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**SOIL AND GROUNDWATER INVESTIGATION  
REPORT FOR AREA OF FORMER USTS  
5812 HOLLIS STREET  
Emeryville, California**

**Alameda County Environmental Health  
Alameda, California**

**25 January 2010  
Project No. 4823.02**

# Treadwell&Rollo

25 January 2010  
Project No. 4823.02

Mrs. Barbara Jakub  
Alameda County Environmental Health  
1131 Harbor Bay Parkway  
Alameda, California 94502

Subject: Soil and Groundwater Investigation Report for Area of Former USTs  
5812 Hollis Street  
Emeryville, California  
RO# 201

Dear Ms. Jakub:

On behalf of EmeryStation Triangle LLC, Treadwell & Rollo, Inc. has prepared the enclosed Soil and Groundwater Investigation Report for the property located at 5812 Hollis Street in Emeryville, California.

We greatly appreciate your prompt consideration and assistance in this matter. Please call Matt Hall at (415) 955-9040 x267 if you have any questions.

Sincerely yours,  
TREADWELL & ROLLO, INC.

Matthew B. Hall, PE  
Senior Project Engineer

48230205.MBH



A handwritten signature in black ink that reads "P.G. Smith".

Philip G. Smith  
Vice President

cc: Geoff Sears, EmeryStation Triangle LLC, c/o Wareham Development  
Markus Niebanck, City of Emeryville Redevelopment Agency  
Helen Bean, City of Emeryville Redevelopment Agency

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**SOIL AND GROUNDWATER INVESTIGATION REPORT  
FOR AREA OF FORMER USTS  
5812 Hollis Street  
Emeryville, California**

## **1.0 INTRODUCTION**

On behalf of EmeryStation Triangle LLC, Treadwell & Rollo Inc. has prepared this *Soil and Groundwater Investigation Report*, to describe the activities performed to investigate potential contamination associated with the former underground storage tanks (USTs) and Fuel Leak Case RO000201 at the property at 5812 Hollis Street (Site) located in Emeryville, California (Figure 1). In addition, this report presents the extent of contamination relative to future site development.

The investigation activities described in this report were performed in general accordance with the scope of work presented in the 25 November 2008 *Revised Groundwater Investigation Workplan* prepared by Leong Environmental (Leong 2008) as requested in a 24 July 2008 letter from Alameda County Environmental Health (ACEH 2008). The revised work plan was approved with comment by ACEH in a letter dated 13 April 2009 (ACEH 2009a). Adjustments to locations of proposed borings were approved by ACEH in a 30 June 2009 email correspondence between Matt Hall of Treadwell & Rollo and Ms. Barbara Jakub (ACEH 2009b). Ms. Barbara Jakub and Mark Detterman of ACEH were onsite to oversee the beginning of field investigation activities.

The activities performed during the current investigation address ACEH concerns including the potential for residual contamination in the former UST tank excavation, the vertical extent of hydrocarbons in soil, the vertical and lateral extent of groundwater contamination in the area of the former UST tank excavation, and redevelopment and sampling of the monitoring well located in the presumed down-gradient direction from the former UST tank excavation.

## **2.0 BACKGROUND**

### **2.1 Site Description**

The Site consists of an approximately 40,000 square foot triangular-shaped lot which is occupied by a paved surface parking lot in the northern part of the Site; a vacant, paved, former dismantling yard in the center of the Site previously operated by Hydraulic Electro Service Corporation; and a single-story building in the southern part of the Site (Figure 2). The Site is bounded by Hollis Street to the west, a

commercial building to the north (at 5850 Hollis Street), and a public greenway approximately 25 feet wide to the east. The southern tip of the Site is at the intersection of Hollis Street and Powell Street.

## **2.2 Historical Information**

The Site was undeveloped prior to construction of the single-story building at the Site in 1941 and was originally occupied by a pipe and valve company that used the Site for offices and storage. A machine shop was added to the northern end of the Site in the 1950s but was replaced by a paved parking lot in the 1960s. In 1977, the Alders family acquired the Site and conducted business as Hydraulic Electro Service Corporation. Site activities since 1977 included oil storage, battery storage, hazardous materials storage, and operation of two USTs located at the northern end of the Site (Figure 3). Two USTs (one 8,000-gallon gasoline tank and one 3,000-gallon diesel tank) and an associated dispenser island were installed at the northern end of the Site in 1977 and removed on 5 December 1989. During removal activities, residual total petroleum hydrocarbons were observed in soil and groundwater.

During UST removal, a hydrocarbon sheen was reportedly observed in the water that had collected in the excavation. Up to 23 milligrams per kilogram (mg/kg) of total petroleum hydrocarbons as diesel (TPH-d) were detected in soil samples from the excavation. Groundwater samples from the excavation reportedly contained the following maximum concentrations:

- TPH-d at 90,000 micrograms per liter ( $\mu\text{g/L}$ )
- Total petroleum hydrocarbons as gasoline (TPH-g) at 2,300  $\mu\text{g/L}$
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) at 100  $\mu\text{g/L}$ , 200  $\mu\text{g/L}$ , 40  $\mu\text{g/L}$ , and 310  $\mu\text{g/L}$ , respectively.

The inferred down-gradient direction of groundwater flow at the Site was to the west-southwest. A groundwater monitoring well (MW-1) was installed approximately 10 feet southwest of the former USTs on 17 June 1993 by Summit Engineering (Figure 2).

During well installation in 1993, groundwater was first encountered at 12 feet below ground surface (bgs). Groundwater was measured at approximately 5 feet bgs, 48 hours after well construction. A groundwater sample collected from the well indicated analytical results reportedly below laboratory reporting limits. In a letter dated 10 November 1999, ACEH requested analysis of groundwater for methyl tert-butyl ether (MTBE) prior to Site closure. A groundwater sample was collected and analyzed for MtBE in 2006. MtBE was not detected in the groundwater sample.

The property was acquired by EmeryStation Triangle LLC in 2008, and Hydraulic Electro Service Corporation ceased operations at the Site (Leong 2008).

### **2.3 Site Redevelopment Plan**

The redevelopment plans include a multi-story commercial building occupying the northern three-quarters of the property. This building will sit atop one level of subgrade parking. The total excavation depth for the redevelopment is expected to be up to 15 feet bgs. The southern one-quarter of the property is planned to contain a paved and landscaped open area. The eastern, western, and northern boundaries of the proposed redevelopment are expected to be sidewalk with limited landscaped areas. A plan showing the outline of the structure is provided in Figure 2.

### **2.4 Regional Geology and Hydrogeology**

According to the United States Geological Survey (USGS) 7.5-Minute Series Topographic Map of the Oakland West, California, Quadrangle (1959, photo revised 1980), the Site is located at elevations of approximately 20 feet above mean sea level (msl). The Site is in the Coast Ranges Geologic Province of California, characterized by northwest-trending mountain ranges and valleys. Effects of the Hayward Fault Zone and associated transpressional/transensional structural features dominate the geology of western Alameda County. This general area is underlain by Jurassic and Cretaceous sedimentary and igneous rocks of the Franciscan Assemblage and the Quaternary Alameda formation. The Franciscan basement rocks generally do not contain significant water-producing units. Within the Coast Ranges Geologic Province of California, the Site is located within the flatlands of the East Bay Alluvial Plain near the shore of San Francisco Bay. The sediments of the East Bay Alluvial Plain slope gently westward from the Oakland-Berkeley Hills to San Francisco Bay.

Water-yielding zones in the Emeryville area are generally discontinuous and interspersed with less-permeable layers, as is typical of alluvial systems. The more permeable zones are composed of gently westward-sloping sand and gravel beds deposited by streams within the complex structure of the alluvial fan deposits, which shifted and braided over a period of hundreds of thousands of years. Because of the discontinuous and interspersed subsurface geological deposits typical of alluvial fan units, local groundwater gradients are complex and can be expected to change over short distances. The predominant regional direction of shallow groundwater flow is westward toward San Francisco Bay, which is located approximately 0.5 miles to the west.

The East Bay Municipal Utility District provides potable water for the Site and vicinity. Groundwater in the vicinity of the Site is not currently used as a source of drinking water, nor does the Site overlie a shallow aquifer used for drinking water. Based on regulatory guidance (State Water Resources Control Board [SWROB] 1988 and San Francisco Bay Regional Water Quality Control Board [RWQCB] 1999), the portability of shallow groundwater in the vicinity of the Site is questionable because of the low permeability of sediments beneath the Site, elevated total dissolved solids (TDS) concentrations, possible saltwater intrusion, and susceptibility to pollution from area industries; however, the groundwater has not been undesignated for beneficial municipal supply use. Groundwater samples collected from the site detected TDS concentrations which exceed the Environmental Protection Agency (EPA) secondary maximum contaminant levels (MCL) for drinking water (500 mg/L), but do not exceed the guidance in the regulatory guidance (SWROB 1988 and RWQCB 1999) for designation of 3,000 mg/L. Accordingly, groundwater at the site is considered as a current or potential source of drinking water.

Temescal Creek is the nearest perennial stream, located approximately 1 mile south of the Site. The creek flows through a U-shaped, concrete-lined channel about 30 feet wide and 12 feet deep. Temescal Creek drains into San Francisco Bay within the tidal marshes of Emeryville Crescent (Leong 2008).

## **2.5 Site Specific Geology and Hydrogeology**

The hydrogeologic conditions noted below are based on observations made by Treadwell & Rollo during the drilling activities performed previously at the Site on 22-23 January 2008 and 4-5 March 2008 (T&R, 2008a), and during the investigation performed on 6-8 July 2009. Generally, the Site consists of an asphalt-concrete surface (approximately 3-inches thick) underlain by mixed fine and coarse-grained material.

During the July 2009 UST area investigation, a mixture of loose to medium dense sand and gravel was encountered in the former UST tank excavation from approximately 3 inches to 11 feet bgs. A stiff, light brown, clay was encountered from 11 to 19 feet bgs, and medium dense silty sand was encountered from 19 to 28 feet bgs. A light brown, medium dense, clay was encountered at 28 to 30 feet bgs, the maximum depth explored. Borings adjacent to the UST tank excavation (UST-01, UST-03, and UST-04), encountered primarily clay to sandy gravelly clay with thin interbeds of laterally discontinuous coarse-grained material.

The unstabilized depth to groundwater in grab groundwater sample borings was measured between 3 to 8 feet bgs during investigations performed in 2008 and approximately 7.5 feet bgs during the July 2009



investigation. Groundwater in temporary well borings was slow to recharge during grab groundwater sampling.

The direction of groundwater flow has not been measured for this Site. However, based on Site topography and the groundwater flow observed at nearby sites, the general groundwater flow direction is assumed to be westerly toward the San Francisco Bay.

### **3.0 FIELD INVESTIGATION**

Treadwell & Rollo performed the following field investigation activities during April to July 2009:

- Redevelopment of MW-1
- Grab groundwater and soil sampling at four locations
- Sampling of MW-1.

The following sections describe the redevelopment of MW-1 and soil and groundwater sampling activities.

#### **3.1 Redevelopment of MW-1**

On 24 April 2009, Treadwell & Rollo measured the total depth and depth to groundwater in MW-1 and redeveloped MW-1 by surging for approximately 10 minutes followed by purging of approximately 11 casing volumes of water. Field parameters including temperature, pH, conductivity, turbidity, dissolved oxygen, and oxygen reduction potential were measured at regular intervals during purging. Total depth of MW-1 was measured relative to ground surface and the top of casing and the screen interval was calculated to be 4.6 to 19.6 feet bgs based upon field measurements.

#### **3.2 Soil Sampling**

Prior to drilling, boring permits were obtained from Alameda County Public Works Agency. Treadwell & Rollo also notified Underground Service Alert (USA) and subcontracted Precision Locating of Brentwood, California, to identify underground utilities at the work site.

On 6 July 2009, Treadwell & Rollo mobilized to the Site with Gregg Drilling & Testing, Inc., of Martinez, California (Gregg). Gregg hand augered each boring for the first 5 feet to ensure no underground utilities were present. Gregg advanced five soil borings (UST-01, UST-01-DEEP, UST-02, UST-03, and UST-04) to

depths ranging between 20 and 30 feet bgs by direct-push technology to collect soil samples. Gregg advanced UST-01 next to the former dispenser lines that are located north of and cross-gradient to the former USTs, UST-02 was advanced in the former UST backfill area, UST-03 approximately 1.5 feet downgradient of an excavation patch presumed to be a former sewer line, and UST-04 in the presumed downgradient direction of the former UST backfilled excavation. The locations of these borings are shown on Figures 2 and 3.

On 7 July 2009 Gregg advanced UST-01-DEEP, located approximately 1 foot from UST-01, to a total depth of 25 feet bgs to collect soil samples in order to vertically define the extent of potential TPH in UST-01 at 20 feet bgs.

A Treadwell & Rollo field geologist continuously logged each boring and classified the material in the field in accordance with the Unified Soil Classification System (ASTM Standard D 2487). Treadwell & Rollo collected soil samples at approximate 5-foot intervals and additionally at the capillary fringe, at lithologic changes, and at areas of obvious contamination. Soil samples were containerized, labeled, placed in chilled coolers, and transported under chain-of-custody procedures to McCampbell Analytical, Inc. (McCampbell) of Pittsburg, California, for analysis.

All drilling and sampling equipment was decontaminated prior to each use. Soil cuttings and decontamination rinsate were containerized in 55-gallon drums on Site. Borings were tremie grouted with neat cement upon completion of sampling activities.

### **3.3 Groundwater Sampling**

#### **3.3.1 Grab Groundwater Sampling**

On 6 July 2009, Gregg advanced direct-push borings UST-01, UST-03, and UST-04 to a total depth of 9 feet bgs and placed a 5-foot length of ¾" diameter temporary PVC screen and corresponding length of blank casing in each boring. The UST-02 boring annulus would not stay open long enough (due to UST excavation backfill collapse) to accommodate placement of a temporary well screen and was subsequently drilled to its total depth of 30 feet bgs. Upon reaching total depth in UST-02, a screen was inserted into the rods, and the rods were retracted to expose a 3-foot long section of temporary well screen. Groundwater entered the borings and temporary well screen and was allowed to equilibrate for approximately 24 hours prior to sampling due to slow recharge.

On 7 July 2009, Treadwell & Rollo measured water levels and began collecting grab groundwater samples at borings UST-01, UST-02, UST-03, and UST-04. Depth to water was measured prior to sampling. Grab groundwater samples were collected in a bailer and decanted into 40-milliliter volatile organic analysis (VOA) vials preserved with hydrochloric acid, unpreserved 1 liter glass bottles, and 250 mL poly containers; and placed in a chilled cooler for transportation under chain-of-custody protocol to McCampbell for analysis. Depth to water measurements are presented in Table 1.

All drilling and sampling equipment was decontaminated prior to each use. Decontamination rinsate was containerized in 55-gallon drums on Site. The temporary screens were removed and the borings were tremie grouted with neat cement upon completion of groundwater sampling activities.

### **3.3.2 Monitoring Well Sampling**

On 7 July 2009, Treadwell & Rollo gauged and sampled monitoring well MW-1. MW-1 was purged and sampled using low-flow procedures. Purge equipment included a peristaltic pump with new polyethylene tubing. The purge rate averaged 150 milliliters per minute (ml/min). Field parameters including depth to water, temperature, pH, conductivity, turbidity, dissolved oxygen, and oxygen reduction potential were measured at regular intervals during purging. After parameters stabilized, samples were collected in appropriate laboratory-supplied containers and placed on ice until they were delivered to McCampbell for analysis. Depth to water measurements of MW-1 are presented in Table 1. The groundwater sampling field form is presented in Appendix B.

## **4.0 LABORATORY ANALYTICAL RESULTS**

Soil and groundwater samples were sent to McCampbell for analysis. Soil samples were analyzed for:

- total petroleum hydrocarbons as gasoline (TPH-g), total petroleum hydrocarbons as diesel and motor oil (TPH-d and TPH-mo) by EPA Method 8015B, with TPH-d and TPH-mo treated with silica gel cleanup
- BTEX compounds (benzene, toluene, ethylbenzene, and xylenes) by EPA Method 8260B
- fuel oxygenates: MTBE, tert-amyl methyl ether (TAME), diisopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), and tert-butyl alcohol (TBA) by EPA Method 8260B.

Groundwater samples were analyzed for:

- TPH-g by EPA Methods 8015B or 8260B

- TPH-d and TPH-mo by EPA Method 8015B with silica gel cleanup
- BTEX by EPA Method 8260B
- MTBE, TAME, DIPE, ETBE, and TBA by EPA Method 8260B
- Total dissolved solids by EPA Method SM2540C.

The analytical results are summarized in Table 2 for soil samples and Table 3 for groundwater samples. Copies of the laboratory analytical reports and chain-of-custody documentation are presented in Appendix C.

#### **4.1 Soil Analytical Results**

TPH-g was detected in 4 of the 15 samples with concentrations ranging from 0.46 mg/kg to 1.9 mg/kg. TPH-d was detected in 9 of 15 samples with concentrations ranging from 1 mg/kg to 530 mg/kg. TPH-mo was detected in 9 of 15 samples with concentrations ranging from 7.5 mg/kg to 290 mg/kg. BTEX compounds and fuel oxygenates were not detected above the laboratory method reporting limits in any soil samples. The soil analytical results are presented in Table 2.

TPH-d concentrations exceeded the Residential Environmental Screening Levels (ESL) (83 mg/kg, Table A) in 4 of the 15 samples with concentrations in these samples ranging from 110 mg/kg to 530 mg/kg.

#### **4.2 Groundwater Analytical Results**

TPH-g was detected in groundwater samples from UST-02, UST-03, and UST-04 with concentrations ranging from 100 µg/L to 960 µg/L. Groundwater collected from UST-03 was initially analyzed for TPH-g by method 8260 on 7 July 2009, and the resulting concentration was below laboratory reporting limits (< 50 µg/L). Groundwater stabilized in UST-03 over night, was sampled again, and was subsequently analyzed for TPH-g using method 8015 on 9 July 2009; the result was 960 µg/L. TPH-d was detected in UST-01, UST-02, UST-03, and UST-04 at concentrations ranging from 110 µg/L to 29,000 µg/L. TPH-mo was detected in UST-02, UST-03, and UST-04 at concentrations ranging from 390 µg/L to 17,000 µg/L. Toluene was detected in groundwater from monitoring well MW-1 at a concentration of 1.2 µg/L. Otherwise, BTEX compounds were not detected in groundwater analyzed during the July 2009 investigation. TBA was detected in UST-02 at a concentration of 3.1 µg/L. No other fuel oxygenates were detected in groundwater samples from the July 2009 investigation. Total dissolved solid

concentrations in samples collected from MW-1, UST-01, UST-02, UST-03, and UST-04 ranged between 618 mg/L and 1,180 mg/L. The groundwater analytical results are presented in Table 3.

TPH-g was detected at concentrations that exceed the ESL (100 µg/L) in grab groundwater samples from UST-02, UST-03, and UST-04. TPH-d was detected at concentrations exceeding the ESLs (100 µg/L) in all four grab groundwater sample locations. TPH-mo was detected at concentrations exceeding the ESL (100 µg/L) in grab groundwater samples from UST-02, UST-03, and UST-04. BTEX and fuel oxygenates were not detected above their respective ESLs.

#### **4.2.1 Difference in TPH-g Concentrations in Groundwater at UST-03**

Due to slow recharge, groundwater was collected at two different times from UST-03 with a difference of approximately 9 hours between collection times. The first sample collected was submitted to McCampbell on 7 July 2009 and the second sample was submitted on 8 July 2009. Both samples were analyzed for TPH-g but by different methods (EPA 8260B and EPA 8015M). The sample submitted on 7 July 2009 did not contain TPH-g concentrations at or above the laboratory reporting limit of 50 µg/L. TPH-g concentration in the sample submitted on 8 July 2009 was 960 µg/L. TPH-d and TPH-mo were only analyzed in the 7 July 2009 sample.

The increase of TPH-g in groundwater collected from boring UST-03 over a period of 9 hours may indicate that hydrocarbons confined to the coarse-grained material in the adjacent excavation patch were gradually drawn into the temporary well screen at UST-03, and that the later groundwater sample is more representative of the backfill area than native soil.

## **5.0 DISCUSSION**

### **5.1 Subsurface Conditions**

The subsurface at the Site is predominantly silt and clay and sandy/silty clay with the exception of the following coarse units:

- clayey gravel at 10-14 feet bgs at MW-1
- silty sand at 19-28 feet bgs at UST-02
- sandy gravel and silty sand at 15-16 and clayey sand at 17.5-18.5 feet bgs at UST-03
- backfill material within the former UST excavation

- silty sand from 1-5 feet bgs at UST-04
- clayey sand and sand at 18-19 and 24-25 feet bgs at UST-01-DEEP.

The coarse units are thin or laterally discontinuous within the native soil (i.e., outside of the former UST excavation) at the Site. Due to the abundance of clay and silt and the discontinuous nature of the coarse units, the subsurface is considered to be low permeability in nature, with the exception of the former UST excavation and excavation patch backfill. An idealized subsurface profile (A-A') through the investigation area is included as Figure 4.

Stabilized groundwater ranged between approximately 5-6 feet bgs during July 2009 and previous groundwater gauging events. Measured depths to groundwater are presented in Table 1.

## **5.2 Petroleum Hydrocarbons in Soil**

TPH-d was the only chemical detected in soil at concentrations exceeding ESLs. TPH-d was detected in samples from UST-03 and UST-04 at concentrations exceeding the ESLs for deep soils where groundwater is a current or potential source of drinking water (83 mg/kg). TPH-d concentrations detected in other samples were below the ESL. TPH-g and TPH-mo concentrations detected were lower than their respective ESLs in all soil samples. BTEX and fuel oxygenates were not detected in any soil samples.

In general, hydrocarbon contamination is concentrated at UST-03 between approximately 7-14 feet bgs and UST-04 between approximately 8.5-10.5 feet bgs. UST-04 is adjacent to coarse-grained backfill materials of the former UST excavation, and UST-03 is located approximately 1.5 feet downgradient of the excavation patch that extends southeast from the UST excavation. Samples with the highest hydrocarbon concentrations from UST-04 and UST-03, with the exception of the 13.5-14-foot sample from UST-03, were collected in fine-grained soil.

The relatively elevated concentrations of hydrocarbons at UST-03 and UST-04 indicate that hydrocarbons are likely concentrated in the coarse-grained backfill materials associated with the former UST excavation and the excavation patch that extends southeast from the UST excavation. Hydrocarbons appear to have sorbed to fine-grained material adjacent to, and immediately down-gradient of, the coarse backfill material, but the fine-grained soil has largely confined the residual hydrocarbons to within the excavation backfill material.

### **5.3 Petroleum Hydrocarbons in Groundwater**

Grab groundwater samples were collected from screen intervals at 4-9 feet bgs, with the exception of UST-02, which was screened at 27-30 feet bgs. Analytical results from the grab groundwater samples were compared to the deep soil ESLs where groundwater is a current or potential source of drinking water.

