene	ND				NA	0.5
Ethyl tert-butyl ether (ETBE)	ND				NA	0.5
Methyl-t-butyl ether (MTBE)	ND				NA	0.5
Toluene	ND				NA	0.5
Xylenes	ND				NA	0.5
Surrogate Recoveries (%)						
%SS1:	100					
%SS2:	110					
%SS3:	105					
Comments	h					

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

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

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

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

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Angela Rydelius, Lab Manager

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Kleinfelder, Inc. 7133 Koll Center Pkwy, #100 Pleasanton, CA 94566	Client Project ID: # 84855/FS# UST; Pleasanton Firehouse #3	Date Sampled: 04/03/08
		Date Received: 04/04/08
	Client Contact: Jim Lehrman	Date Extracted: 04/04/08
	Client P.O.:	Date Analyzed 04/07/08-04/08/08

Lead by ICP-MS*

Extraction method SW3050B Analytical methods 6020A Work Order: 0804144

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS
0804144-001A	SR-2-15	S	TOTAL	11	1	123
0804144-002A	SR-2-20	S	TOTAL	7.5	1	124
0804144-003A	SR-2-25	S	TOTAL	12	1	122

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

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

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

TOTAL = acid digestion.
WET = Waste Extraction Test (STLC).
DI WET = Waste Extraction Test using de-ionized water.

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

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Kleinfelder, Inc. 7133 Koll Center Pkwy, #100 Pleasanton, CA 94566	Client Project ID: # 84855/FS# UST; Pleasanton Firehouse #3	Date Sampled: 04/03/08
		Date Received: 04/04/08
	Client Contact: Jim Lehrman	Date Extracted: 04/04/08
	Client P.O.:	Date Analyzed 04/05/08-04/07/08

Total Extractable Petroleum Hydrocarbons*

Extraction method SW3510C/SW3550C Analytical methods: SW8015C Work Order: 0804144

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS
0804144-001A	SR-2-15	S	1100,a	20	94
0804144-002A	SR-2-20	S	6.3,c	1	105
0804144-003A	SR-2-25	S	ND	1	119
0804144-005A	SR-2	W	49,000,a,h	10	113

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	1.0	mg/Kg

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

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

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

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0804144

EPA Method SW8021B/8015Cm	Extraction SW5030B				BatchID: 34794				Spiked Sample ID: 0804076-005A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	108	114	5.96	103	105	1.72	70 - 130	20	70 - 130	20
MTBE	ND	0.10	105	117	11.5	113	116	2.64	70 - 130	20	70 - 130	20
Benzene	ND	0.10	94.8	111	15.3	96.6	101	3.96	70 - 130	20	70 - 130	20
Toluene	ND	0.10	88.9	103	14.6	92.2	94	1.90	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	98.4	107	8.51	100	102	1.70	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	93.3	102	8.86	96.1	96.6	0.475	70 - 130	20	70 - 130	20
%SS:	91	0.10	87	95	8.33	93	95	2.33	70 - 130	20	70 - 130	20

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

NONE

BATCH 34794 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804144-001A	04/03/08 11:08 AM	04/04/08	04/07/08 3:58 PM	0804144-002A	04/03/08 11:13 AM	04/04/08	04/05/08 2:26 PM
0804144-003A	04/03/08 11:18 AM	04/04/08	04/07/08 4:59 PM				

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0804144

EPA Method SW8260B	Extraction SW5030B				BatchID: 34828				Spiked Sample ID: 0804144-003A			
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	91.8	98.3	6.80	92.7	91	1.86	60 - 130	30	60 - 130	30
Benzene	ND	0.050	88	95.3	8.01	92.9	90.2	2.96	60 - 130	30	60 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	102	111	8.44	124	97.5	24.3	60 - 130	30	60 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	105	111	4.78	117	112	5.05	60 - 130	30	60 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	103	110	6.44	111	109	1.67	60 - 130	30	60 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	94.5	102	7.41	97.6	96.4	1.25	60 - 130	30	60 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	96.8	103	6.10	114	93.1	20.1	60 - 130	30	60 - 130	30
Toluene	ND	0.050	87.8	97.6	10.5	90.4	87.3	3.55	60 - 130	30	60 - 130	30
%SS1:	96	0.050	97	92	5.30	101	97	4.40	70 - 130	30	70 - 130	30
%SS2:	97	0.050	102	102	0	99	100	0.712	70 - 130	30	70 - 130	30
%SS3:	95	0.050	105	104	1.18	106	105	0.869	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 34828 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804144-001A	04/03/08 11:08 AM	04/07/08	04/09/08 2:13 AM	0804144-002A	04/03/08 11:13 AM	04/07/08	04/09/08 1:30 AM
0804144-003A	04/03/08 11:18 AM	04/07/08	04/08/08 12:00 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.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0804144