TPH-g was detected in groundwater grab samples from UST-02, UST-03, and UST-04 at concentrations exceeding the ESL (100 µg/L). TPH-d detected in samples from UST-01, UST-02, UST-03, and UST-04, and TPH-mo detected in samples from UST-02, UST-03, and UST-04 exceeded their ESLs (100 µg/L). TPH-g, TPH-d, and TPH-mo were not detected in any other samples. Toluene was detected in MW-1 at concentrations lower than the ESL. All other BTEX constituents were not detected in any samples. TBA was detected in UST-02 at a concentration less than the ESL.

The highest concentrations of TPH-g, TPH-d, and TPH-mo were detected in groundwater from borings UST-03 and UST-04 at 4-9 feet bgs. Both UST-03 and UST-04 are located adjacent to the coarse-grained backfill material of the former UST excavation and the excavation patch that extends southeast from the corner of the former UST excavation. UST-01, which had a TPH-d concentration slightly above the ESL, is located adjacent to the former dispenser and product line. Down-gradient monitoring well MW-1 did not have detections of TPH-d or other contaminants, with the exception of a low detection of toluene.

Based upon the lateral distribution of hydrocarbons in groundwater, it appears that groundwater contamination is concentrated in the coarse-grained backfill materials associated with the former UST excavation, former dispenser island and associated product line backfill, and the excavation patch that extends southeast from the UST excavation to UST-03 and TR-4. The fine-grained material surrounding the former tank excavation appears to have confined residual contamination within the coarse-grained material of the former tank excavation.

## **6.0 CONCLUSIONS**

Hydrocarbon contamination in soil is concentrated in coarse-grained materials of the former UST backfill and the patched excavation and, to a limited extent, the fine-grained materials that are immediately adjacent to the coarse backfill. Contaminated soil is limited to the upper 12 feet. This material will be removed during site redevelopment excavation. Confirmation sampling will be conducted during redevelopment activities to confirm that the affected soil has been removed.

Groundwater contamination is concentrated in the coarse-grained backfill materials associated with the former UST excavation, former dispenser island and associated product line backfill, and the excavation patch that extends southeast from the former UST excavation. Groundwater samples in borings adjacent to the former UST excavation are indicative of releases from the former USTs. However, data from further downgradient locations (MW-1) indicate that residual hydrocarbons in groundwater are restricted to the coarse-grained backfill of the excavations, and contaminants are likely not significantly migrating downgradient. Limited evidence of groundwater contamination may have been detected at depths below the former UST excavation. However, given that the sampler was left in the boring over night to allow water to enter, these slightly elevated TPH-d and TPH-mo detections may have traveled down the rods from the overlying excavation. Based on the low concentrations in the adjacent soil at this depth, it is unlikely that significant groundwater contamination exists at depth at this site.

## **7.0 SUMMARY AND RECOMMENDATIONS**

The relatively low concentrations of hydrocarbons in soil and groundwater in down-gradient borings (MW-1), compared with borings adjacent to the former UST excavation (UST-03 and UST-04), indicate that contamination is laterally confined to the coarse material of the former UST excavation, former dispenser island and associated product line backfill, and the excavation patch, and to a limited extent, the fine-grained materials immediately down-gradient of the coarse-grained backfill materials.

Prior to redevelopment, targeted excavation will be performed in the area of the former USTs to remove impacted soil. When no additional evidence of field contamination is observed, confirmation samples will be collected from the sidewalls and floor of the excavation. Samples will be collected with a frequency of one sample for every 25 linear feet per 3 feet of depth along the sidewalls and one sample for every 2,500 square feet in the floor of the excavation. Samples will be analyzed for TPH-g, TPH-d, TPH-mo, benzene, toluene, ethyl benzene, and xylene. When soil concentrations are below the residential ESLs or the excavation reaches the maximum extent of the planned garage, the targeted excavation will cease.

Any groundwater with evidence of contamination will be pumped out of the excavation. Based on the results of this investigation, we anticipate this Site should be considered for closure as a low-risk petroleum hydrocarbon site following redevelopment.



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**TABLES**

**TABLE 1**  
**Groundwater Levels**  
**5812 Hollis Street**  
**Emeryville, California**

| Well/Boring No. | Date     | Screen Interval<br>feet bgs | DTW<br>feet bgs |
|-----------------|----------|-----------------------------|-----------------|
| MW-1            | 06/29/06 | 4.6-19.6                    | 6.7             |
|                 | 04/24/09 |                             | 5.25            |
|                 | 04/27/09 |                             | 5.31            |
|                 | 05/19/09 |                             | 4.85            |
|                 | 07/07/09 |                             | 5.28            |
| UST-01          | 07/07/09 | 4.0-9.0                     | 6.37            |
| UST-02          | 07/07/09 | 27-30                       | 22.78*          |
| UST-03          | 07/07/09 | 4.0-9.0                     | 6.14            |
| UST-04          | 07/07/09 | 4.0-9.0                     | 5.86            |

Notes:

DTW = depth to water

bgs = below ground surface

\*UST-2 was drilled to 30 feet bgs. The screen was exposed from 27-30 feet bgs in order to collect a depth discrete sample beneath the former UST backfill area.

TABLE 2  
Soil Analytical Results  
5812 Hollis Street  
Emeryville, CA

| Location        | Sample ID        | Sample Date | Sample Depth feet (bgs) | TPH-g mg/kg | TPH-d mg/kg          | TPH-mo mg/kg         | Benzene mg/kg | Ethyl-benzene mg/kg | Toluene mg/kg | Xylenes mg/kg | Fuel Oxygenates mg/kg |
|-----------------|------------------|-------------|-------------------------|-------------|----------------------|----------------------|---------------|---------------------|---------------|---------------|-----------------------|
| UST-01          | UST-01 8-8.5     | 07/06/09    | 8.0-8.5                 | < 0.25      | 15 <sup>e3,e7</sup>  | 16 <sup>e3,e7</sup>  | < 0.005       | < 0.005             | < 0.005       | < 0.005       | ND                    |
|                 | UST-01 15-15.5   | 07/06/09    | 15.0-15.2               | < 0.25      | < 1.0                | < 5.0                | < 0.005       | < 0.005             | < 0.005       | < 0.005       | ND                    |
|                 | UST-01 19.5-20   | 07/06/09    | 19.5-20.0               | < 0.25      | 15 <sup>e3,e7</sup>  | 11 <sup>e3,e7</sup>  | < 0.005       | < 0.005             | < 0.005       | < 0.005       | ND                    |
|                 | UST-1-DEEP 20    | 07/07/09    | 20.0-20.5               | < 1.0       | < 1.0                | < 5.0                | < 0.005       | < 0.005             | < 0.005       | < 0.005       | ND                    |
|                 | UST-1-DEEP 24-25 | 07/07/09    | 24.0-25.0               | < 1.0       | < 1.0                | < 5.0                | < 0.005       | < 0.005             | < 0.005       | < 0.005       | ND                    |
| UST-02          | UST-02 11.5-12   | 07/06/09    | 11.5-12.0               | < 0.25      | 17 <sup>e2,e7</sup>  | 44 <sup>e2,e7</sup>  | < 0.005       | < 0.005             | < 0.005       | < 0.005       | ND                    |
|                 | UST-02 19.5-20   | 07/06/09    | 19.5-20.0               | < 0.25      | < 1.0                | < 5.0                | < 0.005       | < 0.005             | < 0.005       | < 0.005       | ND                    |
|                 | UST-02 27.5-28   | 07/06/09    | 27.5-28.0               | < 0.25      | 1.0 <sup>e2,e7</sup> | 9.5 <sup>e2,e7</sup> | < 0.005       | < 0.005             | < 0.005       | < 0.005       | ND                    |
| UST-03          | UST-03 4.5-5     | 07/06/09    | 4.5-5.0                 | < 0.25      | < 1.0                | 7.5 <sup>e7</sup>    | < 0.005       | < 0.005             | < 0.005       | < 0.005       | ND                    |
|                 | UST-03 7.5-8     | 07/06/09    | 7.5-8.0                 | 0.86        | 530 <sup>e1,e7</sup> | 290 <sup>e1,e7</sup> | < 0.005       | < 0.005             | < 0.005       | < 0.005       | ND                    |
|                 | UST-03 13.5-14   | 07/06/09    | 13.5-14.0               | 0.46        | 110 <sup>e3,e7</sup> | 66 <sup>e3,e7</sup>  | < 0.005       | < 0.005             | < 0.005       | < 0.005       | ND                    |
|                 | UST-03 15-15.5   | 07/06/09    | 15-15.5                 | <0.25       | <1.0                 | <5.0                 | --            | --                  | --            | --            | --                    |
| UST-04          | UST-04 8.5-9     | 07/06/09    | 8.5-9.0                 | 1.9         | 260 <sup>e3,e7</sup> | 190 <sup>e3,e7</sup> | < 0.005       | < 0.005             | < 0.005       | < 0.005       | ND                    |
|                 | UST-04 10-10.5   | 07/06/09    | 10.0-10.5               | 0.81        | 290 <sup>e3,e7</sup> | 160 <sup>e3,e7</sup> | < 0.005       | < 0.005             | < 0.005       | < 0.005       | ND                    |
|                 | UST-04 15-15.5   | 07/06/09    | 15.0-15.5               | < 0.25      | 1.8 <sup>e2</sup>    | < 5.0                | < 0.005       | < 0.005             | < 0.005       | < 0.005       | ND                    |
| TR-1            | TR-1-0.5         | 01/22/08    | 0.5-1.0                 | < 0.100     | 11                   | 114                  | < 0.01        | < 0.01              | < 0.01        | < 0.01        | ND                    |
|                 | TR-1-5.0         | 01/22/08    | 5.0-5.5                 | < 0.100     | <2.0                 | <4.0                 | < 0.01        | < 0.01              | < 0.01        | < 0.01        | ND                    |
| TR-4            | TR-4-1.5         | 01/22/08    | 1.5-2.0                 | < 0.100     | 34.2x                | 309x                 | < 0.01        | < 0.01              | < 0.01        | < 0.01        | ND                    |
|                 | TR-4-5.0         | 01/22/08    | 5.0-5.5                 | 0.44y       | 57.4x                | 58.4x                | < 0.05        | < 0.05              | < 0.05        | < 0.10        | ND                    |
| TR-19           | TR-19-2.5        | 04/17/08    | 2.5-3.0                 | < 0.100     | < 2.0                | 22                   | < 0.01        | < 0.01              | < 0.01        | < 0.01        | ND                    |
|                 | TR-19-5.0        | 04/17/08    | 5.0-5.5                 | < 0.100     | <2.0                 | <4.0                 | < 0.01        | < 0.01              | < 0.01        | < 0.01        | ND                    |
| TR-23           | TR-23-2.5        | 04/17/08    | 2.5-3.0                 | < 0.100     | <2.0                 | <4.0                 | < 0.01        | < 0.01              | < 0.01        | < 0.01        | ND                    |
|                 | TR-23-5.0        | 04/17/08    | 5.0-5.5                 | < 0.100     | <2.0                 | <4.0                 | < 0.01        | < 0.01              | < 0.01        | < 0.01        | ND                    |
| TR-24           | TR-24-2.5        | 04/17/08    | 2.5-3.0                 | < 0.100     | <2.0                 | 71.3                 | < 0.01        | < 0.01              | < 0.01        | < 0.01        | ND                    |
|                 | TR-24-5.0        | 04/17/08    | 5.0-5.5                 | < 0.100     | <2.0                 | <4.0                 | < 0.01        | < 0.01              | < 0.01        | < 0.01        | ND                    |
| ESL-R (Table A) |                  |             |                         | 83          | 83                   | 370                  | 0.044         | 2.3                 | 2.9           | 2.3           | NA                    |

Notes:

-- = not analyzed                      bgs = below the ground surface                      mg/kg - milligrams per kilogram  
 < 0.25 = not detected above laboratory reporting limit  
 ND = not detected above laboratory reporting limit, reporting limit varies - see laboratory report  
 NA = not applicable  
 TPH-g = Total Petroleum Hydrocarbons quantified as gasoline by EPA Method 8260B  
 TPH-d = Total Petroleum Hydrocarbons quantified as diesel fuel by EPA Method 8015B  
 TPH-mo = Total Petroleum Hydrocarbons quantified as motor oil by EPA Method 8015B  
 ESL-R (Table A): Shallow soils (less than 10 feet bgs) where groundwater is a current or potential source of drinking water for residential land use (SF-RWQCB, May 2008)  
 ESL = Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater by the San Francisco Bay Regional Water Quality Control Board (2007, revised May 2008).  
 Concentrations in **bold** exceed their respective ESL

Footnotes:

e1 = unmodified or weakly modified diesel is significant  
 e2 = diesel range compounds are significant; no recognizable pattern  
 e3 = aged diesel is significant  
 e7 = oil range compounds are significant  
 x = laboratory reports that the sample chromatogram does not resemble typical diesel or motor oil pattern  
 y = laboratory reports that the sample is "not typical gasoline (heavy end hydrocarbonic)"

**TABLE 3**  
**Groundwater Analytical Results**  
**5812 Hollis Street**  
**Emeryville, California**

| Sample ID          | Sample Date | TPH-g<br>µg/l                                     | TPH-d<br>µg/l                    | TPH-mo<br>µg/l                   | Benzene<br>µg/l | Ethylbenzene<br>µg/l | Toluene<br>µg/l | Xylenes<br>µg/l | Fuel Oxygenates<br>µg/l   | TDS<br>mg/l         |
|--------------------|-------------|---|----------------------------------|----------------------------------|-----------------|----------------------|-----------------|-----------------|---------------------------|---------------------|
| MW-01              | 07/07/09    | < 50  | < 50                             | < 250                            | < 0.5           | < 0.5                | 1.2             | < 0.5           | ND                        | 1,310               |
| UST-01             | 07/07/09    | < 50  | <b>110</b> <sup>b1,e2</sup>      | < 250                            | < 0.5           | < 0.5                | < 0.5           | < 0.5           | ND                        | 618 <sup>b1</sup>   |
| UST-02             | 07/07/09    | <b>390</b>  | <b>150</b> <sup>b1,e2,e7</sup>   | <b>390</b> <sup>b1,e2,e7</sup>   | < 0.5           | < 0.5                | < 0.5           | < 0.5           | 3.1 = TBA<br>others = ND  | 1,120 <sup>b1</sup> |
| UST-03             | 07/07/09    | <50 <sup>1</sup> , <b>960</b> <sup>b1,b6,d7</sup> | <b>29,000</b> <sup>b1,e1</sup>   | <b>17,000</b> <sup>b1,e1</sup>   | < 0.5           | < 0.5                | < 0.5           | < 0.5           | ND                        | 1,180 <sup>b1</sup> |
| UST-04             | 07/07/09    | <b>100</b>  | <b>2,000</b> <sup>b1,e3,e7</sup> | <b>1,700</b> <sup>b1,e3,e7</sup> | < 0.5           | < 0.5                | < 0.5           | < 0.5           | ND                        | 659 <sup>b1</sup>   |
| TR-1-GW            | 01/23/08    | < 50  | < 109                            | < 218                            | 1.17            | < 0.5                | 1.23            | < 1.50          | ND                        | --                  |
| TR-4-GW            | 01/23/08    | < 50  | < 103                            | < 206                            | < 0.5           | < 0.5                | 1.61            | < 1.50          | ND                        | --                  |
| TR-17              | 03/05/08    | --  | --                               | --                               | < 5.5           | < 5.5                | < 5.5           | < 16.5          | DIPE = 352<br>Others = ND | --                  |
| TR-17 <sup>2</sup> | 03/17/08    | 656y  | --                               | --                               | < 5.5           | < 5.5                | < 5.5           | < 16.5          | DIPE = 292<br>Others = ND | --                  |
| TR-18              | 03/04/08    | --  | --                               | --                               | < 0.74          | < 0.74               | 3.07            | 2.35            | ND                        | --                  |
| TR-19-GW           | 04/17/08    | --  | --                               | --                               | < 0.69          | < 0.69               | < 0.69          | < 2.07          | ND                        | --                  |
| ESL-R (Table A)    |             | 100   | 100                              | 100                              | 1               | 30                   | 40              | 20              | TBA = 12<br>DIPE = NE     |                     |

**Notes:**

-- = not analyzed                      µg/l -micrograms per liter                      mg/l - milligrams per liter  
 ND = not detected above laboratory reporting limit, reporting limit varies - see laboratory report  
 NE = not established

< 50 = not detected above laboratory reporting limit

TBA = t-Butyl alcohol

TPH-g = Total Petroleum Hydrocarbons quantified as gasoline by EPA Method 8260B

TPH-d = Total Petroleum Hydrocarbons quantified as diesel fuel by EPA Method 8015B

TPH-mo = Total Petroleum Hydrocarbons quantified as motor oil by EPA Method 8015B

TDS = total dissolved solids by EPA Method SM2540C

ESL = Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater by the San Francisco Bay Regional Water Quality Control Board (2007, revised May 2008).

ESL-R (Table A): Shallow soils (less than 10 feet bgs) where groundwater is a current or potential source of drinking water for residential land use (SF-RWQCB, May 2008)

Concentrations in **bold** exceed their respective ESL

**Footnote:**

1. Groundwater collected from UST-3 was initially analyzed for TPH-g by method 8260 and the resulting concentration was below laboratory reporting limits (< 50 µg/L). Groundwater stabilized in UST-3 over a period of 9 hours, was sampled again, and was subsequently analyzed for TPH-q using method 8015; the result was 960 µg/L

2. Groundwater sample from TR-17 was reanalyzed on 17 March 2008 for TPH-g, BTEX, and fuel oxygenates

b1 = aqueous sample that contains greater than ~1 vol. % sediment

b6 = lighter than water immiscible sheen/product is present

d7 = strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

e1 = unmodified or weakly modified diesel is significant

e2 = diesel range compounds are significant; no recognizable pattern

e3 = aged diesel is significant

e7 = oil range compounds are significant

y = laboratory flag indicating that the reported concentration is DIPE which was detected within the TPH-g range

**FIGURES**



Base map: The Thomas Guide  
Alameda County  
2002

0 1/4 1/2 Mile

Approximate scale



**5812 HOLLIS STREET**  
Emeryville, California

**SITE LOCATION MAP**

**Treadwell&Rollo**

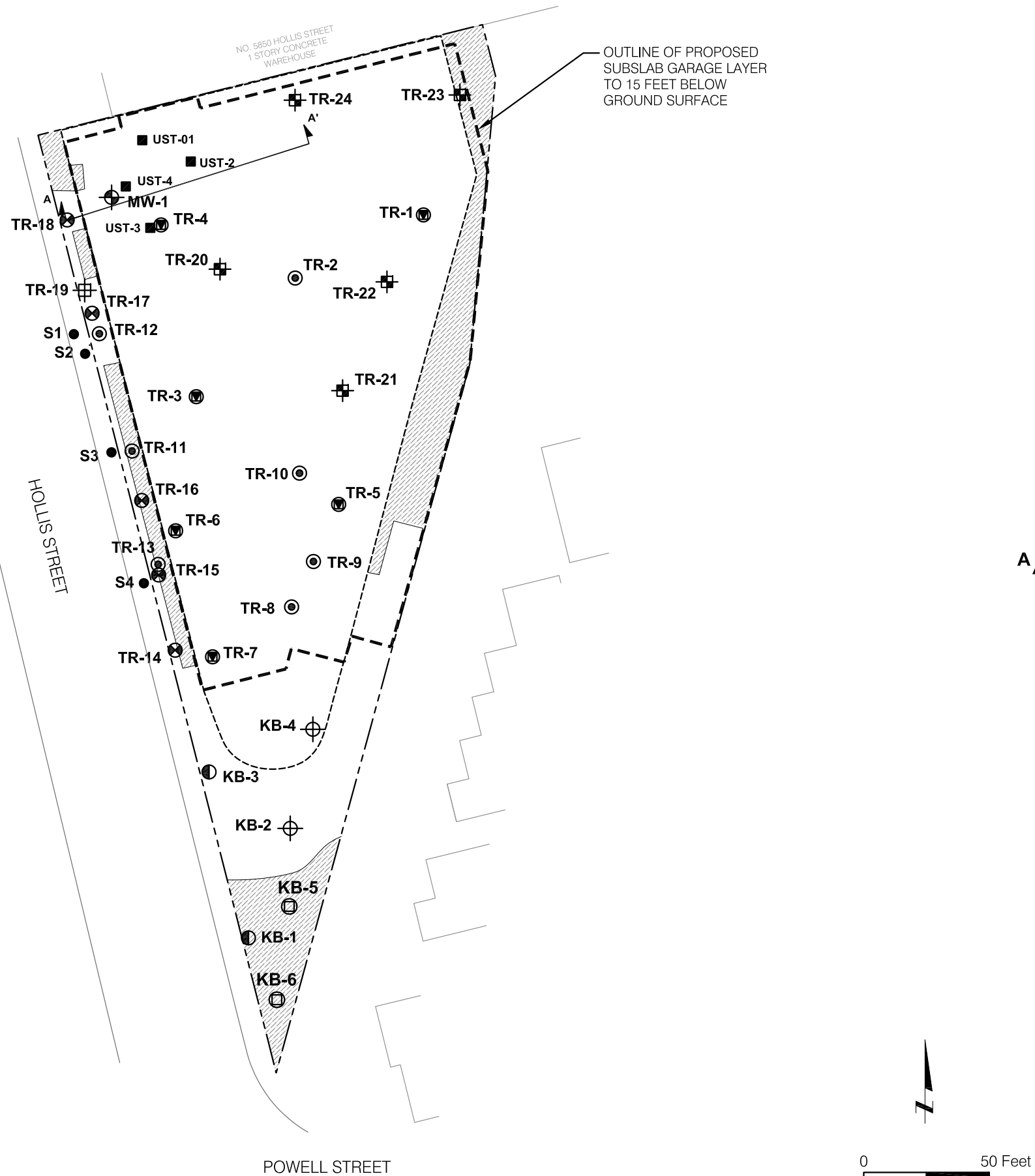
Date 01/12/10

Project No. 4823.02

Figure 1

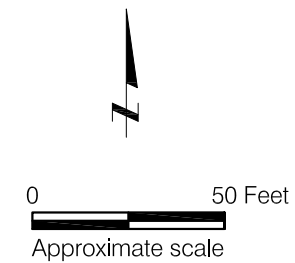
S:\Trgraphics-Oak\4800's\4823.02\January 2010 Figures\OAK-482302\_Soil and GW Sampling Loc-FIG 2.dwg 1/12/10

Reference: www.terraserver-usc.com, 2006.



**EXPLANATION**

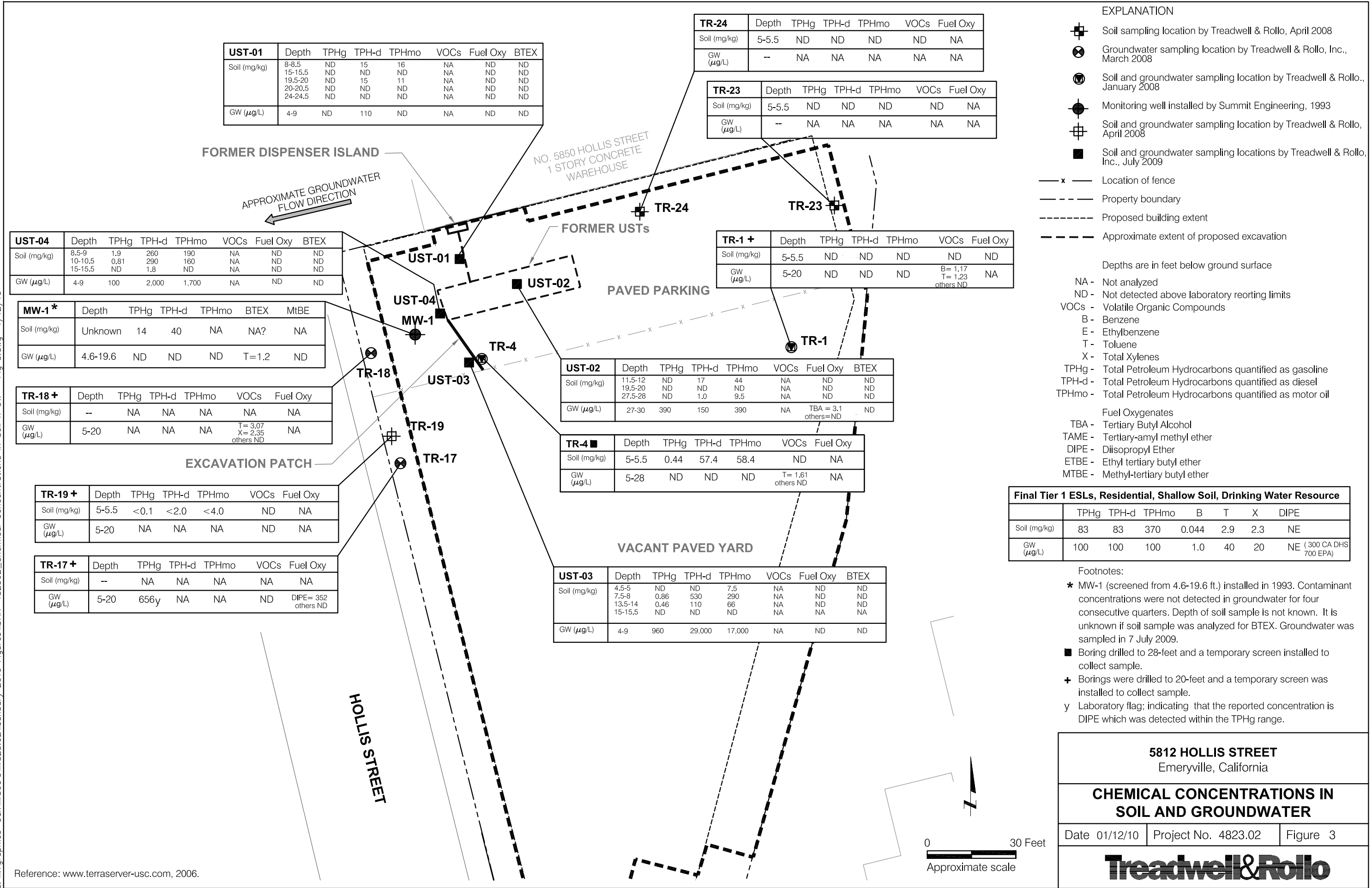
- ⊗ Groundwater sampling locations by Treadwell & Rollo, Inc., March 2008
- ⊙ Soil sampling location by Treadwell & Rollo, Inc., January 2008
- ⊕ Soil and groundwater sampling location by Treadwell & Rollo, Inc., January 2008
- ⊠ Soil sampling location by Treadwell & Rollo, Inc., April 2008
- ⊡ Soil and groundwater sampling location by Treadwell & Rollo, Inc., April 2008
- Previous sampling locations by Kleinfelder in 2006
- ⊕ Soil sampling location by Kleinfelder in March 2009
- ⊕ Soil and groundwater sampling locations by Kleinfelder in March 2009
- ⊕ Monitoring well installed by Summit Engineering, 1993
- Soil and groundwater sampling locations by Treadwell & Rollo, Inc., July 2009
- ⊙ Soil sampling locations by Treadwell & Rollo, Inc., October 2009
- - - Property boundary
- A A' Idealized cross section location



|   |                     |          |
|---|---------------------|----------|
| <b>5812 HOLLIS STREET</b><br>Emeryville, California |                     |          |
| <b>SOIL AND GROUNDWATER SAMPLING LOCATIONS</b>      |                     |          |
| Date 01/12/10                                       | Project No. 4823.02 | Figure 2 |
| <b>Treadwell &amp; Rollo</b>                        |                     |          |



S:\Trgraphics-Oak\4800's\4823.02\January 2010 Figures\OAK-4823.02\_Chemical Concentrations in Soil n. GW - Fig 3.dwg 1/12/10



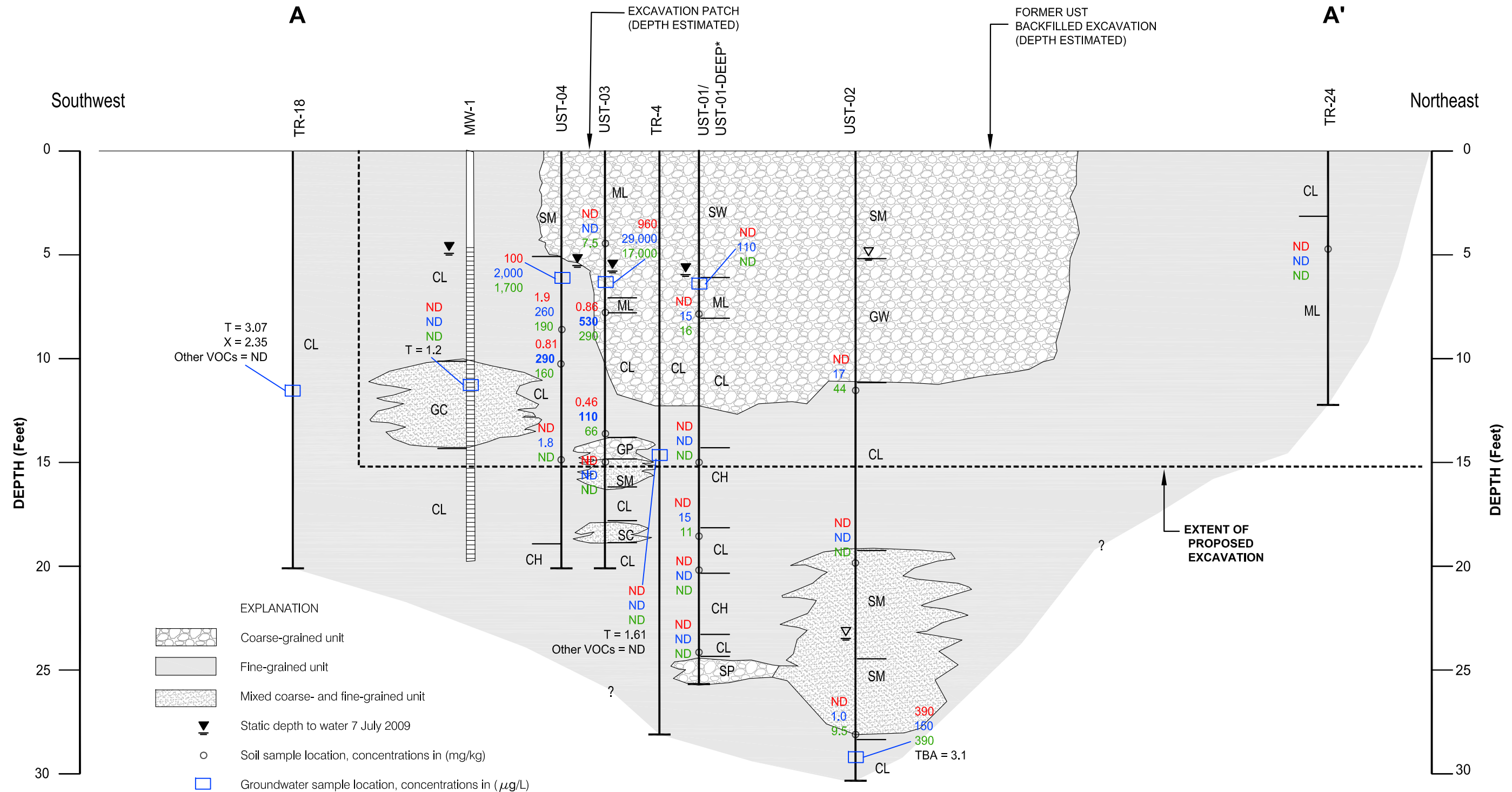
**5812 HOLLIS STREET**  
Emeryville, California

**CHEMICAL CONCENTRATIONS IN SOIL AND GROUNDWATER**

|               |                     |          |
|---------------|---------------------|----------|
| Date 01/12/10 | Project No. 4823.02 | Figure 3 |
|---------------|---------------------|----------|

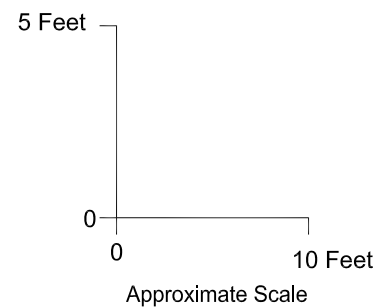
**Treadwell & Rollo**

S:\Trgraphics-Oak\4800's\4823.02\January 2009\_Figures\4823.02\_Conceptual Subsurface Profile A-A' to C-C'.dwg 1/12/10



- EXPLANATION**
- Coarse-grained unit
  - Fine-grained unit
  - Mixed coarse- and fine-grained unit
  - Static depth to water 7 July 2009
  - Soil sample location, concentrations in (mg/kg)
  - Groundwater sample location, concentrations in ( $\mu\text{g/L}$ )
- TPHg - Total Petroleum Hydrocarbons quantified as gasoline  
TPHd - Total Petroleum Hydrocarbons quantified as diesel  
TPHmo - Total Petroleum Hydrocarbons quantified as motor oil  
 B - Benzene  
 E - Ethylbenzene  
 T - Toluene  
 X - Total Xylenes  
 TBA - Tertiary butyl alcohol  
 VOC - Volatile Organic Compounds  
 ND - Not detected above laboratory reporting limit

**NOTES:**  
 \* Lithologic data is based upon UST-01 boring log at 0-20 feet bgs and from UST-01-DEEP at 20-25 feet bgs.  
 MW-1, UST-04, UST03, TR-4, UST-01, UST-02, and former UST backfilled excavation are projected to line of cross section.



|   |                     |          |
|---|---------------------|----------|
| <b>5812 HOLLIS STREET</b><br>Emeryville, California |                     |          |
| <b>CONCEPTUAL SUBSURFACE PROFILE A-A'</b>           |                     |          |
| Date 01/12/10                                       | Project No. 4823.02 | Figure 4 |
| <b>Treadwell &amp; Rollo</b>                        |                     |          |

**APPENDIX A**

**Boring Logs**

|  |                          |
|--|--------------------------|
| Boring location: See Site Plan, Figure 2 | Logged by: T. Campitelli |
| Date started: 7/6/09                     | Date finished: 7/6/09    |
| Drilling method: Geoprobe                |                          |
| Hammer weight/drop: N/A                  | Hammer type: N/A         |

Sampler: Continuous

| DEPTH<br>(feet)     | SAMPLES           |        |            |                   | OVM (ppm) | LITHOLOGY | MATERIAL DESCRIPTION  |
|---------------------|-------------------|--------|------------|-------------------|-----------|-----------|---|
|                     | Sample Number     | Sample | Blow Count | Recovery (inches) |           |           |   |
| Surface Conditions: |                   |        |            |                   |           |           | Asphaltic Concrete (AC)   |
| 1                   |                   |        |            |                   |           | SP        | SAND and GRAVEL (SP)<br>red-brown, wet, sub-rounded gravel, no odor                       |
| 2                   |                   |        |            |                   |           |           |   |
| 3                   |                   |        |            |                   |           |           |   |
| 4                   |                   |        |            |                   |           |           |   |
| 5                   |                   |        |            |                   |           |           | wet   |
| 6                   |                   |        |            |                   |           | ML        | ▼ SANDY SILT (ML)<br>brown, medium dense, moist, no odor<br>GW (07/07/09)                 |
| 7                   |                   |        |            |                   |           |           |   |
| 8                   | UST-01<br>8-8.5   |        |            |                   |           |           | CLAY (CL)<br>gray-brown, soft, moist, weak fuel odor and greenish staining at 8 to 9 feet |
| 9                   |                   |        |            |                   |           |           |   |
| 10                  |                   |        |            |                   |           |           |   |
| 11                  |                   |        |            |                   |           |           |   |
| 12                  |                   |        |            |                   |           |           |   |
| 13                  |                   |        |            |                   |           |           |   |
| 14                  |                   |        |            |                   |           |           |   |
| 15                  | UST-01<br>15-15.5 |        |            |                   |           | CH        | SILTY CLAY (CH)<br>red-brown, stiff, moist, no odor                                       |
| 16                  |                   |        |            |                   |           |           |   |
| 17                  |                   |        |            |                   |           |           |   |
| 18                  |                   |        |            |                   |           |           |   |
| 19                  |                   |        |            |                   |           | CL        | SANDY CLAY (CL)<br>red-brown, stiff, wet, weak solvent/ fuel odor                         |
| 20                  | UST-01<br>19.5-20 |        |            |                   |           |           |   |
| 21                  |                   |        |            |                   |           |           |   |
| 22                  |                   |        |            |                   |           |           |   |
| 23                  |                   |        |            |                   |           |           |   |
| 24                  |                   |        |            |                   |           |           |   |
| 25                  |                   |        |            |                   |           |           |   |
| 26                  |                   |        |            |                   |           |           |   |
| 27                  |                   |        |            |                   |           |           |   |
| 28                  |                   |        |            |                   |           |           |   |
| 29                  |                   |        |            |                   |           |           |   |
| 30                  |                   |        |            |                   |           |           |   |

TEST ENVIRONMENTAL\_482302.GPJ TR.GDT 8/4/09

Boring terminated at a depth of 20 feet.  
Boring backfilled with cement grout.  
Groundwater not encountered during drilling

|                              |             |
|------------------------------|-------------|
| <b>Treadwell &amp; Rollo</b> |             |
| Project No.: 4823.02         | Figure: A-1 |

Boring location: See Site Plan, Figure 2  
 Date started: 7/7/09 Date finished: 7/7/09  
 Drilling method: Geoprobe  
 Hammer weight/drop: N/A Hammer type: N/A

Sampler: Continuous

| DEPTH (feet) | SAMPLES                |        |            |                   | OVM (ppm) | LITHOLOGY | MATERIAL DESCRIPTION   |
|--------------|------------------------|--------|------------|-------------------|-----------|-----------|--|
|              | Sample Number          | Sample | Blow Count | Recovery (inches) |           |           |  |
| 1            |                        |        |            |                   |           |           | Surface Conditions:  |
| 2            |                        |        |            |                   |           | CL        | CLAY (CL)<br>gray, medium dense, dry, no odor [FILL]                     |
| 3            |                        |        |            |                   |           |           |  |
| 4            |                        |        |            |                   |           | SP        | CLAYEY SAND (SP)<br>brown, medium dense, moist, no odor                  |
| 5            |                        |        |            |                   |           |           |  |
| 6            |                        |        |            |                   |           | CH        | CLAY (CH)<br>gray, soft, wet, no dor                                     |
| 7            |                        |        |            |                   |           |           | SANDY CLAY (CL)<br>brown, medium stiff, moist, no odor                   |
| 8            |                        |        |            |                   |           |           |  |
| 9            |                        |        |            |                   |           | CL        |  |
| 10           |                        |        |            |                   |           |           |  |
| 11           |                        |        |            |                   |           |           |  |
| 12           |                        |        |            |                   |           |           |  |
| 13           |                        |        |            |                   |           | CH        | CLAY (CH)<br>gray, medium stiff, moist, no odor                          |
| 14           |                        |        |            |                   |           |           |  |
| 15           |                        |        |            |                   |           | CL        | SANDY CLAY (CL)<br>brown, stiff, moist, no odor                          |
| 16           |                        |        |            |                   |           |           |  |
| 17           |                        |        |            |                   |           |           |  |
| 18           |                        |        |            |                   |           | SP        | SANDY GRAVEL (SP)<br>brown, dense, saturated, no odor                    |
| 19           |                        |        |            |                   |           |           |  |
| 20           | UST-01-DEEP<br>20-20.5 |        |            |                   |           | CH        | CLAY (CH)<br>brown, stiff, moist, no odor                                |
| 21           |                        |        |            |                   |           |           |  |
| 22           |                        |        |            |                   |           |           |  |
| 23           |                        |        |            |                   |           | CL        | GRAVELLY CLAY (CL)<br>brown, very stiff, moist, chert fragments, no odor |
| 24           | UST-01-DEEP<br>24-25   |        |            |                   |           | SP        | SAND (SP)<br>brown, medium dense, saturated, no odor                     |
| 25           |                        |        |            |                   |           |           |  |
| 26           |                        |        |            |                   |           |           |  |
| 27           |                        |        |            |                   |           |           |  |
| 28           |                        |        |            |                   |           |           |  |
| 29           |                        |        |            |                   |           |           |  |
| 30           |                        |        |            |                   |           |           |  |

TEST ENVIRONMENTAL 482302.GPJ TR.GDT 8/4/09

Boring terminated at a depth of 25 feet  
 Boring backfilled with cement grout.  
 Groundwater encountered at 15 feet bgs during drilling

**Treadwell & Rollo**

Project No.: 4823.02 Figure: A-2

Boring location: See Site Plan, Figure 2  
 Date started: 7/6/09 Date finished: 7/6/09  
 Drilling method: Geoprobe  
 Hammer weight/drop: N/A Hammer type: N/A  
 Sampler: Continuous

| DEPTH (feet) | SAMPLES           |        |            |                   | OVM (ppm) | LITHOLOGY | MATERIAL DESCRIPTION  |
|--------------|-------------------|--------|------------|-------------------|-----------|-----------|---|
|              | Sample Number     | Sample | Blow Count | Recovery (inches) |           |           |   |
| 1            |                   |        |            |                   |           |           | Surface Conditions:<br>Asphaltic Concrete (AC)  |
| 2            |                   |        |            |                   |           | SP        | SAND (SP)<br>dark brown, loose, dry, no odor [FILL]   |
| 3            |                   |        |            |                   |           |           |   |
| 4            |                   |        |            |                   |           |           |   |
| 5            |                   |        |            |                   |           |           | ▽   |
| 6            |                   |        |            |                   |           | GP        | GRAVEL (GP)<br>gray, medium dense, saturated, no odor [FILL]                                    |
| 7            |                   |        |            |                   |           |           |   |
| 8            |                   |        |            |                   |           |           |   |
| 9            |                   |        |            |                   |           |           |   |
| 10           |                   |        |            |                   |           |           |   |
| 11           |                   |        |            |                   |           |           |   |
| 12           | UST-02<br>11.5-12 |        |            |                   |           | CL        | CLAY (CL)<br>light brown, stiff, dry, no odor   |
| 13           |                   |        |            |                   |           |           |   |
| 14           |                   |        |            |                   |           |           |   |
| 15           |                   |        |            |                   |           |           |   |
| 16           |                   |        |            |                   |           |           |   |
| 17           |                   |        |            |                   |           |           |   |
| 18           |                   |        |            |                   |           |           |   |
| 19           |                   |        |            |                   |           |           |   |
| 20           | UST-02<br>19.5-20 |        |            |                   |           | SP        | GRAVELLY SAND (SP)<br>dark brown, medium dense, wet, no odor                                    |
| 21           |                   |        |            |                   |           |           |   |
| 22           |                   |        |            |                   |           |           |   |
| 23           |                   |        |            |                   |           |           | ▽ GW (07/07/09)<br>Groundwater depth measured in hydropunch sampler                             |
| 24           |                   |        |            |                   |           |           |   |
| 25           |                   |        |            |                   |           | SP        | SAND (SP)<br>red-brown, medium dense, saturated, no odor  |
| 26           |                   |        |            |                   |           |           |   |
| 27           |                   |        |            |                   |           |           |   |
| 28           | UST-02<br>27.5-28 |        |            |                   |           | CL        | CLAY (CL)<br>light brown, medium dense, wet, gray mottling with black weathered clasts, no odor |
| 29           |                   |        |            |                   |           |           |   |
| 30           |                   |        |            |                   |           |           |   |

TEST ENVIRONMENTAL 482302.GPJ TR.GDT 8/4/09

Boring terminated at a depth of 30 feet.  
 Boring backfilled with cement grout.  
 Groundwater encountered at 5 feet bgs during drilling

**Treadwell&Rollo**

|              |         |         |     |
|--------------|---------|---------|-----|
| Project No.. | 4823.02 | Figure: | A-3 |
|--------------|---------|---------|-----|

|  |                          |
|--|--------------------------|
| Boring location: See Site Plan, Figure 2 | Logged by: T. Campitelli |
| Date started: 7/6/09                     | Date finished: 7/6/09    |
| Drilling method: Geoprobe                |                          |
| Hammer weight/drop: N/A                  | Hammer type: N/A         |

Sampler: Continuous

| DEPTH<br>(feet) | SAMPLES           |        |            |                   | OVM (ppm) | LITHOLOGY | MATERIAL DESCRIPTION  |
|-----------------|-------------------|--------|------------|-------------------|-----------|-----------|---|
|                 | Sample Number     | Sample | Blow Count | Recovery (inches) |           |           |   |
| 1               |                   |        |            |                   |           |           | Surface Conditions:   |
| 2               |                   |        |            |                   |           |           | SANDY CLAY (CL)<br>brown, loose, moist, no odor   |
| 3               |                   |        |            |                   |           | CL        |   |
| 4               |                   |        |            |                   |           |           |   |
| 5               | UST-03<br>4-4.5   |        |            |                   |           |           |   |
| 6               |                   |        |            |                   |           |           | ▼ GW (07/07/09)   |
| 7               |                   |        |            |                   |           | ML        | SILT (ML)<br>brown, medium stiff, dry, no odor  |
| 8               | UST-03<br>7.5-8   |        |            |                   |           | CL        | CLAY (CL)<br>green, moist, weak fuel odor<br>black staining                                 |
| 9               |                   |        |            |                   |           |           |   |
| 10              |                   |        |            |                   |           |           | CLAY (CL)<br>gray-brown, very stiff, moist, no odor   |
| 11              |                   |        |            |                   |           | CL        |   |
| 12              |                   |        |            |                   |           |           |   |
| 13              |                   |        |            |                   |           |           |   |
| 14              | UST-03<br>13.5-14 |        |            |                   |           | GP        | SANDY GRAVEL (GP)<br>green, brown, medium dense, moist, subrounded gravel, strong fuel odor |
| 15              | UST-03<br>15-15.5 |        |            |                   |           | SP        | SAND with GRAVEL (SP)<br>brown, dense, moist, no odor                                       |
| 16              |                   |        |            |                   |           | CL        | CLAY (CL)<br>brown, stiff, moist, no odor   |
| 17              |                   |        |            |                   |           |           |   |
| 18              |                   |        |            |                   |           | SP        | SAND (SP)<br>brown, loose, saturated, no odor   |
| 19              |                   |        |            |                   |           | CL        | CLAY (CL)<br>brown, stiff, moist, no odor   |
| 20              |                   |        |            |                   |           |           |   |
| 21              |                   |        |            |                   |           |           |   |
| 22              |                   |        |            |                   |           |           |   |
| 23              |                   |        |            |                   |           |           |   |
| 24              |                   |        |            |                   |           |           |   |
| 25              |                   |        |            |                   |           |           |   |
| 26              |                   |        |            |                   |           |           |   |
| 27              |                   |        |            |                   |           |           |   |
| 28              |                   |        |            |                   |           |           |   |
| 29              |                   |        |            |                   |           |           |   |
| 30              |                   |        |            |                   |           |           |   |