EPA Method SW8015C	Extraction SW3510C				BatchID: 34830			Spiked Sample ID: N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	103	102	1.46	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	107	106	1.64	N/A	N/A	70 - 130	30

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

NONE

BATCH 34830 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804144-005A	04/03/08 12:15 PM	04/04/08	04/07/08 11:48 PM				

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

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

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

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

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

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0804144

EPA Method SW8021B/8015Cm	Extraction SW5030B				BatchID: 34834				Spiked Sample ID: 0804145-003B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	94.3	92	2.52	92.1	94.3	2.35	70 - 130	20	70 - 130	20
MTBE	ND	10	103	98.5	4.31	86.1	98.7	13.6	70 - 130	20	70 - 130	20
Benzene	ND	10	88.3	88.9	0.691	97.5	101	4.06	70 - 130	20	70 - 130	20
Toluene	ND	10	82.5	83.7	1.37	89.9	93.3	3.71	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	91.5	92.9	1.47	98.7	103	4.15	70 - 130	20	70 - 130	20
Xylenes	ND	30	87.5	88	0.511	95.5	99.9	4.53	70 - 130	20	70 - 130	20
%SS:	103	10	84	92	8.87	97	94	2.98	70 - 130	20	70 - 130	20

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

NONE

BATCH 34834 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804144-005A	04/03/08 12:15 PM	04/08/08	04/08/08 4:24 PM				

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = matrix interference and/or 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, or inconsistency in sample containers.

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0804144

EPA Method SW8260B	Extraction SW5030B				BatchID: 34842				Spiked Sample ID: 0804154-001C			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	83.2	92.2	10.3	71.5	73.3	2.50	70 - 130	30	70 - 130	30
Benzene	ND	10	95.8	93	2.95	96.3	93.9	2.51	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	113	122	7.60	87.1	95.7	9.14	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	119	116	2.65	107	114	6.10	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	98	109	10.6	82.8	85	2.55	70 - 130	30	70 - 130	30
Toluene	ND	10	94.6	92	2.78	96	94.6	1.39	70 - 130	30	70 - 130	30
%SS1:	78	10	103	100	3.02	101	103	2.64	70 - 130	30	70 - 130	30
%SS2:	99	10	102	102	0	102	103	0.828	70 - 130	30	70 - 130	30
%SS3:	95	10	105	106	0.444	104	103	0.655	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 34842 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804144-005B	04/03/08 12:15 PM	04/09/08	04/09/08 8:54 PM				

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

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

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

N/A = not 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.

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QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0804144

EPA Method 6020A			Extraction SW3050B			BatchID: 34831			Spiked Sample ID 0804167-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	29	50	96	95.3	0.456	10	91.2	91	0.231	70 - 130	20	80 - 120	20
%SS:	96	250	96	96	0	250	94	94	0	70 - 130	20	70 - 130	20

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

BATCH 34831 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804144-001A	04/03/08 11:08 AM	04/04/08	04/08/08 5:15 PM	0804144-002A	04/03/08 11:13 AM	04/04/08	04/07/08 9:23 PM
0804144-003A	04/03/08 11:18 AM	04/04/08	04/07/08 9:31 PM				

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

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

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

N/A = not applicable to this method.

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

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0804144

EPA Method SW8015C	Extraction SW3550C				BatchID: 34818				Spiked Sample ID: 0804170-006A			
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)	8.6	20	85.8	86.5	0.521	112	125	11.3	70 - 130	30	70 - 130	30
%SS:	115	50	99	100	1.09	101	117	14.5	70 - 130	30	70 - 130	30

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

NONE

BATCH 34818 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804144-001A	04/03/08 11:08 AM	04/04/08	04/07/08 10:40 PM	0804144-002A	04/03/08 11:13 AM	04/04/08	04/06/08 4:58 AM
0804144-003A	04/03/08 11:18 AM	04/04/08	04/05/08 11:16 PM				

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

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

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

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

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

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