TEST ENVIRONMENTAL 482302.GPJ TR\_GDT 8/4/09

Boring terminated at a depth of 20 feet  
 Boring backfilled with cement grout.  
 Groundwater not encountered during drilling

|                            |             |
|----------------------------|-------------|
| <b>Treadwell&amp;Rollo</b> |             |
| Project No.: 4823.02       | Figure: A-4 |

PROJECT: **ALDERS PROPERTY**  
Emeryville, California

**Log of Boring UST-04**

Boring location: See Site Plan, Figure 2

Logged by: T. Campitelli

Date started: 7/6/09

Date finished: 7/6/09

Drilling method: Geoprobe

Hammer weight/drop: N/A

Hammer type: N/A

Sampler: Continuous

| DEPTH<br>(feet) | SAMPLES           |        |            |                   | OVM (ppm) | LITHOLOGY | MATERIAL DESCRIPTION   |
|-----------------|-------------------|--------|------------|-------------------|-----------|-----------|--|
|                 | Sample Number     | Sample | Blow Count | Recovery (inches) |           |           |  |
| 1               |                   |        |            |                   |           |           | Asphaltic Concrete (AC)  |
| 2               |                   |        |            |                   |           | SP        | SAND (SP)<br>brown, loose, wet, no odor                                  |
| 3               |                   |        |            |                   |           |           |  |
| 4               |                   |        |            |                   |           |           |  |
| 5               |                   |        |            |                   |           |           |  |
| 6               |                   |        |            |                   |           | CL        | CLAY (CL)<br>light brown, medium stiff, moist, no odor<br>GW (07/07/09)  |
| 7               |                   |        |            |                   |           |           |  |
| 8               |                   |        |            |                   |           |           |  |
| 9               | UST-04<br>8.5-9   |        |            |                   |           | CL        | CLAY (CL)<br>green, medium stiff, moist, moderate fuel odor              |
| 10              | UST-04<br>10-10.5 |        |            |                   |           |           |  |
| 11              |                   |        |            |                   |           |           |  |
| 12              |                   |        |            |                   |           | CL        | GRAVELLY CLAY (CL)<br>brown with gray mottling, very stiff, dry, no odor |
| 13              |                   |        |            |                   |           |           |  |
| 14              |                   |        |            |                   |           |           |  |
| 15              | UST-04<br>15-15.5 |        |            |                   |           | CL        | SANDY CLAY (CL)<br>brown, soft, wet, red weathered clasts, no odor       |
| 16              |                   |        |            |                   |           |           |  |
| 17              |                   |        |            |                   |           |           |  |
| 18              |                   |        |            |                   |           |           |  |
| 19              |                   |        |            |                   |           | CH        | CLAY (CH)<br>brown, stiff, moist, no odor                                |
| 20              |                   |        |            |                   |           |           |  |
| 21              |                   |        |            |                   |           |           |  |
| 22              |                   |        |            |                   |           |           |  |
| 23              |                   |        |            |                   |           |           |  |
| 24              |                   |        |            |                   |           |           |  |
| 25              |                   |        |            |                   |           |           |  |
| 26              |                   |        |            |                   |           |           |  |
| 27              |                   |        |            |                   |           |           |  |
| 28              |                   |        |            |                   |           |           |  |
| 29              |                   |        |            |                   |           |           |  |
| 30              |                   |        |            |                   |           |           |  |

TEST ENVIRONMENTAL 482302.GPJ TR.GDT 8/4/09

Boring terminated at a depth of 20 feet.  
Boring backfilled with cement grout.  
Groundwater not encountered during drilling

|                            |             |
|----------------------------|-------------|
| <b>Treadwell&amp;Rollo</b> |             |
| Project No.: 4823.02       | Figure: A-5 |














**UNIFIED SOIL CLASSIFICATION SYSTEM**

| Major Divisions   |  | Symbols                             | Typical Names  |
|---|--|-------------------------------------|--|
| Coarse-Grained Soils<br>(more than half of soil > no. 200 sieve size) | <b>Gravels</b><br>(More than half of coarse fraction > no. 4 sieve size) | <b>GW</b>                           | Well-graded gravels or gravel-sand mixtures, little or no fines                      |
|   |  | <b>GP</b>                           | Poorly-graded gravels or gravel-sand mixtures, little or no fines                    |
|   |  | <b>GM</b>                           | Silty gravels, gravel-sand-silt mixtures   |
|   |  | <b>GC</b>                           | Clayey gravels, gravel-sand-clay mixtures  |
|   | <b>Sands</b><br>(More than half of coarse fraction < no. 4 sieve size)   | <b>SW</b>                           | Well-graded sands or gravelly sands, little or no fines                              |
|   |  | <b>SP</b>                           | Poorly-graded sands or gravelly sands, little or no fines                            |
|   |  | <b>SM</b>                           | Silty sands, sand-silt mixtures  |
|   |  | <b>SC</b>                           | Clayey sands, sand-clay mixtures   |
| Fine-Grained Soils<br>(more than half of soil < no. 200 sieve size)   | <b>Silts and Clays</b><br>LL = < 50                                      | <b>ML</b>                           | Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts      |
|   |  | <b>CL</b>                           | Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays |
|   |  | <b>OL</b>                           | Organic silts and organic silt-clays of low plasticity                               |
|   | <b>Silts and Clays</b><br>LL = > 50                                      | <b>MH</b>                           | Inorganic silts of high plasticity   |
|   |  | <b>CH</b>                           | Inorganic clays of high plasticity, fat clays  |
|   |  | <b>OH</b>                           | Organic silts and clays of high plasticity   |
| <b>Highly Organic Soils</b>   | <b>PT</b>  | Peat and other highly organic soils |  |

**SAMPLE DESIGNATIONS/SYMBOLS**

| GRAIN SIZE CHART                 |                                       |                                 |
|----------------------------------|---------------------------------------|---------------------------------|
| Classification                   | Range of Grain Sizes                  |                                 |
|                                  | U.S. Standard Sieve Size              | Grain Size in Millimeters       |
| Boulders                         | Above 12"                             | Above 305                       |
| Cobbles                          | 12" to 3"                             | 305 to 76.2                     |
| Gravel<br>coarse<br>fine         | 3" to No. 4                           | 76.2 to 4.76                    |
|                                  | 3" to 3/4"<br>3/4" to No. 4           | 76.2 to 19.1<br>19.1 to 4.76    |
| Sand<br>coarse<br>medium<br>fine | No. 4 to No. 200                      | 4.76 to 0.075                   |
|                                  | No. 4 to No. 10                       | 4.76 to 2.00                    |
|                                  | No. 10 to No. 40<br>No. 40 to No. 200 | 2.00 to 0.420<br>0.420 to 0.075 |
| Silt and Clay                    | Below No. 200                         | Below 0.075                     |

-  Sample taken with Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter. Darkened area indicates soil recovered
-  Classification sample taken with Standard Penetration Test sampler
-  Undisturbed sample taken with thin-walled tube
-  Disturbed sample
-  Sampling attempted with no recovery
-  Core sample
-  Analytical laboratory sample
-  Sample taken with Direct Push sampler
-  Sonic

-  Unstabilized groundwater level
-  Stabilized groundwater level

**SAMPLER TYPE**

- |  |   |
|--|---|
| <b>C</b> Core barrel   | <b>PT</b> Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube   |
| <b>CA</b> California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter | <b>S&amp;H</b> Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter          |
| <b>D&amp;M</b> Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube            | <b>SPT</b> Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter |
| <b>O</b> Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube               | <b>ST</b> Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure                            |

ALDERS PROPERTY  
Emeryville, California

**CLASSIFICATION CHART**

**Treadwell & Rollo**

Date 08/07/09    Project No. 4823.02    Figure A-6

**APPENDIX B**

**Groundwater Sampling and  
Well Development Field Forms**

## MONITORING WELL DEVELOPMENT FORM

Project Number: 4823.02  
 Project Name: 5812 Hollis, Alders  
 Well ID: MW-1  
 Date: 4-24-09  
 Developed by: J. Gebar

Depth to Water: 4.66  
 Total Depth of Well: 19.1  
 Well Diameter: 2"  
 Total Volume Removed: 27 gal.  
 Method of Developing: Surge + Pump

Minimum volume to be removed:  $V = (\text{Total Depth of Well} - \text{Depth to Water}) * (\text{Volume gal/ft}) * (\# \text{ of Casing Volumes})$

$$V = (19.1 \text{ ft} - 4.66 \text{ ft}) * (.164 \text{ gal/ft}) * (10)$$

$$V = 24 \text{ gal}$$

| Well Diameter (in) | 0.52"  | 1.0"   | 2.0"   | 3.0"   | 4.0"   | 5.0"   | 6.0"   |
|--------------------|--------|--------|--------|--------|--------|--------|--------|
| Volume (gal/ft)    | 0.0157 | 0.0409 | 0.1636 | 0.3682 | 0.6545 | 1.0227 | 1.4726 |

### WELL PURGING INFORMATION

| TIME | CUMULATIVE VOL REMOVED | TEMP (°C) | D.O. (mg/L) | pH (units) | O.R.P. (mV) | COND (µS) | REMARKS (color, turbidity, sediment) |
|------|------------------------|-----------|-------------|------------|-------------|-----------|--------------------------------------|
| 1447 | 0                      | 23.2      | 3.73        | 7.10       | 160         | 2340      | opaque brn                           |
| 1451 | 2.4                    | 21.6      | 1.72        | 7.09       | 117         | 2278      | opaque brn                           |
| 1455 | 5.0                    | 20.9      | 1.38        | 7.11       | 196         | 2425      | trans. brn                           |
| 1458 | 7.5                    | 21.0      | 1.50        | 7.00       | 170         | 2421      | trans. brn                           |
| 1502 | 10.0                   | 20.3      | 1.26        | 6.92       | 172         | 2312      | trans. brn                           |
| 1504 | 13.0                   | 20.6      | 1.25        | 6.81       | 148         | 2435      | trans. brn                           |
| 1509 | 16.0                   | 20.4      | 1.23        | 6.91       | 150         | 2425      | trans. brn.                          |
| 1512 | 19.0                   | 20.1      | 1.34        | 6.93       | 180         | 2546      | trans. brn                           |
| 1517 | 22.0                   | 20.0      | 1.40        | 6.95       | 195         | 2375      | trans. brn                           |
| 1520 | 24.0                   | 19.8      | 1.39        | 6.98       | 196         | 2380      | lightly trans. brn                   |
| 1523 | 27.0                   | 19.7      | 1.34        | 6.96       | 197         | 2450      | lightly trans. brn                   |
|      |                        |           |             |            |             |           |                                      |
|      |                        |           |             |            |             |           |                                      |
|      |                        |           |             |            |             |           |                                      |

Remarks:

PROJECT ALDERS PROPERTY  
 SUBJECT MW-01 LOW FLOW SAMPLING DATA SHEET

Initial WL = 4.78 (tubing not yet in well)  
 Begin Pumping WL = 4.75

| TIME | ft<br>WL       | PH   | °C<br>TEMP | s/m<br>COND | mV<br>ORP | mg/L<br>DO | NTU<br>TURB | ml/min<br>FLOW |
|------|----------------|------|------------|-------------|-----------|------------|-------------|----------------|
| 1800 | 4.97           | 6.3  | 19.7       | 0.22        | 242       | 1.6        | 15          | 250            |
| 1807 | 4.96           | 6.33 | 19.8       | 0.223       | 220       | 1.13       | 16          | 150            |
| 1810 | 4.96           | 6.32 | 19.80      | 0.223       | 216       | 1.07       | 15          | 150            |
| 1815 | 4.99           | 6.30 | 19.70      | 0.229       | 203       | 0.91       | 15.8        | 150            |
| 1820 | 5.01           | 6.29 | 19.63      | 0.229       | 196       | 0.85       | 31.2        | 150            |
| 1825 | 5.02           | 6.29 | 19.68      | 0.228       | 186       | 0.81       | 29.2        | 150            |
| 1830 | 5.04           | 6.29 | 19.80      | 0.226       | 177       | 0.77       | 23.9        | 150            |
| 1835 | 5.06           | 6.28 | 19.68      | 0.226       | 171       | 0.75       | 24.8        | 150            |
| 1840 | 5.07           | 6.28 | 19.73      | 0.225       | 166       | 0.73       | 22.5        | 150            |
| 1845 | 5.08           | 6.28 | 19.74      | 0.225       | 162       | 0.72       | 19.9        | 150            |
| 1850 | 5.09           | 6.28 | 19.62      | 0.225       | 157       | 0.72       | 20.5        | 150            |
| 1855 | 5.11           | 6.28 | 19.67      | 0.225       | 152       | 0.70       | 18.5        | 150            |
| 1900 | 5.11           | 6.28 | 19.63      | 0.226       | 150       | 0.71       | 18.8        | 150            |
| 1905 | 5.12           | 6.28 | 19.60      | 0.225       | 149       | 0.68       | 17.4        | 150            |
| 1910 | 5.13           | 6.28 | 19.52      | 0.227       | 149       | 0.67       | 17.7        | 150            |
| 1915 | 5.12           | 6.28 | 19.49      | 0.228       | 148       | 0.68       | 19.1        | 150            |
| 1920 | 5.12           | 6.27 | 19.41      | 0.229       | 150       | 0.68       | 21.5        | 150            |
| 1930 | - Sample MW-01 |      |            |             |           |            |             |                |

**APPENDIX C**

**Laboratory Analytical Reports**



**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Web: [www.mccampbell.com](http://www.mccampbell.com) E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)  
Telephone: 877-252-9262 Fax: 925-252-9269

|  |  |                          |
|--|--|--------------------------|
| Treadwell & Rollo<br>501 14Th Street, 3rd Floor<br>Oakland, CA 94612 | Client Project ID: #4823.02; 5812 Hollis-Alders Property | Date Sampled: 07/08/09   |
|  | Client Contact: Matt Hall                                | Date Received: 07/08/09  |
|  | Client P.O.:   | Date Reported: 07/13/09  |
|  |  | Date Completed: 07/22/09 |

**WorkOrder: 0907195**

July 22, 2009

Dear Matt:

Enclosed within are:

- 1) The results of the 5 analyzed samples from your project: **#4823.02; 5812 Hollis-Alders Prope**
- 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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.

# Treadwell & Rollo

Environmental and Geotechnical Consultant

## CHAIN OF CUSTODY RECORD

0907195

Page \_\_\_ of \_\_\_

555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415.955.9040/Fax: 415.955.9041  
 501 14th Street, Third Floor, Oakland CA 94612 Ph: 510.874.4500/Fax: 510.874.4507  
 777 Campus Commons Rd., Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7412

Site Name: 502 HOLLI'S - ALDERS PROPERTY

Job Number: HR25-02

Project Manager/Contact: MATT HALL

Samplers: THOMAS CAMPITELLI

Recorder (Signature Required): Thomas A. Campbell

|   |
|---|
| <b>Turnaround</b><br>Time<br><u>3 - DAY</u> |
|---|

| Field Sample Identification No. | Date    | Time   | Lab Sample No. | Matrix |       |       | No. Containers & Preservative |                                |                  |     |       | Analysis Requested |                   |                    |           |                       |         | Silica gel clean-up | Hold | Remarks |                    |  |  |  |  |  |  |
|---------------------------------|---------|--------|----------------|--------|-------|-------|-------------------------------|--------------------------------|------------------|-----|-------|--------------------|-------------------|--------------------|-----------|-----------------------|---------|---------------------|------|---------|--------------------|--|--|--|--|--|--|
|                                 |         |        |                | Soil   | Water | Other | HCL                           | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | Ice | Other | LEAD, CHROMIUM     | STL - LEAD, CHROM | TCLP - LEAD, CHROM | STL Cr Pb | STL Cr / As / Cd / Ni | TCLP Pb |                     |      |         | TCLP Cr / Per / Ni |  |  |  |  |  |  |
| T1                              | 0-0.5   | 7/8/09 | 9:10           | X      |       |       |                               |                                |                  |     |       |                    | X                 | X                  | X         |                       |         |                     |      |         |                    |  |  |  |  |  |  |
| T1                              | 2.0-2.5 | 7/8/09 | 9:12           | X      |       |       |                               |                                |                  |     |       |                    | X                 |                    |           | X                     | X       | X                   |      |         |                    |  |  |  |  |  |  |
| T2                              | 0-0.5   | 7/8/09 | 9:01           | X      |       |       |                               |                                |                  |     |       |                    | X                 | X                  | X         |                       |         |                     |      |         |                    |  |  |  |  |  |  |
| T2                              | 2.0-2.5 | 7/8/09 | 9:08           | X      |       |       |                               |                                |                  |     |       |                    | X                 |                    |           |                       |         |                     |      |         |                    |  |  |  |  |  |  |
| T3                              | 0-0.5   | 7/8/09 | 8:52           | X      |       |       |                               |                                |                  |     |       |                    | X                 | X                  | X         |                       |         |                     |      |         |                    |  |  |  |  |  |  |
| T3                              | 2.0-2.5 | 7/8/09 | 9:00           | X      |       |       |                               |                                |                  |     |       |                    | X                 |                    |           |                       |         |                     |      |         |                    |  |  |  |  |  |  |
| T4                              | 0-0.5   | 7/8/09 | 8:35           | X      |       |       |                               |                                |                  |     |       |                    | X                 | X                  | X         |                       |         |                     |      |         |                    |  |  |  |  |  |  |
| T4                              | 2.0-2.5 | 7/8/09 | 8:50           | X      |       |       |                               |                                |                  |     |       |                    | X                 |                    |           | X                     | X       |                     |      |         |                    |  |  |  |  |  |  |
| T5                              | 0-0.5   | 7/8/09 | 8:25           | X      |       |       |                               |                                |                  |     |       |                    | X                 | X                  | X         |                       |         |                     |      |         |                    |  |  |  |  |  |  |
| T5                              | 2.0-2.5 | 7/8/09 | 8:30           | X      |       |       |                               |                                |                  |     |       |                    | X                 |                    |           | X                     | X       |                     |      |         |                    |  |  |  |  |  |  |
| T6                              | 0-0.5   | 7/8/09 | 9:15           | X      |       |       |                               |                                |                  |     |       |                    | X                 |                    | X         | X                     | X       | X                   |      |         |                    |  |  |  |  |  |  |
| T7                              | 0-0.5   | 7/8/09 | 9:16           | X      |       |       |                               |                                |                  |     |       |                    | X                 |                    |           | X                     | X       | X                   |      |         |                    |  |  |  |  |  |  |

|   |                       |                      |  |                       |                        |
|---|-----------------------|----------------------|--|-----------------------|------------------------|
| Relinquished by: (Signature)<br><u>Thomas A. Campbell</u> | Date<br><u>7/8/09</u> | Time<br><u>15:10</u> | Received by: (Signature)<br><u>Mc Hall</u> | Date<br><u>7/8/09</u> | Time<br><u>15:10</u>   |
| Relinquished by: (Signature)<br><u>Thomas A. Campbell</u> | Date<br><u>7/8/09</u> | Time<br><u>4:10</u>  | Received by: (Signature)<br><u>Mc Hall</u> | Date<br><u>7/8/09</u> | Time<br><u>4:10 PM</u> |
| Relinquished by: (Signature)                              | Date                  | Time                 | Received by Lab: (Signature)               | Date                  | Time                   |

Sent to Laboratory (Name): MC CAMPBELL

Laboratory Comments/Notes:

Method of Shipment:  Lab courier  Fed Ex  Airborne  UPS  
 Hand Carried  Private Courier (Co. Name)

ICE # 42c White Copy - Original Yellow Copy - Laboratory Pink Copy - Field COC Number: 006767

GOOD CONDITION  APPROPRIATE CONTAINERS   
 HEAD SPACE ABSENT  PRESERVED IN LAB   
 DECHLORINATED IN LAB   
 PRESERVATION VOAS [O & G] METALS OTHER

**McC Campbell Analytical, Inc.**



1534 Willow Pass Rd  
 Pittsburg, CA 94565-1701  
 (925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 090719 **A** ClientCode: TWRK

WaterTrax  WriteOn  EDF  Excel  Fax  Email  HardCopy  ThirdParty  J-flag

Report to:  
 Matt Hall  
 Treadwell & Rollo  
 501 14Th Street, 3rd Floor  
 Oakland, CA 94612  
 (510) 874-4500 FAX (510) 874-4507

Email: mbhall@treadwellrollo.com  
 cc: tacampitelli@treadwellrollo.com  
 PO:  
 ProjectNo: #4823.02; 5812 Hollis-Alders Property

Bill to:  
 Accounts Payable  
 Treadwell & Rollo  
 501 14Th Street, 3rd Floor  
 Oakland, CA 94612  
 SEND HARDCOPY

Requested TAT: **3 days**  
*Date Received:* 07/08/2009  
*Date Add-On:* 07/17/2009  
*Date Printed:* 07/17/2009

| 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 |  |
| 0907195-002 | T1 2.0-2.5 | Soil   | 7/8/2009 9:12   | <input type="checkbox"/> |                                    | A |   | A |   |   |   |   |   |    |    |    |  |
| 0907195-008 | T4 2.0-2.5 | Soil   | 7/8/2009 8:50   | <input type="checkbox"/> | A                                  |   | A |   |   |   |   |   |   |    |    |    |  |
| 0907195-010 | T5 2.0-2.5 | Soil   | 7/8/2009 8:30   | <input type="checkbox"/> | A                                  |   | A |   |   |   |   |   |   |    |    |    |  |
| 0907195-011 | T6 0-0.5   | Soil   | 7/8/2009 9:15   | <input type="checkbox"/> |                                    | A |   | A |   |   |   |   |   |    |    |    |  |
| 0907195-012 | T7 0-0.5   | Soil   | 7/8/2009 9:16   | <input type="checkbox"/> | A                                  |   |   | A |   |   |   |   |   |    |    |    |  |

Test Legend:

|    |                  |    |                |   |                  |   |                |    |  |
|----|------------------|----|----------------|---|------------------|---|----------------|----|--|
| 1  | STLC_METALS_Soil | 2  | STLC_PBCR_Soil | 3 | TCLP_METALS_Soil | 4 | TCLP_PBCR_Soil | 5  |  |
| 6  |                  | 7  |                | 8 |                  | 9 |                | 10 |  |
| 11 |                  | 12 |                |   |                  |   |                |    |  |

Prepared by: Melissa Valles

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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|  |  |                                   |
|--|--|-----------------------------------|
| Treadwell & Rollo<br><br>501 14Th Street, 3rd Floor<br><br>Oakland, CA 94612 | Client Project ID: #4823.02; 5812 Hollis-Alders Property | Date Sampled: 07/08/09            |
|  | Client Contact: Matt Hall                                | Date Received: 07/08/09           |
|  | Client P.O.:   | Date Extracted: 07/17/09-07/19/09 |
|  |  | Date Analyzed: 07/20/09           |

### ICP Metals\*

Extraction method: CA Title 22

Analytical methods: SW6010C

Work Order: 0907195

| Lab ID       | Client ID  | Matrix | Extraction Type | Chromium | DF | % SS | Comments |
|--------------|------------|--------|-----------------|----------|----|------|----------|
| 0907195-008A | T4 2.0-2.5 | S      | WET             | 0.11     | 1  | N/A  |          |
| 0907195-010A | T5 2.0-2.5 | S      | WET             | 0.24     | 1  | N/A  |          |
| 0907195-012A | T7 0-0.5   | S      | WET             | 0.45     | 1  | N/A  |          |
|              |            |        |                 |          |    |      |          |
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|              |            |        |                 |          |    |      |          |
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|  |   |       |      |      |
|--|---|-------|------|------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | W | TOTAL | NA   | µg/L |
|  | S | WET   | 0.05 | mg/L |

\*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.



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|  |  |                                   |
|--|--|-----------------------------------|
| Treadwell & Rollo<br><br>501 14Th Street, 3rd Floor<br><br>Oakland, CA 94612 | Client Project ID: #4823.02; 5812 Hollis-Alders Property | Date Sampled: 07/08/09            |
|  | Client Contact: Matt Hall                                | Date Received: 07/08/09           |
|  | Client P.O.:   | Date Extracted: 07/17/09-07/19/09 |
|  |  | Date Analyzed: 07/20/09           |

### Lead & Chromium\*

Extraction method: CA Title 22

Analytical methods: SW6010C

Work Order: 0907195

| Lab ID | Client ID  | Matrix | Extraction Type | Chromium | Lead | DF | % SS | Comments |
|--------|------------|--------|-----------------|----------|------|----|------|----------|
| 002A   | T1 2.0-2.5 | S      | WET             | 0.63     | 5.6  | 1  | N/A  |          |
| 011A   | T6 0-0.5   | S      | WET             | 0.23     | 37   | 1  | N/A  |          |
|        |            |        |                 |          |      |    |      |          |
|        |            |        |                 |          |      |    |      |          |
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|   |   |       |      |     |      |
|---|---|-------|------|-----|------|
| Reporting Limit for DF =1;<br>ND means not detected at or above the reporting limit | W | TOTAL | NA   | NA  | NA   |
|   | S | WET   | 0.05 | 0.2 | mg/L |

\*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.

 Angela Rydelius, Lab Manager



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|  |  |                                   |
|--|--|-----------------------------------|
| Treadwell & Rollo<br><br>501 14Th Street, 3rd Floor<br><br>Oakland, CA 94612 | Client Project ID: #4823.02; 5812 Hollis-Alders Property | Date Sampled: 07/08/09            |
|  | Client Contact: Matt Hall                                | Date Received: 07/08/09           |
|  | Client P.O.:   | Date Extracted: 07/17/09-07/18/09 |
|  |  | Date Analyzed: 07/22/09           |

### ICP Metals\*

Extraction method: SW1311

Analytical methods: SW6010C

Work Order: 0907195

| Lab ID       | Client ID  | Matrix | Extraction Type | Chromium | DF | % SS | Comments |
|--------------|------------|--------|-----------------|----------|----|------|----------|
| 0907195-008A | T4 2.0-2.5 | S      | TCLP            | ND       | 1  | N/A  |          |
| 0907195-010A | T5 2.0-2.5 | S      | TCLP            | ND       | 1  | N/A  |          |
|              |            |        |                 |          |    |      |          |
|              |            |        |                 |          |    |      |          |
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|  |   |       |      |      |
|--|---|-------|------|------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | W | TOTAL | NA   | µg/L |
|  | S | TCLP  | 0.05 | mg/L |

\*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.



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|  |  |                                   |
|--|--|-----------------------------------|
| Treadwell & Rollo<br><br>501 14Th Street, 3rd Floor<br><br>Oakland, CA 94612 | Client Project ID: #4823.02; 5812 Hollis-Alders Property | Date Sampled: 07/08/09            |
|  | Client Contact: Matt Hall                                | Date Received: 07/08/09           |
|  | Client P.O.:   | Date Extracted: 07/17/09-07/18/09 |
|  |  | Date Analyzed: 07/22/09           |

### Chromium & Lead\*

Extraction method: SW1311

Analytical methods: SW6010C

Work Order: 0907195


| Lab ID | Client ID  | Matrix | Extraction Type | Chromium | Lead | DF | % SS | Comments |
|--------|------------|--------|-----------------|----------|------|----|------|----------|
| 002A   | T1 2.0-2.5 | S      | TCLP            | ND       | ND   | 1  | N/A  |          |
| 011A   | T6 0-0.5   | S      | TCLP            | ND       | 0.44 | 1  | N/A  |          |
| 012A   | T7 0-0.5   | S      | TCLP            | ND       | 12   | 1  | N/A  |          |
|        |            |        |                 |          |      |    |      |          |
|        |            |        |                 |          |      |    |      |          |
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|   |   |       |      |     |      |
|---|---|-------|------|-----|------|
| Reporting Limit for DF =1;<br>ND means not detected at or above the reporting limit | W | TOTAL | NA   | NA  | NA   |
|   | S | TCLP  | 0.05 | 0.2 | mg/L |

\*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.

 Angela Rydelius, Lab Manager



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## QC SUMMARY REPORT FOR SW6010C

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 44593

WorkOrder: 0907195

| EPA Method SW6010C |        | Extraction CA Title 22 |        |        |        |        |        |          | Spiked Sample ID: N/A   |     |          |     |
|--------------------|--------|------------------------|--------|--------|--------|--------|--------|----------|-------------------------|-----|----------|-----|
| Analyte            | Sample | Spiked                 | MS     | MSD    | MS-MSD | LCS    | LCSD   | LCS-LCSD | Acceptance Criteria (%) |     |          |     |
|                    | mg/L   | mg/L                   | % Rec. | % Rec. | % RPD  | % Rec. | % Rec. | % RPD    | MS / MSD                | RPD | LCS/LCSD | RPD |
| Chromium           | N/A    | 1                      | N/A    | N/A    | N/A    | 98     | 101    | 2.58     | N/A                     | N/A | 80 - 120 | 20  |
| Lead               | N/A    | 1                      | N/A    | N/A    | N/A    | 99.5   | 104    | 4.42     | N/A                     | N/A | 80 - 120 | 20  |

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

### BATCH 44593 SUMMARY

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    | Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    |
|--------------|------------------|----------------|------------------|--------------|------------------|----------------|------------------|
| 0907195-002A | 07/08/09 9:12 AM | 07/17/09       | 07/20/09 2:23 PM | 0907195-008A | 07/08/09 8:50 AM | 07/17/09       | 07/20/09 2:26 PM |
| 0907195-010A | 07/08/09 8:30 AM | 07/17/09       | 07/20/09 2:29 PM | 0907195-011A | 07/08/09 9:15 AM | 07/17/09       | 07/20/09 2:37 PM |
| 0907195-012A | 07/08/09 9:16 AM | 07/17/09       | 07/20/09 2:40 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 SW6010C

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 44630

WorkOrder 0907195

| EPA Method SW6010C |        | Extraction SW1311 |        |        |        |        |        |          | Spiked Sample ID: N/A   |     |          |     |
|--------------------|--------|-------------------|--------|--------|--------|--------|--------|----------|-------------------------|-----|----------|-----|
| Analyte            | Sample | Spiked            | MS     | MSD    | MS-MSD | LCS    | LCSD   | LCS-LCSD | Acceptance Criteria (%) |     |          |     |
|                    | mg/L   | mg/L              | % Rec. | % Rec. | % RPD  | % Rec. | % Rec. | % RPD    | MS / MSD                | RPD | LCS/LCSD | RPD |
| Chromium           | N/A    | 1                 | N/A    | N/A    | N/A    | 96.1   | 96.6   | 0.488    | N/A                     | N/A | 80 - 120 | 20  |
| Lead               | N/A    | 1                 | N/A    | N/A    | N/A    | 92.4   | 98.5   | 6.46     | N/A                     | N/A | 80 - 120 | 20  |

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

#### BATCH 44630 SUMMARY

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed     | Lab ID       | Date Sampled     | Date Extracted | Date Analyzed     |
|--------------|------------------|----------------|-------------------|--------------|------------------|----------------|-------------------|
| 0907195-002A | 07/08/09 9:12 AM | 07/17/09       | 07/22/09 10:13 AM | 0907195-008A | 07/08/09 8:50 AM | 07/17/09       | 07/22/09 10:16 AM |
| 0907195-010A | 07/08/09 8:30 AM | 07/17/09       | 07/22/09 10:19 AM | 0907195-011A | 07/08/09 9:15 AM | 07/17/09       | 07/22/09 10:22 AM |
| 0907195-012A | 07/08/09 9:16 AM | 07/17/09       | 07/22/09 10:30 AM |              |                  |                |                   |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 % Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).  
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons. a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery  
 N/A = not applicable to this method.  
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Web: [www.mccampbell.com](http://www.mccampbell.com) E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)  
Telephone: 877-252-9262 Fax: 925-252-9269

|  |  |                                 |
|--|--|---------------------------------|
| Treadwell & Rollo<br>501 14Th Street, 3rd Floor<br>Oakland, CA 94612 | Client Project ID: #4823.02; 5812 Hollis-Alders Property | Date Sampled: 07/07/09-07/08/09 |
|  | Client Contact: Matt Hall                                | Date Received: 07/08/09         |
|  | Client P.O.:   | Date Reported: 07/13/09         |
|  |  | Date Completed: 07/13/09        |

**WorkOrder: 0907195**

July 13, 2009

Dear Matt:

Enclosed within are:

- 1) The results of the 39 analyzed samples from your project: **#4823.02; 5812 Hollis-Alders Prope**
- 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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.

**CHAIN OF CUSTODY RECORD**

090719S

- 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415.955.9040/Fax: 415.955.9041
- 501 14th Street, Third Floor, Oakland CA 94612 Ph: 510.874.4500/Fax: 510.874.4507
- 777 Campus Commons Rd., Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7412

Site Name: 5012 HOLLIS - ALDERS PROPERTY

Job Number: 4425-02

Project Manager/Contact: MATT HALL

Samplers: THOMAS CAMPITELLI

Recorder (Signature Required): Thomas A. Campbell

Turnaround  
Time  
3 - DAY

| Field Sample Identification No. | Date   | Time | Lab Sample No. | Matrix |       |       | No. Containers & Preservative |                                |                  |     |       | Analysis Requested |                     |                     | Silica gel clean-up | Hold | Remarks |
|---------------------------------|--------|------|----------------|--------|-------|-------|-------------------------------|--------------------------------|------------------|-----|-------|--------------------|---------------------|---------------------|---------------------|------|---------|
|                                 |        |      |                | Soil   | Water | Other | HCL                           | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | Ice | Other | LEAD, CHROMIUM     | SILIC - LEAD, CHROM | TELUR - LEAD, CHROM |                     |      |         |
| T1 0-0.5                        | 7/8/09 | 9:10 |                | X      |       |       |                               |                                |                  |     | X     | X                  | X                   |                     |                     |      |         |
| T1 2.0-2.5                      | 7/8/09 | 9:12 |                | X      |       |       |                               |                                |                  |     | X     |                    |                     |                     |                     |      |         |
| T2 0-0.5                        | 7/8/09 | 9:01 |                | X      |       |       |                               |                                |                  |     | X     | X                  | X                   |                     |                     |      |         |
| T2 2.0-2.5                      | 7/8/09 | 9:08 |                | X      |       |       |                               |                                |                  |     | X     |                    |                     |                     |                     |      |         |
| T3 0-0.5                        | 7/8/09 | 8:52 |                | X      |       |       |                               |                                |                  |     | X     | X                  | X                   |                     |                     |      |         |
| T3 2.0-2.5                      | 7/8/09 | 9:00 |                | X      |       |       |                               |                                |                  |     | X     |                    |                     |                     |                     |      |         |
| T4 0-0.5                        | 7/8/09 | 8:35 |                | X      |       |       |                               |                                |                  |     | X     | X                  | X                   |                     |                     |      |         |
| T4 2.0-2.5                      | 7/8/09 | 8:59 |                | X      |       |       |                               |                                |                  |     | X     |                    |                     |                     |                     |      |         |
| T5 0-0.5                        | 7/8/09 | 8:25 |                | X      |       |       |                               |                                |                  |     | X     | X                  | X                   |                     |                     |      |         |
| T5 2.0-2.5                      | 7/8/09 | 8:30 |                | X      |       |       |                               |                                |                  |     | X     |                    |                     |                     |                     |      |         |
| T6 0-0.5                        | 7/8/09 | 9:15 |                | X      |       |       |                               |                                |                  |     | X     |                    |                     |                     |                     |      |         |
| T7 0-0.5                        | 7/8/09 | 9:16 |                | X      |       |       |                               |                                |                  |     | X     |                    |                     |                     |                     |      |         |

|   |                    |                   |   |                    |                    |
|---|--------------------|-------------------|---|--------------------|--------------------|
| Relinquished by: (Signature) <u>[Signature]</u> | Date <u>7/8/09</u> | Time <u>15:10</u> | Received by: (Signature) <u>[Signature]</u> | Date <u>7/8/09</u> | Time <u>1510</u>   |
| Relinquished by: (Signature) <u>[Signature]</u> | Date <u>7/8/09</u> | Time <u>4:10</u>  | Received by: (Signature) <u>[Signature]</u> | Date <u>7/8/09</u> | Time <u>4:10pm</u> |
| Relinquished by: (Signature)                    | Date               | Time              | Received by Lab: (Signature)                | Date               | Time               |

Sent to Laboratory (Name): MC CAMPBELL Method of Shipment  Lab courier  Fed Ex  Airborne  UPS  
 Hand Carried  Private Courier (Co. Name)

ICE / # 42c White Copy - Original Yellow Copy - Laboratory Pink Copy - Field COC Number: 006767

GOOD CONDITION  APPROPRIATE HEAD SPACE ABSENT  CONTAINERS DECHLORINATED IN LAB  PRESERVED IN LAB

PRESERVATION VOAS  O & G  METALS  OTHER



### McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD  
PITTSBURG, CA 94565-1701

Website: [www.mccampbell.com](http://www.mccampbell.com) Email: [main@mccampbell.com](mailto:main@mccampbell.com)  
Telephone: (877) 252-9262 Fax: (925) 252-9269

### CHAIN OF CUSTODY RECORD

TURN AROUND TIME       
 GeoTracker EDF  PDF  Excel  Write On (DW)

RUSH  24 HR  48 HR  72 HR  5 DAY

Report To: Matthew Hall Bill To: Matthew Hall  
 Company: Treadwell & Rollo, Inc.  
 501 14<sup>th</sup> Street, 3<sup>rd</sup> Floor, Oakland, CA 94612  
 E-Mail: [mbhall@treadwellrollo.com](mailto:mbhall@treadwellrollo.com)  
 Tele: ( 510 ) 874-4500 Fax: (510) 874-4507  
 Project #: 4823.02 Project Name: Alders Property  
 Project Location: 5812 Hollis Street, Emeryville, CA  
 Sampler Signature: *Thomas O. O'Connell*

| Analysis Request   |                            |        |       |              |                 |        |  |  |  | Other            |   | Comments |  |            |           |             |               |          |                       |     |      |                    |      |  |  |
|--------------------|----------------------------|--------|-------|--------------|-----------------|--------|--|--|--|------------------|---|----------|--|------------|-----------|-------------|---------------|----------|-----------------------|-----|------|--------------------|------|--|--|
| SAMPLE ID          | LOCATION/ Field Point Name | Date   | Time  | # Containers | Type Containers | MATRIX |  |  |  | METHOD PRESERVED |   |          |  | TOTAL LEAD | LEAD STLC | LEAD - TCLP | TR - G, D, MO | VOC BTEX | VOC - FUEL OXYGENATES | TDS | SNOC | Silica Gel Cleanup | Hold | Filter Samples for Metals analysis: Yes / No |  |
| TR-20E             | 30-35                      | 7/7/09 | 14:00 | 1            | SS              | X      |  |  |  | X                |   |          |  | X          |           |             |               |          |                       |     |      |                    |      |  |  |
| TR-20E             | 25-30                      | 7/7/09 | 13:45 | 1            | SS              | X      |  |  |  | X                |   |          |  | X          | X         | X           |               |          |                       |     |      |                    |      |  |  |
| TR-21A             | 25-30                      | 7/7/09 | 14:35 | 1            | SS              | X      |  |  |  | X                |   |          |  | X          | X         | X           |               |          |                       |     |      |                    |      |  |  |
| TR-21A             | 30-35                      | 7/7/09 | 14:40 | 1            | SS              | X      |  |  |  | X                |   |          |  | X          |           |             |               |          |                       |     |      |                    |      |  |  |
| TR-21B             | 25-30                      | 7/7/09 | 14:55 | 1            | SS              | X      |  |  |  | X                |   |          |  | X          | X         | X           |               |          |                       |     |      |                    |      |  |  |
| TR-21B             | 30-35                      | 7/7/09 | 15:10 | 1            | G               | X      |  |  |  | X                |   |          |  | X          |           |             |               |          |                       |     |      |                    |      |  |  |
| TR-21C             | 30-35                      | 7/7/09 | 15:50 | 1            | G               | X      |  |  |  | X                |   |          |  | X          |           |             |               |          |                       |     |      |                    |      |  |  |
| TR-21C             | 25-30                      | 7/7/09 | 15:55 | 1            | G               | X      |  |  |  | X                |   |          |  | X          | X         | X           |               |          |                       |     |      |                    |      |  |  |
| TR-21D             | 25-30                      | 7/7/09 | 15:30 | 1            | G               | X      |  |  |  | X                |   |          |  | X          | X         | X           |               |          |                       |     |      |                    |      |  |  |
| TR-21D             | 30-35                      | 7/7/09 | 15:45 | 1            | G               | X      |  |  |  | X                |   |          |  | X          |           |             |               |          |                       |     |      |                    |      |  |  |
| TR-21E             | 25-30                      | 7/7/09 | 16:05 | 1            | G               | X      |  |  |  | X                |   |          |  | X          | X         | X           |               |          |                       |     |      |                    |      |  |  |
| UST-1 - DEEP 20    |                            | 7/7/09 | 16:30 | 1            | G               | X      |  |  |  | X                |   |          |  |            |           |             | X             | X        | X                     |     |      |                    | X    |  |  |
| UST-1 - DEEP 21-20 |                            | 7/7/09 | 16:40 | 1            | P               | X      |  |  |  | X                |   |          |  |            |           |             | X             | X        | X                     |     |      |                    | X    |  |  |
| + MW-01            |                            | 7/7/09 | 19:30 | 5            | -               | X      |  |  |  | X                | X |          |  |            |           |             | X             | X        | X                     | X   |      |                    | X    |  |  |

|                                     |              |             |                                 |
|-------------------------------------|--------------|-------------|---------------------------------|
| Relinquished By: <i>[Signature]</i> | Date: 7/7/09 | Time: 15:10 | Received By: <i>[Signature]</i> |
| Relinquished By: <i>[Signature]</i> | Date: 7/7/09 | Time: 4:10  | Received By: <i>[Signature]</i> |
| Relinquished By:                    | Date:        | Time:       | Received By:                    |

ICE/C\*  
 GOOD CONDITION \_\_\_\_\_  
 HEAD SPACE ABSENT \_\_\_\_\_  
 DECHLORINATED IN LAB \_\_\_\_\_  
 APPROPRIATE CONTAINERS \_\_\_\_\_  
 PRESERVED IN LAB \_\_\_\_\_

VOAS O&G METALS OTHER  
 PRESERVATION pff-2

COMMENTS:  
 Please send all scanned COCs for this WO and yesterday's Alders WO to [mcampbell@treadwellrollo.com](mailto:mcampbell@treadwellrollo.com)

## CHAIN OF CUSTODY RECORD

555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415.955.9040/Fax: 415.955.9041  
 501 14th Street, Third Floor, Oakland CA 94612 Ph: 510.874.4500/Fax: 510.874.4507  
 777 Campus Commons Rd., Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7412

Site Name: ALDERS PROPERTY - SB12 HOLLIS  
 Job Number: 4623 02  
 Project Manager/Contact: MATT HALL  
 Samplers: TOM CAMPITELLI  
 Recorder (Signature Required): [Signature]

**Turnaround Time**  
3 - DAY

| Field Sample Identification No.                 | Date   | Time  | Lab Sample No. | Matrix  |       |                   | No. Containers & Preservative |   |                  |     |       |                    |            | Analysis Requested |             |                |     |         | Silica gel clean-up | Hold | Remarks |  |  |  |  |  |  |
|---|--------|-------|----------------|---|-------|-------------------|-------------------------------|---|------------------|-----|-------|--------------------|------------|--------------------|-------------|----------------|-----|---------|---------------------|------|---------|--|--|--|--|--|--|
|   |        |       |                | Soil  | Water | Other             | HCL                           | H <sub>2</sub> SO <sub>4</sub>              | HNO <sub>3</sub> | Ice | Other | NOTE               | TOTAL LEAD | LEAD - STLC        | LEAD - TCLP | TPH - G, D, MO | TDS | TPH - D |                     |      |         |  |  |  |  |  |  |
| TR-21E 25-30                                    | 7/7/09 | 10:00 |                | X   |       |                   |                               |   |                  |     |       |                    |            |                    |             | X              | X   | X       |                     |      |         |  |  |  |  |  |  |
| TR-21E 30-35                                    | 7/7/09 | 10:05 |                | X   |       |                   |                               |   |                  |     |       |                    |            |                    |             | X              |     |         |                     |      |         |  |  |  |  |  |  |
| UST-03  | 7/7/09 | 10:05 |                |   | X     |                   |                               |   |                  |     |       |                    |            |                    |             |                |     | X       | X                   |      |         |  |  |  |  |  |  |
| KB-4A 85-90                                     | 7/8/09 | 10:15 |                | X   |       |                   |                               |   |                  |     |       |                    |            |                    |             |                |     |         |                     |      |         |  |  |  |  |  |  |
| KB-4A 90-9.25                                   | 7/8/09 | 10:20 |                | X   |       |                   |                               |   |                  |     |       |                    |            |                    |             |                |     |         |                     |      |         |  |  |  |  |  |  |
| KB-4B 05-7.0                                    | 7/8/09 | 12:45 |                | X   |       |                   |                               |   |                  |     |       |                    |            |                    |             |                |     |         |                     |      |         |  |  |  |  |  |  |
| KB-4B 8.5-9.0                                   | 7/8/09 | 12:55 |                | X   |       |                   |                               |   |                  |     |       |                    |            |                    |             |                |     |         |                     |      |         |  |  |  |  |  |  |
| KB-4B 10.5-11                                   | 7/8/09 | 13:05 |                | X   |       |                   |                               |   |                  |     |       |                    |            |                    |             |                |     |         |                     |      |         |  |  |  |  |  |  |
| KB-4C 105-11                                    | 7/8/09 | 12:00 |                | X   |       |                   |                               |   |                  |     |       |                    |            |                    |             |                |     |         |                     |      |         |  |  |  |  |  |  |
| KB-4D 75-80                                     | 7/8/09 | 11:15 |                | X   |       |                   |                               |   |                  |     |       |                    |            |                    |             |                |     |         |                     |      |         |  |  |  |  |  |  |
| KB-4D 85-90                                     | 7/8/09 | 11:24 |                | X   |       |                   |                               |   |                  |     |       |                    |            |                    |             |                |     |         |                     |      |         |  |  |  |  |  |  |
| KB-4D 95-100                                    | 7/8/09 | 11:30 |                | X   |       |                   |                               |   |                  |     |       |                    |            |                    |             |                |     |         |                     |      |         |  |  |  |  |  |  |
| KB-4E 10-10.5                                   | 7/8/09 | 12:30 |                | X   |       |                   |                               |   |                  |     |       |                    |            |                    |             |                |     |         |                     |      |         |  |  |  |  |  |  |
| KB-4 DRUM                                       | 7/8/09 | 13:10 |                | X   |       |                   |                               |   |                  |     |       |                    |            |                    |             |                |     |         |                     |      |         |  |  |  |  |  |  |
| Relinquished by: (Signature) <u>[Signature]</u> |        |       |                | Date <u>7/8/09</u>  |       | Time <u>15:10</u> |                               | Received by: (Signature) <u>[Signature]</u> |                  |     |       | Date <u>7/8/09</u> |            | Time <u>15:10</u>  |             |                |     |         |                     |      |         |  |  |  |  |  |  |
| Relinquished by: (Signature) <u>[Signature]</u> |        |       |                | Date <u>7/8/09</u>  |       | Time <u>4:10</u>  |                               | Received by: (Signature) <u>[Signature]</u> |                  |     |       | Date <u>7/8/09</u> |            | Time <u>4:10pm</u> |             |                |     |         |                     |      |         |  |  |  |  |  |  |
| Relinquished by: (Signature)                    |        |       |                | Date  |       | Time              |                               | Received by Lab: (Signature)                |                  |     |       | Date               |            | Time               |             |                |     |         |                     |      |         |  |  |  |  |  |  |
| Sent to Laboratory (Name): <u>MR CAMPRELL</u>   |        |       |                | Method of Shipment <input checked="" type="checkbox"/> Lab courier <input type="checkbox"/> Fed Ex <input type="checkbox"/> Airborne <input type="checkbox"/> UPS |       |                   |                               |   |                  |     |       |                    |            |                    |             |                |     |         |                     |      |         |  |  |  |  |  |  |
| Laboratory Comments/Notes:                      |        |       |                | <input type="checkbox"/> Hand Carried <input type="checkbox"/> Private Courier (Co. Name)   |       |                   |                               |   |                  |     |       |                    |            |                    |             |                |     |         |                     |      |         |  |  |  |  |  |  |


White Copy - Original

Yellow Copy - Laboratory

Pink Copy - Field

COC Number: 006766

# McC Campbell Analytical, Inc.


 1534 Willow Pass Rd  
 Pittsburg, CA 94565-1701  
 (925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 0907195

ClientCode: TWRK

WriteOn   
  EDF   
  Excel   
  Fax   
 Email   
 HardCopy   
 ThirdParty   
 J-flag

**Report to:**

Matt Hall  
 Treadwell & Rollo  
 501 14Th Street, 3rd Floor  
 Oakland, CA 94612  
 (510) 874-4500    FAX (510) 874-4507

Email: mbhall@treadwellrollo.com  
 cc: tacampitelli@treadwellrollo.com  
 PO:  
 ProjectNo: #4823.02; 5812 Hollis-Alders Property

**Bill to:**

Accounts Payable  
 Treadwell & Rollo  
 501 14Th Street, 3rd Floor  
 Oakland, CA 94612  
 SEND HARDCOPY

**Requested TAT: 3 days**

**Date Received: 07/08/2009**

**Date Printed: 07/08/2009**

| 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 |
| 0907195-001 | T1 0-0.5       | Soil   | 7/8/2009 9:10   | <input type="checkbox"/> |                                    |   |   | A |   |   |   | A |   | A  |    |    |
| 0907195-002 | T1 2.0-2.5     | Soil   | 7/8/2009 9:12   | <input type="checkbox"/> |                                    |   |   | A |   |   |   |   |   |    |    |    |
| 0907195-003 | T2 0-0.5       | Soil   | 7/8/2009 9:01   | <input type="checkbox"/> |                                    |   |   | A |   |   |   | A |   | A  |    |    |
| 0907195-004 | T2 2.0-2.5     | Soil   | 7/8/2009 9:08   | <input type="checkbox"/> |                                    |   |   | A |   |   |   |   |   |    |    |    |
| 0907195-005 | T3 0-0.5       | Soil   | 7/8/2009 8:52   | <input type="checkbox"/> |                                    |   |   | A |   |   |   | A |   | A  |    |    |
| 0907195-006 | T3 2.0-2.5     | Soil   | 7/8/2009 9:00   | <input type="checkbox"/> |                                    |   |   | A |   |   |   |   |   |    |    |    |
| 0907195-007 | T4 0-0.5       | Soil   | 7/8/2009 8:35   | <input type="checkbox"/> |                                    |   |   | A |   |   |   | A |   | A  |    |    |
| 0907195-008 | T4 2.0-2.5     | Soil   | 7/8/2009 8:50   | <input type="checkbox"/> |                                    |   |   | A |   |   |   |   |   |    |    |    |
| 0907195-009 | T5 0-0.5       | Soil   | 7/8/2009 8:25   | <input type="checkbox"/> |                                    |   |   | A |   |   |   | A |   | A  |    |    |
| 0907195-010 | T5 2.0-2.5     | Soil   | 7/8/2009 8:30   | <input type="checkbox"/> |                                    |   |   | A |   |   |   |   |   |    |    |    |
| 0907195-011 | T6 0-0.5       | Soil   | 7/8/2009 9:15   | <input type="checkbox"/> |                                    |   |   | A |   |   |   |   |   |    |    |    |
| 0907195-012 | T7 0-0.5       | Soil   | 7/8/2009 9:16   | <input type="checkbox"/> |                                    |   |   |   |   | A |   |   |   |    |    |    |
| 0907195-013 | TR-20E 3.0-3.5 | Soil   | 7/8/2009 14:00  | <input type="checkbox"/> |                                    |   |   |   | A |   |   |   |   |    |    |    |
| 0907195-014 | TR-20E 2.5-3.0 | Soil   | 7/7/2009 13:45  | <input type="checkbox"/> |                                    |   |   |   | A |   | A |   | A |    |    |    |

**Test Legend:**

|    |            |    |                  |   |                  |   |            |    |                |
|----|------------|----|------------------|---|------------------|---|------------|----|----------------|
| 1  | G-MBTEX_W  | 2  | MBTEXOXY-8260B_S | 3 | MBTEXOXY-8260B_W | 4 | METALSMS_S | 5  | PBMS_S         |
| 6  | PBMS_SOLID | 7  | STLC_PB_S        | 8 | STLC_PBCR_Soil   | 9 | TCLP_PB_S  | 10 | TCLP_PBCR_Soil |
| 11 | TDS_W      | 12 | TPH(D)WSG_S      |   |                  |   |            |    |                |

The following SampleIDs: 023A, 024A, 025A, 028A contain testgroup.

Prepared by: Melissa Valles

**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.

**McC Campbell Analytical, Inc.**



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0907195

ClientCode: TWRK

WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

**Report to:**

Matt Hall  
Treadwell & Rollo  
501 14Th Street, 3rd Floor  
Oakland, CA 94612  
(510) 874-4500    FAX (510) 874-4507

Email: mbhall@treadwellrollo.com  
cc: tacampitelli@treadwellrollo.com  
PO:  
ProjectNo: #4823.02; 5812 Hollis-Alders Property

**Bill to:**

Accounts Payable  
Treadwell & Rollo  
501 14Th Street, 3rd Floor  
Oakland, CA 94612  
SEND HARDCOPY

**Requested TAT: 3 days**

**Date Received: 07/08/2009**

**Date Printed: 07/08/2009**

| 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 |
| 0907195-015 | TR-21A 2.5-3.0   | Soil   | 7/7/2009 14:35  | <input type="checkbox"/> |                                    |   |   |   | A |   | A |   | A |    |    |    |
| 0907195-016 | TR-21A 3.0-3.5   | Soil   | 7/7/2009 14:40  | <input type="checkbox"/> |                                    |   |   |   | A |   |   |   |   |    |    |    |
| 0907195-017 | TR-21B 2.5-3.0   | Soil   | 7/7/2009 14:55  | <input type="checkbox"/> |                                    |   |   |   | A |   | A |   | A |    |    |    |
| 0907195-018 | TR-21B 3.0-3.5   | Soil   | 7/7/2009 15:10  | <input type="checkbox"/> |                                    |   |   |   | A |   |   |   |   |    |    |    |
| 0907195-019 | TR-21C 3.0-3.5   | Soil   | 7/7/2009 15:50  | <input type="checkbox"/> |                                    |   |   |   | A |   |   |   |   |    |    |    |
| 0907195-020 | TR-21C 2.5-3.0   | Soil   | 7/7/2009 15:55  | <input type="checkbox"/> |                                    |   |   |   | A |   | A |   | A |    |    |    |
| 0907195-021 | TR-21D 2.5-3.0   | Soil   | 7/7/2009 15:30  | <input type="checkbox"/> |                                    |   |   |   | A |   | A |   | A |    |    |    |
| 0907195-022 | TR-21D 3.0-3.5   | Soil   | 7/7/2009 15:45  | <input type="checkbox"/> |                                    |   |   |   | A |   |   |   |   |    |    |    |
| 0907195-023 | UST-1-Deep-20    | Soil   | 7/7/2009 16:30  | <input type="checkbox"/> |                                    | A |   |   |   |   |   |   |   |    |    |    |
| 0907195-024 | UST-1-Deep 24-25 | Soil   | 7/7/2009 16:40  | <input type="checkbox"/> |                                    | A |   |   |   |   |   |   |   |    |    |    |
| 0907195-025 | MW-01            | Water  | 7/7/2009 19:30  | <input type="checkbox"/> | A                                  |   | B |   |   |   |   |   |   |    |    | C  |
| 0907195-026 | TR-21E 2.5-3.0   | Soil   | 7/7/2009 16:00  | <input type="checkbox"/> |                                    |   |   |   | A |   | A |   | A |    |    |    |
| 0907195-027 | TR-21E 3.0-3.5   | Soil   | 7/7/2009 16:05  | <input type="checkbox"/> |                                    |   |   |   | A |   |   |   |   |    |    |    |
| 0907195-028 | UST-03           | Water  | 7/7/2009 10:05  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    | B  |

**Test Legend:**

|    |            |    |                  |   |                  |   |            |    |                |
|----|------------|----|------------------|---|------------------|---|------------|----|----------------|
| 1  | G-MBTEX_W  | 2  | MBTEXOXY-8260B_S | 3 | MBTEXOXY-8260B_W | 4 | METALSMS_S | 5  | PBMS_S         |
| 6  | PBMS_SOLID | 7  | STLC_PB_S        | 8 | STLC_PBCR_Soil   | 9 | TCLP_PB_S  | 10 | TCLP_PBCR_Soil |
| 11 | TDS_W      | 12 | TPH(D)WSG_S      |   |                  |   |            |    |                |

The following SamplIDs: 023A, 024A, 025A, 028A contain testgroup.

**Prepared by: Melissa Valles**

**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.

# McC Campbell Analytical, Inc.



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 0907195

ClientCode: TWRK

WriteOn   
  EDF   
  Excel   
  Fax   
 Email   
 HardCopy   
 ThirdParty   
 J-flag

**Report to:**

Matt Hall  
Treadwell & Rollo  
501 14Th Street, 3rd Floor  
Oakland, CA 94612  
(510) 874-4500 FAX (510) 874-4507

Email: mbhall@treadwellrollo.com  
cc: tacampitelli@treadwellrollo.com  
PO:  
ProjectNo: #4823.02; 5812 Hollis-Alders Property

**Bill to:**

Accounts Payable  
Treadwell & Rollo  
501 14Th Street, 3rd Floor  
Oakland, CA 94612  
SEND HARDCOPY

Requested TAT: 3 days

Date Received: 07/08/2009

Date Printed: 07/08/2009

| 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 |   |
| 0907195-029 | KB-4A 8.5-9.0  | Soil   | 7/8/2009 10:15  | <input type="checkbox"/> |                                    |   |   |   |   |   |   |   |   |    |    |    | A |
| 0907195-030 | KB-4A 9.0-9.25 | Soil   | 7/8/2009 10:20  | <input type="checkbox"/> |                                    |   |   |   |   |   |   |   |   |    |    |    | A |
| 0907195-031 | KB-4B 6.5-7.0  | Soil   | 7/8/2009 12:45  | <input type="checkbox"/> |                                    |   |   |   |   |   |   |   |   |    |    |    | A |
| 0907195-032 | KB-4B 8.5-9.0  | Soil   | 7/8/2009 12:55  | <input type="checkbox"/> |                                    |   |   |   |   |   |   |   |   |    |    |    | A |
| 0907195-033 | KB-4B 10.5-11  | Soil   | 7/8/2009 13:05  | <input type="checkbox"/> |                                    |   |   |   |   |   |   |   |   |    |    |    | A |
| 0907195-034 | KB-4C 10.5-11  | Soil   | 7/8/2009 12:00  | <input type="checkbox"/> |                                    |   |   |   |   |   |   |   |   |    |    |    | A |
| 0907195-035 | KB-4D 7.5-8.0  | Soil   | 7/8/2009 11:15  | <input type="checkbox"/> |                                    |   |   |   |   |   |   |   |   |    |    |    | A |
| 0907195-036 | KB-4D 8.5-9.0  | Soil   | 7/8/2009 11:24  | <input type="checkbox"/> |                                    |   |   |   |   |   |   |   |   |    |    |    | A |
| 0907195-037 | KB-4D 9.5-10.0 | Soil   | 7/8/2009 11:30  | <input type="checkbox"/> |                                    |   |   |   |   |   |   |   |   |    |    |    | A |
| 0907195-038 | KB-4E 10-10.5  | Soil   | 7/8/2009 12:30  | <input type="checkbox"/> |                                    |   |   |   |   |   |   |   |   |    |    |    | A |
| 0907195-039 | KB-4 Drum      | Soil   | 7/8/2009 13:10  | <input type="checkbox"/> |                                    |   |   |   |   |   |   |   |   |    |    |    | A |

**Test Legend:**

|    |            |    |                  |   |                  |   |            |    |                |
|----|------------|----|------------------|---|------------------|---|------------|----|----------------|
| 1  | G-MBTEX_W  | 2  | MBTEXOXY-8260B_S | 3 | MBTEXOXY-8260B_W | 4 | METALSMS_S | 5  | PBMS_S         |
| 6  | PBMS_SOLID | 7  | STLC_PB_S        | 8 | STLC_PBCR_Soil   | 9 | TCLP_PB_S  | 10 | TCLP_PBCR_Soil |
| 11 | TDS_W      | 12 | TPH(D)WSG_S      |   |                  |   |            |    |                |

The following SamplIDs: 023A, 024A, 025A, 028A contain testgroup.

Prepared by: Melissa Valles

**Comments:**

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**McC Campbell Analytical, Inc.**

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0907195

ClientCode: TWRK

WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

Report to:

Matt Hall  
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Requested TAT: 3 days

Date Received: 07/08/2009

Date Printed: 07/08/2009

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|-------------|----------------|--------|-----------------|--------------------------|------------------------------------|----|----|----|----|----|----|----|----|----|----|----|--|
|             |                |        |                 |                          | 13                                 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |  |
| 0907195-001 | T1 0-0.5       | Soil   | 7/8/2009 9:10   | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-002 | T1 2.0-2.5     | Soil   | 7/8/2009 9:12   | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-003 | T2 0-0.5       | Soil   | 7/8/2009 9:01   | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-004 | T2 2.0-2.5     | Soil   | 7/8/2009 9:08   | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-005 | T3 0-0.5       | Soil   | 7/8/2009 8:52   | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-006 | T3 2.0-2.5     | Soil   | 7/8/2009 9:00   | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-007 | T4 0-0.5       | Soil   | 7/8/2009 8:35   | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-008 | T4 2.0-2.5     | Soil   | 7/8/2009 8:50   | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-009 | T5 0-0.5       | Soil   | 7/8/2009 8:25   | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-010 | T5 2.0-2.5     | Soil   | 7/8/2009 8:30   | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-011 | T6 0-0.5       | Soil   | 7/8/2009 9:15   | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-012 | T7 0-0.5       | Soil   | 7/8/2009 9:16   | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-013 | TR-20E 3.0-3.5 | Soil   | 7/8/2009 14:00  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-014 | TR-20E 2.5-3.0 | Soil   | 7/7/2009 13:45  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |

Test Legend:

|    |               |    |  |    |  |    |  |    |  |
|----|---------------|----|--|----|--|----|--|----|--|
| 13 | TPH(DMO)WSG S | 14 |  | 15 |  | 16 |  | 17 |  |
| 18 |               | 19 |  | 20 |  | 21 |  | 22 |  |
| 23 |               | 24 |  |    |  |    |  |    |  |

The following SampIDs: 023A, 024A, 025A, 028A contain testgroup.

Prepared by: Melissa Valles

Comments:

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|-------------|------------------|--------|-----------------|--------------------------|------------------------------------|----|----|----|----|----|----|----|----|----|----|----|--|
|             |                  |        |                 |                          | 13                                 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |  |
| 0907195-015 | TR-21A 2.5-3.0   | Soil   | 7/7/2009 14:35  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-016 | TR-21A 3.0-3.5   | Soil   | 7/7/2009 14:40  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-017 | TR-21B 2.5-3.0   | Soil   | 7/7/2009 14:55  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-018 | TR-21B 3.0-3.5   | Soil   | 7/7/2009 15:10  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-019 | TR-21C 3.0-3.5   | Soil   | 7/7/2009 15:50  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-020 | TR-21C 2.5-3.0   | Soil   | 7/7/2009 15:55  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-021 | TR-21D 2.5-3.0   | Soil   | 7/7/2009 15:30  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-022 | TR-21D 3.0-3.5   | Soil   | 7/7/2009 15:45  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-023 | UST-1-Deep-20    | Soil   | 7/7/2009 16:30  | <input type="checkbox"/> | A                                  |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-024 | UST-1-Deep 24-25 | Soil   | 7/7/2009 16:40  | <input type="checkbox"/> | A                                  |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-025 | MW-01            | Water  | 7/7/2009 19:30  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-026 | TR-21E 2.5-3.0   | Soil   | 7/7/2009 16:00  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-027 | TR-21E 3.0-3.5   | Soil   | 7/7/2009 16:05  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |
| 0907195-028 | UST-03           | Water  | 7/7/2009 10:05  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |

Test Legend:

|    |               |    |  |    |  |    |  |    |  |
|----|---------------|----|--|----|--|----|--|----|--|
| 13 | TPH(DMO)WSG_S | 14 |  | 15 |  | 16 |  | 17 |  |
| 18 |               | 19 |  | 20 |  | 21 |  | 22 |  |
| 23 |               | 24 |  |    |  |    |  |    |  |


The following SampIDs: 023A, 024A, 025A, 028A contain testgroup.

Prepared by: Melissa Valles

Comments:

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|-------------|----------------|--------|-----------------|--------------------------|------------------------------------|----|----|----|----|----|----|----|----|----|----|----|--|--|--|
|             |                |        |                 |                          | 13                                 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |  |  |  |
| 0907195-029 | KB-4A 8.5-9.0  | Soil   | 7/8/2009 10:15  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 0907195-030 | KB-4A 9.0-9.25 | Soil   | 7/8/2009 10:20  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 0907195-031 | KB-4B 6.5-7.0  | Soil   | 7/8/2009 12:45  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 0907195-032 | KB-4B 8.5-9.0  | Soil   | 7/8/2009 12:55  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 0907195-033 | KB-4B 10.5-11  | Soil   | 7/8/2009 13:05  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 0907195-034 | KB-4C 10.5-11  | Soil   | 7/8/2009 12:00  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 0907195-035 | KB-4D 7.5-8.0  | Soil   | 7/8/2009 11:15  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 0907195-036 | KB-4D 8.5-9.0  | Soil   | 7/8/2009 11:24  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 0907195-037 | KB-4D 9.5-10.0 | Soil   | 7/8/2009 11:30  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 0907195-038 | KB-4E 10-10.5  | Soil   | 7/8/2009 12:30  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 0907195-039 | KB-4 Drum      | Soil   | 7/8/2009 13:10  | <input type="checkbox"/> |                                    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |

Test Legend:

|    |               |    |  |    |  |    |  |    |  |
|----|---------------|----|--|----|--|----|--|----|--|
| 13 | TPH(DMO)WSG_S | 14 |  | 15 |  | 16 |  | 17 |  |
| 18 |               | 19 |  | 20 |  | 21 |  | 22 |  |
| 23 |               | 24 |  |    |  |    |  |    |  |

The following SampIDs: 023A, 024A, 025A, 028A contain testgroup.

Prepared by: Melissa Valles

Comments:

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"When Quality Counts"

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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: **Treadwell & Rollo**

Date and Time Received: **7/8/09 4:55:00 PM**

Project Name: **#4823.02; 5812 Hollis-Alders Property**

Checklist completed and reviewed by: **Melissa Valles**

WorkOrder N°: **0907195** Matrix Soil/Water

Carrier: **Rob Pringle (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: 4.2°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes  No  No VOA vials submitted
- Sample labels checked for correct preservation? Yes  No
- TTLIC 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: All samples in proper containers except for for the Tph (g) for UST-03. Tph (g) should be collected in VOAs preserved w/HCl zero headspace.



# McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
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|--|--|-----------------------------------|
| Treadwell & Rollo<br><br>501 14Th Street, 3rd Floor<br><br>Oakland, CA 94612 | Client Project ID: #4823.02; 5812 Hollis-Alders Property | Date Sampled: 07/07/09            |
|  | Client Contact: Matt Hall                                | Date Received: 07/08/09           |
|  | Client P.O.:   | Date Extracted: 07/08/09-07/09/09 |
|  |  | Date Analyzed 07/09/09            |

### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*

Extraction method SW5030B

Analytical methods SW8015Bm

Work Order: 0907195

| Lab ID | Client ID        | Matrix | TPH(g) | DF | % SS | Comments |
|--------|------------------|--------|--------|----|------|----------|
| 023A   | UST-1-Deep-20    | S      | ND     | 1  | 83   |          |
| 024A   | UST-1-Deep 24-25 | S      | ND     | 1  | 81   |          |
| 025A   | MW-01            | W      | ND     | 1  | 102  |          |
| 028A   | UST-03           | W      | 960    | 10 | 101  | d7,b6,b1 |
|        |                  |        |        |    |      |          |
|        |                  |        |        |    |      |          |
|        |                  |        |        |    |      |          |
|        |                  |        |        |    |      |          |
|        |                  |        |        |    |      |          |
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|        |                  |        |        |    |      |          |
|        |                  |        |        |    |      |          |
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|        |                  |        |        |    |      |          |
|        |                  |        |        |    |      |          |

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

\* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts 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 McC Campbell Analytical is not responsible for their interpretation:

- b1) aqueous sample that contains greater than ~1 vol. % sediment
- b6) lighter than water immiscible sheen/product is present
- d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram



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|  | Client P.O.:   | Date Extracted: 07/08/09 |
|  |  | Date Analyzed: 07/09/09  |

### Oxygenates and BTEX by GC/MS\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0907195

|           |               |                  |  |  |                           |  |
|-----------|---------------|------------------|--|--|---------------------------|--|
| Lab ID    | 0907195-023A  | 0907195-024A     |  |  | Reporting Limit for DF =1 |  |
| Client ID | UST-1-Deep-20 | UST-1-Deep 24-25 |  |  |                           |  |
| Matrix    | S             | S                |  |  |                           |  |
| DF        | 1             | 1                |  |  |                           |  |

| Compound                      | Concentration                 |    |    |  | mg/kg | ug/L  |
|-------------------------------|-------------------------------|----|----|--|-------|-------|
|                               | tert-Amyl methyl ether (TAME) | ND | ND |  |       | 0.005 |
| Benzene                       | ND                            | ND |    |  | 0.005 | NA    |
| t-Butyl alcohol (TBA)         | ND                            | ND |    |  | 0.05  | NA    |
| Diisopropyl ether (DIPE)      | ND                            | ND |    |  | 0.005 | NA    |
| Ethylbenzene                  | ND                            | ND |    |  | 0.005 | NA    |
| Ethyl tert-butyl ether (ETBE) | ND                            | ND |    |  | 0.005 | NA    |
| Methyl-t-butyl ether (MTBE)   | ND                            | ND |    |  | 0.005 | NA    |
| Toluene                       | ND                            | ND |    |  | 0.005 | NA    |
| Xylenes                       | ND                            | ND |    |  | 0.005 | NA    |

### Surrogate Recoveries (%)

|       |     |     |  |  |
|-------|-----|-----|--|--|
| %SS1: | 83  | 83  |  |  |
| %SS2: | 108 | 110 |  |  |

**Comments**

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

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

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



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|  | Client Contact: Matt Hall                                | Date Received: 07/08/09  |
|  | Client P.O.:   | Date Extracted: 07/09/09 |
|  |  | Date Analyzed: 07/09/09  |

### Oxygenates and BTEX by GC/MS\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0907195

|           |              |  |  |  |                              |   |
|-----------|--------------|--|--|--|------------------------------|---|
| Lab ID    | 0907195-025B |  |  |  | Reporting Limit for<br>DF =1 |   |
| Client ID | MW-01        |  |  |  |                              |   |
| Matrix    | W            |  |  |  |                              |   |
| DF        | 1            |  |  |  |                              | S |

| Compound                      | Concentration |  |  |  | ug/kg | ug/L |
|-------------------------------|---------------|--|--|--|-------|------|
| tert-Amyl methyl ether (TAME) | ND            |  |  |  | NA    | 0.5  |
| Benzene                       | ND            |  |  |  | NA    | 0.5  |
| t-Butyl alcohol (TBA)         | ND            |  |  |  | NA    | 2.0  |
| 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                       | 1.2           |  |  |  | NA    | 0.5  |
| Xylenes                       | ND            |  |  |  | NA    | 0.5  |

### Surrogate Recoveries (%)

|       |     |  |  |  |
|-------|-----|--|--|--|
| %SS1: | 85  |  |  |  |
| %SS2: | 107 |  |  |  |

### Comments

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

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

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



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|  | Client P.O.:   | Date Analyzed: 07/09/09-07/10/09 |
|  |  | Date Extracted: 07/08/09         |

### Metals\*

Extraction method: SW3050B

Analytical methods: 6020A

Work Order: 0907195

| Lab ID | Client ID  | Matrix | Extraction Type | Chromium | Lead | DF | % SS | Comments |
|--------|------------|--------|-----------------|----------|------|----|------|----------|
| 001A   | T1 0-0.5   | S      | TOTAL           | 63       | 420  | 10 | 96   |          |
| 002A   | T1 2.0-2.5 | S      | TOTAL           | 55       | 160  | 10 | 97   |          |
| 003A   | T2 0-0.5   | S      | TOTAL           | 47       | 430  | 10 | 98   |          |
| 004A   | T2 2.0-2.5 | S      | TOTAL           | 38       | 13   | 10 | 101  |          |
| 005A   | T3 0-0.5   | S      | TOTAL           | 62       | 850  | 10 | 96   |          |
| 006A   | T3 2.0-2.5 | S      | TOTAL           | 44       | 5.7  | 1  | 97   |          |
| 007A   | T4 0-0.5   | S      | TOTAL           | 45       | 71   | 10 | 99   |          |
| 008A   | T4 2.0-2.5 | S      | TOTAL           | 50       | 31   | 10 | 103  |          |
| 009A   | T5 0-0.5   | S      | TOTAL           | 46       | 130  | 10 | 98   |          |
| 010A   | T5 2.0-2.5 | S      | TOTAL           | 57       | 29   | 10 | 100  |          |
| 011A   | T6 0-0.5   | S      | TOTAL           | 68       | 750  | 10 | 100  |          |
|        |            |        |                 |          |      |    |      |          |
|        |            |        |                 |          |      |    |      |          |
|        |            |        |                 |          |      |    |      |          |

|   |   |       |     |     |       |
|---|---|-------|-----|-----|-------|
| Reporting Limit for DF =1;<br>ND means not detected at or above the reporting limit | W | TOTAL | NA  | NA  | NA    |
|   | S | TOTAL | 0.5 | 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.

DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager



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|  | Client Contact: Matt Hall                                | Date Received: 07/08/09          |
|  | Client P.O.:   | Date Analyzed: 07/09/09-07/10/09 |
|  |  |                                  |

### Lead by ICP-MS\*

Extraction method: SW3050B

Analytical methods: 6020A

Work Order: 0907195

| Lab ID       | Client ID      | Matrix | Extraction Type | Lead | DF | % SS | Comments |
|--------------|----------------|--------|-----------------|------|----|------|----------|
| 0907195-013A | TR-20E 3.0-3.5 | S      | TOTAL           | 12   | 10 | 100  |          |
| 0907195-014A | TR-20E 2.5-3.0 | S      | TOTAL           | 5.5  | 10 | 93   |          |
| 0907195-015A | TR-21A 2.5-3.0 | S      | TOTAL           | 6.3  | 10 | 97   |          |
| 0907195-016A | TR-21A 3.0-3.5 | S      | TOTAL           | 5.1  | 1  | 108  |          |
| 0907195-017A | TR-21B 2.5-3.0 | S      | TOTAL           | 5.0  | 1  | 102  |          |
| 0907195-018A | TR-21B 3.0-3.5 | S      | TOTAL           | 6.7  | 10 | 104  |          |
| 0907195-019A | TR-21C 3.0-3.5 | S      | TOTAL           | 4.5  | 1  | 104  |          |
| 0907195-020A | TR-21C 2.5-3.0 | S      | TOTAL           | 6.0  | 1  | 105  |          |
| 0907195-021A | TR-21D 2.5-3.0 | S      | TOTAL           | 5.7  | 1  | 105  |          |
| 0907195-022A | TR-21D 3.0-3.5 | S      | TOTAL           | 8.1  | 10 | 101  |          |
| 0907195-026A | TR-21E 2.5-3.0 | S      | TOTAL           | 5.3  | 1  | 101  |          |
| 0907195-027A | TR-21E 3.0-3.5 | S      | TOTAL           | 7.2  | 1  | 99   |          |
|              |                |        |                 |      |    |      |          |
|              |                |        |                 |      |    |      |          |

|  |   |       |     |       |
|--|---|-------|-----|-------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>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.

DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager

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|  | Client Contact: Matt Hall                                | Date Received: 07/08/09  |
|  | Client P.O.:   | Date Extracted: 07/08/09 |
|  |  | Date Analyzed: 07/10/09  |

**Lead by ICP-MS\***

Extraction method: SW3050B

Analytical methods: 6020A

Work Order: 0907195

| Lab ID       | Client ID | Matrix | Extraction Type | Lead | DF  | % SS | Comments |
|--------------|-----------|--------|-----------------|------|-----|------|----------|
| 0907195-012A | T7 0-0.5  | S      | TOTAL           | 3500 | 100 | 117  |          |
|              |           |        |                 |      |     |      |          |
|              |           |        |                 |      |     |      |          |
|              |           |        |                 |      |     |      |          |
|              |           |        |                 |      |     |      |          |
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|              |           |        |                 |      |     |      |          |
|              |           |        |                 |      |     |      |          |
|              |           |        |                 |      |     |      |          |
|              |           |        |                 |      |     |      |          |
|              |           |        |                 |      |     |      |          |
|              |           |        |                 |      |     |      |          |

|  |   |       |     |       |
|--|---|-------|-----|-------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>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.  
TRM = total recoverable metals by "direct analysis".  
DISS = dissolved metals by suitable filtration and acid preservation  
WET = Waste Extraction Test (STLC).  
DI WET = Waste Extraction Test using de-ionized water.



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|  |  | Date Analyzed: 07/13/09           |

### Lead by ICP\*

Extraction method: CA Title 22

Analytical methods: SW6010C

Work Order: 0907195

| Lab ID       | Client ID      | Matrix | Extraction Type | Lead | DF | % SS | Comments |
|--------------|----------------|--------|-----------------|------|----|------|----------|
| 0907195-014A | TR-20E 2.5-3.0 | S      | WET             | 0.25 | 1  | N/A  |          |
| 0907195-015A | TR-21A 2.5-3.0 | S      | WET             | ND   | 1  | N/A  |          |
| 0907195-017A | TR-21B 2.5-3.0 | S      | WET             | ND   | 1  | N/A  |          |
| 0907195-020A | TR-21C 2.5-3.0 | S      | WET             | ND   | 1  | N/A  |          |
| 0907195-021A | TR-21D 2.5-3.0 | S      | WET             | 0.20 | 1  | N/A  |          |
| 0907195-026A | TR-21E 2.5-3.0 | S      | WET             | 0.31 | 1  | N/A  |          |
|              |                |        |                 |      |    |      |          |
|              |                |        |                 |      |    |      |          |
|              |                |        |                 |      |    |      |          |
|              |                |        |                 |      |    |      |          |
|              |                |        |                 |      |    |      |          |
|              |                |        |                 |      |    |      |          |
|              |                |        |                 |      |    |      |          |
|              |                |        |                 |      |    |      |          |
|              |                |        |                 |      |    |      |          |

|  |   |       |     |      |
|--|---|-------|-----|------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | W | TOTAL | NA  | µg/L |
|  | S | WET   | 0.2 | mg/L |

\*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.





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|  |  | Date Analyzed: 07/13/09           |

### Lead & Chromium\*

Extraction method: CA Title 22

Analytical methods: SW6010C

Work Order: 0907195

| Lab ID | Client ID | Matrix | Extraction Type | Chromium | Lead | DF | % SS | Comments |
|--------|-----------|--------|-----------------|----------|------|----|------|----------|
| 001A   | T1 0-0.5  | S      | WET             | 0.41     | 19   | 1  | N/A  |          |
| 003A   | T2 0-0.5  | S      | WET             | 0.17     | 28   | 1  | N/A  |          |
| 005A   | T3 0-0.5  | S      | WET             | 0.41     | 44   | 1  | N/A  |          |
| 007A   | T4 0-0.5  | S      | WET             | 0.15     | 4.1  | 1  | N/A  |          |
| 009A   | T5 0-0.5  | S      | WET             | 0.18     | 8.0  | 1  | N/A  |          |
|        |           |        |                 |          |      |    |      |          |
|        |           |        |                 |          |      |    |      |          |
|        |           |        |                 |          |      |    |      |          |
|        |           |        |                 |          |      |    |      |          |
|        |           |        |                 |          |      |    |      |          |
|        |           |        |                 |          |      |    |      |          |
|        |           |        |                 |          |      |    |      |          |
|        |           |        |                 |          |      |    |      |          |
|        |           |        |                 |          |      |    |      |          |
|        |           |        |                 |          |      |    |      |          |
|        |           |        |                 |          |      |    |      |          |
|        |           |        |                 |          |      |    |      |          |
|        |           |        |                 |          |      |    |      |          |

|   |   |       |      |     |      |
|---|---|-------|------|-----|------|
| Reporting Limit for DF =1;<br>ND means not detected at or above the reporting limit | W | TOTAL | NA   | NA  | NA   |
|   | S | WET   | 0.05 | 0.2 | mg/L |

\*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.



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|  | Client Contact: Matt Hall                                | Date Received: 07/08/09           |
|  | Client P.O.:   | Date Extracted: 07/08/09-07/09/09 |
|  |  | Date Analyzed: 07/09/09           |

### Lead by ICP\*

Extraction method: SW1311

Analytical methods: SW6010C

Work Order: 0907195

| Lab ID       | Client ID      | Matrix | Extraction Type | Lead | DF | % SS | Comments |
|--------------|----------------|--------|-----------------|------|----|------|----------|
| 0907195-014A | TR-20E 2.5-3.0 | S      | TCLP            | ND   | 1  | N/A  |          |
| 0907195-015A | TR-21A 2.5-3.0 | S      | TCLP            | ND   | 1  | N/A  |          |
| 0907195-017A | TR-21B 2.5-3.0 | S      | TCLP            | ND   | 1  | N/A  |          |
| 0907195-020A | TR-21C 2.5-3.0 | S      | TCLP            | ND   | 1  | N/A  |          |
| 0907195-021A | TR-21D 2.5-3.0 | S      | TCLP            | ND   | 1  | N/A  |          |
| 0907195-026A | TR-21E 2.5-3.0 | S      | TCLP            | ND   | 1  | N/A  |          |
|              |                |        |                 |      |    |      |          |
|              |                |        |                 |      |    |      |          |
|              |                |        |                 |      |    |      |          |
|              |                |        |                 |      |    |      |          |
|              |                |        |                 |      |    |      |          |
|              |                |        |                 |      |    |      |          |
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|              |                |        |                 |      |    |      |          |
|              |                |        |                 |      |    |      |          |
|              |                |        |                 |      |    |      |          |

|  |   |       |     |      |
|--|---|-------|-----|------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | W | TOTAL | NA  | µg/L |
|  | S | TCLP  | 0.2 | mg/L |

\*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.



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|  |  |                                   |
|--|--|-----------------------------------|
| Treadwell & Rollo<br><br>501 14Th Street, 3rd Floor<br><br>Oakland, CA 94612 | Client Project ID: #4823.02; 5812 Hollis-Alders Property | Date Sampled: 07/08/09            |
|  | Client Contact: Matt Hall                                | Date Received: 07/08/09           |
|  | Client P.O.:   | Date Extracted: 07/08/09-07/09/09 |
|  |  | Date Analyzed: 07/09/09           |

### Chromium & Lead\*

Extraction method: SW1311

Analytical methods: SW6010C

Work Order: 0907195

| Lab ID | Client ID | Matrix | Extraction Type | Chromium | Lead | DF | % SS | Comments |
|--------|-----------|--------|-----------------|----------|------|----|------|----------|
| 001A   | T1 0-0.5  | S      | TCLP            | ND       | ND   | 1  | N/A  |          |
| 003A   | T2 0-0.5  | S      | TCLP            | ND       | ND   | 1  | N/A  |          |
| 005A   | T3 0-0.5  | S      | TCLP            | ND       | 1.6  | 1  | N/A  |          |
| 007A   | T4 0-0.5  | S      | TCLP            | ND       | ND   | 1  | N/A  |          |
| 009A   | T5 0-0.5  | S      | TCLP            | ND       | ND   | 1  | N/A  |          |
|        |           |        |                 |          |      |    |      |          |
|        |           |        |                 |          |      |    |      |          |
|        |           |        |                 |          |      |    |      |          |
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|        |           |        |                 |          |      |    |      |          |

|   |   |       |      |     |      |
|---|---|-------|------|-----|------|
| Reporting Limit for DF =1;<br>ND means not detected at or above the reporting limit | W | TOTAL | NA   | NA  | NA   |
|   | S | TCLP  | 0.05 | 0.2 | mg/L |

\*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.



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|  |  |                          |
|--|--|--------------------------|
| Treadwell & Rollo<br><br>501 14Th Street, 3rd Floor<br><br>Oakland, CA 94612 | Client Project ID: #4823.02; 5812 Hollis-Alders Property | Date Sampled: 07/07/09   |
|  | Client Contact: Matt Hall                                | Date Received: 07/08/09  |
|  | Client P.O.:   | Date Extracted: 07/08/09 |
|  |  | Date Analyzed 07/09/09   |

### Total Dissolved Solids\*

Analytical Method: SM2540C

Work Order: 0907195

| Lab ID       | Client ID | Matrix | Total Dissolved Solids | DF | Comments |
|--------------|-----------|--------|------------------------|----|----------|
| 0907195-025C | MW-01     | W      | 1310                   | 1  |          |
| 0907195-028B | UST-03    | W      | 1180                   | 2  | b1       |
|              |           |        |                        |    |          |
|              |           |        |                        |    |          |
|              |           |        |                        |    |          |
|              |           |        |                        |    |          |
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|              |           |        |                        |    |          |
|              |           |        |                        |    |          |

|   |   |         |
|---|---|---------|
| Reporting Limit for DF = 1; ND means not detected at or above the reporting limit | W | 10 mg/L |
|   | S | NA      |

\* water samples reported in mg/L.

b1) aqueous sample that contains greater than ~1 vol. % sediment



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|  |  |                                 |
|--|--|---------------------------------|
| Treadwell & Rollo<br><br>501 14Th Street, 3rd Floor<br><br>Oakland, CA 94612 | Client Project ID: #4823.02; 5812 Hollis-Alders Property | Date Sampled: 07/08/09          |
|  | Client Contact: Matt Hall                                | Date Received: 07/08/09         |
|  | Client P.O.:   | Date Analyzed 07/09/09-07/10/09 |
|  |  | Date Extracted: 07/08/09        |

### Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up\*

Extraction method: SW3550C/3630C

Analytical methods: SW8015B

Work Order: 0907195

| Lab ID       | Client ID      | Matrix | TPH-Diesel (C10-C23) | DF  | % SS | Comments |
|--------------|----------------|--------|----------------------|-----|------|----------|
| 0907195-029A | KB-4A 8.5-9.0  | S      | 400                  | 1   | 116  | e1       |
| 0907195-030A | KB-4A 9.0-9.25 | S      | 4900                 | 100 | 103  | e1       |
| 0907195-031A | KB-4B 6.5-7.0  | S      | 570                  | 1   | 114  | e1       |
| 0907195-032A | KB-4B 8.5-9.0  | S      | 1600                 | 50  | 110  | e1       |
| 0907195-033A | KB-4B 10.5-11  | S      | 81                   | 1   | 113  | e1       |
| 0907195-034A | KB-4C 10.5-11  | S      | 3.9                  | 1   | 115  | e1       |
| 0907195-035A | KB-4D 7.5-8.0  | S      | 270                  | 1   | 114  | e1       |
| 0907195-036A | KB-4D 8.5-9.0  | S      | 410                  | 1   | 106  | e1       |
| 0907195-037A | KB-4D 9.5-10.0 | S      | 45                   | 1   | 104  | e1       |
| 0907195-038A | KB-4E 10-10.5  | S      | 13                   | 1   | 116  | e1       |
| 0907195-039A | KB-4 Drum      | S      | 250                  | 1   | 107  | e1       |
|              |                |        |                      |     |      |          |
|              |                |        |                      |     |      |          |
|              |                |        |                      |     |      |          |
|              |                |        |                      |     |      |          |

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

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

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

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

e1) unmodified or weakly modified diesel is significant



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|  |  |                                  |
|--|--|----------------------------------|
| Treadwell & Rollo<br>501 14Th Street, 3rd Floor<br>Oakland, CA 94612 | Client Project ID: #4823.02; 5812 Hollis-Alders Property | Date Sampled: 07/07/09           |
|  | Client Contact: Matt Hall                                | Date Received: 07/08/09          |
|  | Client P.O.:   | Date Extracted: 07/08/09         |
|  |  | Date Analyzed: 07/10/09-07/13/09 |

### Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up\*

Extraction method: SW3510C/3630C/SW3550C/36

Analytical methods: SW8015B

Work Order: 0907195

| Lab ID       | Client ID        | Matrix | TPH-Diesel<br>(C10-C23) | TPH-Motor Oil<br>(C18-C36) | DF | % SS | Comments |
|--------------|------------------|--------|-------------------------|----------------------------|----|------|----------|
| 0907195-023A | UST-1-Deep-20    | S      | ND                      | ND                         | 1  | 112  |          |
| 0907195-024A | UST-1-Deep 24-25 | S      | ND                      | ND                         | 1  | 110  |          |
| 0907195-025A | MW-01            | W      | ND                      | ND                         | 1  | 109  |          |
| 0907195-028A | UST-03           | W      | 29,000                  | 17,000                     | 10 | 104  | e1,b1    |
|              |                  |        |                         |                            |    |      |          |
|              |                  |        |                         |                            |    |      |          |
|              |                  |        |                         |                            |    |      |          |
|              |                  |        |                         |                            |    |      |          |
|              |                  |        |                         |                            |    |      |          |
|              |                  |        |                         |                            |    |      |          |
|              |                  |        |                         |                            |    |      |          |
|              |                  |        |                         |                            |    |      |          |
|              |                  |        |                         |                            |    |      |          |
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|              |                  |        |                         |                            |    |      |          |
|              |                  |        |                         |                            |    |      |          |


|  |   |     |     |       |
|--|---|-----|-----|-------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | W | 50  | 250 | µg/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 McC Campbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment  
e1) unmodified or weakly modified diesel is significant

 Angela Rydelius, Lab Manager



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**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 44360

WorkOrder 0907195

| EPA Method SW8015Bm    |        | Extraction SW5030B |        |        |        |        |        |          | Spiked Sample ID: 0907165-001A |     |          |     |
|------------------------|--------|--------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte                | Sample | Spiked             | MS     | MSD    | MS-MSD | LCS    | LCSD   | LCS-LCSD | Acceptance Criteria (%)        |     |          |     |
|                        | mg/Kg  | mg/Kg              | % Rec. | % Rec. | % RPD  | % Rec. | % Rec. | % RPD    | MS / MSD                       | RPD | LCS/LCSD | RPD |
| TPH(btex) <sup>f</sup> | ND     | 0.60               | 116    | 114    | 1.55   | 115    | 114    | 0.367    | 70 - 130                       | 20  | 70 - 130 | 20  |
| MTBE                   | ND     | 0.10               | 93.4   | 96.2   | 2.98   | 94.9   | 94.2   | 0.746    | 70 - 130                       | 20  | 70 - 130 | 20  |
| Benzene                | ND     | 0.10               | 94.2   | 96.2   | 2.13   | 94.1   | 94.5   | 0.377    | 70 - 130                       | 20  | 70 - 130 | 20  |
| Toluene                | ND     | 0.10               | 94.4   | 95.8   | 1.52   | 94.4   | 95.5   | 1.14     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Ethylbenzene           | ND     | 0.10               | 93.8   | 93.7   | 0.156  | 92.8   | 93.7   | 0.943    | 70 - 130                       | 20  | 70 - 130 | 20  |
| Xylenes                | ND     | 0.30               | 94     | 94.7   | 0.732  | 93.6   | 94.7   | 1.16     | 70 - 130                       | 20  | 70 - 130 | 20  |
| %SS:                   | 99     | 0.10               | 82     | 83     | 1.66   | 82     | 83     | 1.04     | 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 44360 SUMMARY**

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    | Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    |
|--------------|------------------|----------------|------------------|--------------|------------------|----------------|------------------|
| 0907195-023A | 07/07/09 4:30 PM | 07/08/09       | 07/09/09 3:14 PM | 0907195-024A | 07/07/09 4:40 PM | 07/08/09       | 07/09/09 3:45 PM |

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

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

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

£ 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 SW8021B/8015Bm**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 44376

WorkOrder 0907195

| Analyte                | EPA Method SW8015Bm |        | Extraction SW5030B |        |        |        |        |          | Spiked Sample ID: 0907195-025A |     |          |     |
|------------------------|---------------------|--------|--------------------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
|                        | 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) <sup>f</sup> | ND                  | 60     | 110                | 106    | 4.34   | 117    | 108    | 7.40     | 70 - 130                       | 20  | 70 - 130 | 20  |
| MTBE                   | ND                  | 10     | 117                | 106    | 9.72   | 106    | 109    | 3.31     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Benzene                | ND                  | 10     | 96.3               | 94.7   | 1.67   | 97.3   | 99.2   | 2.00     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Toluene                | 0.77                | 10     | 90.7               | 90.8   | 0.0784 | 99.7   | 102    | 2.70     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Ethylbenzene           | ND                  | 10     | 99.9               | 96.5   | 3.34   | 96.8   | 102    | 5.35     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Xylenes                | 1.0                 | 30     | 108                | 109    | 1.58   | 112    | 116    | 3.11     | 70 - 130                       | 20  | 70 - 130 | 20  |
| %SS:                   | 102                 | 10     | 102                | 102    | 0      | 102    | 104    | 1.91     | 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 44376 SUMMARY

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    | Lab ID       | Date Sampled      | Date Extracted | Date Analyzed    |
|--------------|------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 0907195-025A | 07/07/09 7:30 PM | 07/09/09       | 07/09/09 4:34 AM | 0907195-028A | 07/07/09 10:05 AM | 07/09/09       | 07/09/09 5:03 AM |

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

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

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

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

# 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: Soil

QC Matrix: Soil

BatchID: 44352

WorkOrder 0907195

| Analyte                       | EPA Method SW8260B |        | Extraction SW5030B |        |        |        |        |          | Spiked Sample ID: 0907192-001A |     |          |     |
|-------------------------------|--------------------|--------|--------------------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
|                               | 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  | 88.9               | 86.8   | 2.34   | 87.6   | 87.9   | 0.266    | 60 - 130                       | 30  | 60 - 130 | 30  |
| Benzene                       | ND                 | 0.050  | 109                | 107    | 2.11   | 108    | 108    | 0        | 60 - 130                       | 30  | 60 - 130 | 30  |
| t-Butyl alcohol (TBA)         | ND                 | 0.25   | 88.9               | 87.6   | 1.45   | 85.8   | 87.4   | 1.86     | 60 - 130                       | 30  | 60 - 130 | 30  |
| 1,2-Dibromoethane (EDB)       | ND                 | 0.050  | 98.1               | 94.3   | 3.86   | 97.6   | 98.9   | 1.30     | 60 - 130                       | 30  | 60 - 130 | 30  |
| 1,2-Dichloroethane (1,2-DCA)  | ND                 | 0.050  | 98.2               | 92.9   | 5.55   | 95.4   | 95     | 0.359    | 60 - 130                       | 30  | 60 - 130 | 30  |
| Diisopropyl ether (DIPE)      | ND                 | 0.050  | 103                | 101    | 2.52   | 100    | 99     | 1.46     | 60 - 130                       | 30  | 60 - 130 | 30  |
| Ethyl tert-butyl ether (ETBE) | ND                 | 0.050  | 95.7               | 93.5   | 2.33   | 93.8   | 93.8   | 0        | 60 - 130                       | 30  | 60 - 130 | 30  |
| Methyl-t-butyl ether (MTBE)   | ND                 | 0.050  | 94.4               | 93.4   | 1.08   | 93.1   | 93.4   | 0.360    | 60 - 130                       | 30  | 60 - 130 | 30  |
| Toluene                       | ND                 | 0.050  | 110                | 107    | 2.48   | 109    | 111    | 1.07     | 60 - 130                       | 30  | 60 - 130 | 30  |
| %SS1:                         | 88                 | 0.12   | 94                 | 94     | 0      | 94     | 94     | 0        | 70 - 130                       | 30  | 70 - 130 | 30  |
| %SS2:                         | 115                | 0.12   | 107                | 106    | 0.527  | 108    | 108    | 0        | 70 - 130                       | 30  | 70 - 130 | 30  |

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

### BATCH 44352 SUMMARY

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed     | Lab ID       | Date Sampled     | Date Extracted | Date Analyzed     |
|--------------|------------------|----------------|-------------------|--------------|------------------|----------------|-------------------|
| 0907195-023A | 07/07/09 4:30 PM | 07/08/09       | 07/09/09 10:18 PM | 0907195-024A | 07/07/09 4:40 PM | 07/08/09       | 07/09/09 11:02 PM |

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

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

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

N/A = not 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 SW8260B

W.O Sample Matrix: Water

QC Matrix: Water

BatchID: 44356

WorkOrder 0907195

| Analyte                       | EPA Method SW8260B Extraction SW5030B |        |        |        |        |        |        |          | Spiked Sample ID: 0907143-020B |     |          |     |
|-------------------------------|---------------------------------------|--------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
|                               | Sample                                | Spiked | MS     | MSD    | MS-MSD | LCS    | LCSD   | LCS-LCSD | Acceptance Criteria (%)        |     |          |     |
|                               | µg/L                                  | µg/L   | % Rec. | % Rec. | % RPD  | % Rec. | % Rec. | % RPD    | MS / MSD                       | RPD | LCS/LCSD | RPD |
| tert-Amyl methyl ether (TAME) | ND                                    | 10     | 103    | 103    | 0      | 115    | 117    | 1.72     | 70 - 130                       | 30  | 70 - 130 | 30  |
| Benzene                       | ND                                    | 10     | 107    | 110    | 1.97   | 121    | 124    | 1.84     | 70 - 130                       | 30  | 70 - 130 | 30  |
| t-Butyl alcohol (TBA)         | ND                                    | 50     | 104    | 100    | 3.80   | 104    | 111    | 5.69     | 70 - 130                       | 30  | 70 - 130 | 30  |
| 1,2-Dibromoethane (EDB)       | ND                                    | 10     | 109    | 108    | 0.990  | 120    | 122    | 1.78     | 70 - 130                       | 30  | 70 - 130 | 30  |
| 1,2-Dichloroethane (1,2-DCA)  | ND                                    | 10     | 103    | 104    | 1.54   | 115    | 116    | 1.14     | 70 - 130                       | 30  | 70 - 130 | 30  |
| Diisopropyl ether (DIPE)      | ND                                    | 10     | 107    | 109    | 1.92   | 121    | 122    | 1.14     | 70 - 130                       | 30  | 70 - 130 | 30  |
| Ethyl tert-butyl ether (ETBE) | ND                                    | 10     | 105    | 106    | 1.29   | 117    | 118    | 0.530    | 70 - 130                       | 30  | 70 - 130 | 30  |
| Methyl-t-butyl ether (MTBE)   | ND                                    | 10     | 106    | 107    | 0.631  | 117    | 119    | 2.14     | 70 - 130                       | 30  | 70 - 130 | 30  |
| Toluene                       | ND                                    | 10     | 101    | 102    | 0.757  | 115    | 117    | 2.01     | 70 - 130                       | 30  | 70 - 130 | 30  |
| %SS1:                         | 86                                    | 25     | 98     | 98     | 0      | 97     | 98     | 0.596    | 70 - 130                       | 30  | 70 - 130 | 30  |
| %SS2:                         | 106                                   | 25     | 101    | 101    | 0      | 102    | 102    | 0        | 70 - 130                       | 30  | 70 - 130 | 30  |

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

### BATCH 44356 SUMMARY

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed     | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|------------------|----------------|-------------------|--------|--------------|----------------|---------------|
| 0907195-025B | 07/07/09 7:30 PM | 07/09/09       | 07/09/09 11:45 PM |        |              |                |               |

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

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

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

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

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

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/Solid

QC Matrix: Soil

WorkOrder: 0907195

| EPA Method 6020A |        | Extraction SW3050B |        |        |        | BatchID: 44351 |        |        | Spiked Sample ID: 0907162-002A |                         |     |          |     |
|------------------|--------|--------------------|--------|--------|--------|----------------|--------|--------|--------------------------------|-------------------------|-----|----------|-----|
| 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 |
| Chromium         | 75     | 50                 | NR     | NR     | NR     | 10             | 97.4   | 96.8   | 0.607                          | 75 - 125                | 20  | 75 - 125 | 20  |
| Lead             | 32     | 50                 | 96.8   | 96.9   | 0.0501 | 10             | 93.2   | 93.4   | 0.178                          | 75 - 125                | 20  | 75 - 125 | 20  |
| %SS              | 98     | 250                | 99     | 97     | 1.72   | 250            | 100    | 98     | 1.61                           | 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 44351 SUMMARY

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    | Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    |
|--------------|------------------|----------------|------------------|--------------|------------------|----------------|------------------|
| 0907195-001A | 07/08/09 9:10 AM | 07/08/09       | 07/09/09 5:19 PM | 0907195-002A | 07/08/09 9:12 AM | 07/08/09       | 07/09/09 5:25 PM |
| 0907195-003A | 07/08/09 9:01 AM | 07/08/09       | 07/09/09 5:32 PM | 0907195-004A | 07/08/09 9:08 AM | 07/08/09       | 07/09/09 5:38 PM |
| 0907195-005A | 07/08/09 8:52 AM | 07/08/09       | 07/09/09 5:44 PM | 0907195-006A | 07/08/09 9:00 AM | 07/08/09       | 07/09/09 5:50 PM |
| 0907195-006A | 07/08/09 9:00 AM | 07/08/09       | 07/10/09 6:06 PM | 0907195-007A | 07/08/09 8:35 AM | 07/08/09       | 07/09/09 5:56 PM |
| 0907195-008A | 07/08/09 8:50 AM | 07/08/09       | 07/09/09 6:28 PM | 0907195-009A | 07/08/09 8:25 AM | 07/08/09       | 07/09/09 6:34 PM |
| 0907195-010A | 07/08/09 8:30 AM | 07/08/09       | 07/09/09 6:40 PM | 0907195-011A | 07/08/09 9:15 AM | 07/08/09       | 07/09/09 6:46 PM |
| 0907195-012A | 07/08/09 9:16 AM | 07/08/09       | 07/10/09 2:45 PM |              |                  |                |                  |

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

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

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

N/A = not applicable to this method.

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 6020A

W.O Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0907195

| EPA Method 6020A |        | Extraction SW3050B |        |        |        | BatchID: 44351 |        |        | Spiked Sample ID: 0907162-002A |                         |     |          |     |
|------------------|--------|--------------------|--------|--------|--------|----------------|--------|--------|--------------------------------|-------------------------|-----|----------|-----|
| 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             | 32     | 50                 | 96.8   | 96.9   | 0.0501 | 10             | 93.2   | 93.4   | 0.178                          | 75 - 125                | 20  | 75 - 125 | 20  |
| %SS:             | 98     | 250                | 99     | 97     | 1.72   | 250            | 100    | 98     | 1.61                           | 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 44351 SUMMARY

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|------------------|----------------|------------------|--------|--------------|----------------|---------------|
| 0907195-013A | 07/08/09 2:00 PM | 07/08/09       | 07/09/09 6:57 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 6020A

W.O Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0907195

| EPA Method 6020A |        | Extraction SW3050B |        |       |        | BatchID: 44379 |        | Spiked Sample ID: 0907195-027A |          |                         |     |          |     |
|------------------|--------|--------------------|--------|-------|--------|----------------|--------|--------------------------------|----------|-------------------------|-----|----------|-----|
| 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             | 7.2    | 50                 | 96.1   | 97.3  | 1.11   | 10             | 91.4   | 91.6                           | 0.184    | 75 - 125                | 20  | 75 - 125 | 20  |
| %SS:             | 99     | 250                | 96     | 97    | 1.74   | 250            | 99     | 100                            | 0.805    | 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 44379 SUMMARY

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    | Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    |
|--------------|------------------|----------------|------------------|--------------|------------------|----------------|------------------|
| 0907195-014A | 07/07/09 1:45 PM | 07/08/09       | 07/09/09 7:02 PM | 0907195-015A | 07/07/09 2:35 PM | 07/08/09       | 07/09/09 7:07 PM |
| 0907195-016A | 07/07/09 2:40 PM | 07/08/09       | 07/10/09 6:14 PM | 0907195-017A | 07/07/09 2:55 PM | 07/08/09       | 07/10/09 3:23 PM |
| 0907195-018A | 07/07/09 3:10 PM | 07/08/09       | 07/09/09 7:49 PM | 0907195-019A | 07/07/09 3:50 PM | 07/08/09       | 07/10/09 3:29 PM |
| 0907195-020A | 07/07/09 3:55 PM | 07/08/09       | 07/10/09 3:35 PM | 0907195-021A | 07/07/09 3:30 PM | 07/08/09       | 07/10/09 3:41 PM |
| 0907195-022A | 07/07/09 3:45 PM | 07/08/09       | 07/09/09 8:09 PM | 0907195-026A | 07/07/09 4:00 PM | 07/08/09       | 07/10/09 3:48 PM |
| 0907195-027A | 07/07/09 4:05 PM | 07/08/09       | 07/09/09 3:49 PM |              |                  |                |                  |

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

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

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

N/A = not applicable to this method.

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



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### QC SUMMARY REPORT FOR SW6010C

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 44332

WorkOrder: 0907195

| EPA Method SW6010C |        | Extraction CA Title 22 |        |        |        |        |        |          | Spiked Sample ID: N/A   |     |          |     |
|--------------------|--------|------------------------|--------|--------|--------|--------|--------|----------|-------------------------|-----|----------|-----|
| Analyte            | Sample | Spiked                 | MS     | MSD    | MS-MSD | LCS    | LCSD   | LCS-LCSD | Acceptance Criteria (%) |     |          |     |
|                    | mg/L   | mg/L                   | % Rec. | % Rec. | % RPD  | % Rec. | % Rec. | % RPD    | MS / MSD                | RPD | LCS/LCSD | RPD |
| Chromium           | N/A    | 1                      | N/A    | N/A    | N/A    | 89.3   | 92     | 2.96     | N/A                     | N/A | 80 - 120 | 20  |
| Lead               | N/A    | 1                      | N/A    | N/A    | N/A    | 88.3   | 90.2   | 2.12     | N/A                     | N/A | 80 - 120 | 20  |

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

#### BATCH 44332 SUMMARY

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed     | Lab ID       | Date Sampled     | Date Extracted | Date Analyzed     |
|--------------|------------------|----------------|-------------------|--------------|------------------|----------------|-------------------|
| 0907195-001A | 07/08/09 9:10 AM | 07/08/09       | 07/13/09 10:29 AM | 0907195-003A | 07/08/09 9:01 AM | 07/08/09       | 07/13/09 10:32 AM |
| 0907195-005A | 07/08/09 8:52 AM | 07/08/09       | 07/13/09 10:35 AM | 0907195-007A | 07/08/09 8:35 AM | 07/08/09       | 07/13/09 10:38 AM |
| 0907195-009A | 07/08/09 8:25 AM | 07/08/09       | 07/13/09 10:40 AM | 0907195-014A | 07/07/09 1:45 PM | 07/08/09       | 07/13/09 10:43 AM |
| 0907195-015A | 07/07/09 2:35 PM | 07/08/09       | 07/13/09 10:46 AM | 0907195-017A | 07/07/09 2:55 PM | 07/08/09       | 07/13/09 10:55 AM |
| 0907195-020A | 07/07/09 3:55 PM | 07/08/09       | 07/13/09 10:57 AM | 0907195-021A | 07/07/09 3:30 PM | 07/08/09       | 07/13/09 11:00 AM |
| 0907195-026A | 07/07/09 4:00 PM | 07/08/09       | 07/13/09 11:03 AM |              |                  |                |                   |

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

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

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

N/A = not applicable to this method

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

DHS ELAP Certification 1644

 QA/QC Officer



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**QC SUMMARY REPORT FOR SW6010C**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 44380

WorkOrder 0907195

| EPA Method SW6010C |        | Extraction SW1311 |        |        |        |        |        |          | Spiked Sample ID: N/A   |     |          |     |
|--------------------|--------|-------------------|--------|--------|--------|--------|--------|----------|-------------------------|-----|----------|-----|
| Analyte            | Sample | Spiked            | MS     | MSD    | MS-MSD | LCS    | LCSD   | LCS-LCSD | Acceptance Criteria (%) |     |          |     |
|                    | mg/L   | mg/L              | % Rec. | % Rec. | % RPD  | % Rec. | % Rec. | % RPD    | MS / MSD                | RPD | LCS/LCSD | RPD |
| Chromium           | N/A    | 1                 | N/A    | N/A    | N/A    | 101    | 102    | 1.58     | N/A                     | N/A | 80 - 120 | 20  |
| Lead               | N/A    | 1                 | N/A    | N/A    | N/A    | 100    | 99.7   | 0.570    | N/A                     | N/A | 80 - 120 | 20  |

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

**BATCH 44380 SUMMARY**

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    | Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    |
|--------------|------------------|----------------|------------------|--------------|------------------|----------------|------------------|
| 0907195-001A | 07/08/09 9:10 AM | 07/08/09       | 07/09/09 6:30 PM | 0907195-003A | 07/08/09 9:01 AM | 07/08/09       | 07/09/09 6:33 PM |
| 0907195-005A | 07/08/09 8:52 AM | 07/08/09       | 07/09/09 6:36 PM | 0907195-007A | 07/08/09 8:35 AM | 07/08/09       | 07/09/09 6:39 PM |
| 0907195-009A | 07/08/09 8:25 AM | 07/08/09       | 07/09/09 6:42 PM | 0907195-014A | 07/07/09 1:45 PM | 07/08/09       | 07/09/09 6:44 PM |
| 0907195-015A | 07/07/09 2:35 PM | 07/08/09       | 07/09/09 6:47 PM | 0907195-017A | 07/07/09 2:55 PM | 07/08/09       | 07/09/09 6:50 PM |
| 0907195-020A | 07/07/09 3:55 PM | 07/08/09       | 07/09/09 6:53 PM | 0907195-021A | 07/07/09 3:30 PM | 07/08/09       | 07/09/09 6:56 PM |
| 0907195-026A | 07/07/09 4:00 PM | 07/08/09       | 07/09/09 7:04 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 WET CHEMISTRY TESTS**

**Test Method: Total Dissolved Solids**

**Matrix: W**

**WorkOrder: 0907195**

| Method Name: SM2540C |        |    | Units mg/L      |    | BatchID: 44355 |                         |
|----------------------|--------|----|-----------------|----|----------------|-------------------------|
| Lab ID               | Sample | DF | Dup / Ser. Dil. | DF | % RPD          | Acceptance Criteria (%) |
| 0907195-025C         | 1310   | 1  | 1290            | 2  | 1.15           | <20                     |
| 0907195-028B         | 1180   | 2  | 1170            | 5  | 1.28           | <20                     |

BATCH 44355 SUMMARY

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    | Lab ID       | Date Sampled      | Date Extracted | Date Analyzed    |
|--------------|------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 0907195-025C | 07/07/09 7:30 PM | 07/08/09       | 07/09/09 1:55 PM | 0907195-028B | 07/07/09 10:05 AM | 07/08/09       | 07/09/09 1:35 PM |

Dup = Duplicate; Ser Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

$RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]$

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.





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**QC SUMMARY REPORT FOR SW8015B**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 44354

WorkOrder: 0907195

| Analyte              | Extraction SW3510C/3630C |                |              | Spiked Sample ID: N/A |                 |               |                |                   |                         |     |          |    |
|----------------------|--------------------------|----------------|--------------|-----------------------|-----------------|---------------|----------------|-------------------|-------------------------|-----|----------|----|
|                      | Sample<br>µg/L           | Spiked<br>µg/L | MS<br>% Rec. | MSD<br>% Rec.         | MS-MSD<br>% RPD | LCS<br>% Rec. | LCSD<br>% Rec. | LCS-LCSD<br>% RPD | Acceptance Criteria (%) |     |          |    |
| TPH-Diesel (C10-C23) | N/A                      | 1000           | N/A          | N/A                   | N/A             | 84.6          | 84.2           | 0.471             | N/A                     | N/A | 70 - 130 | 30 |
| %SS:                 | N/A                      | 2500           | N/A          | N/A                   | N/A             | 111           | 111            | 0                 | N/A                     | N/A | 70 - 130 | 30 |

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

BATCH 44354 SUMMARY

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed     | Lab ID       | Date Sampled      | Date Extracted | Date Analyzed     |
|--------------|------------------|----------------|-------------------|--------------|-------------------|----------------|-------------------|
| 0907195-025A | 07/07/09 7:30 PM | 07/08/09       | 07/11/09 12:02 AM | 0907195-028A | 07/07/09 10:05 AM | 07/08/09       | 07/13/09 12:36 PM |

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

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

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

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.



# McC Campbell 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: 44381

WorkOrder: 0907195

| EPA Method SW8015B   |        | Extraction SW3550C/3630C |        |        |        |        |        |          | Spiked Sample ID: 0907195-039A |     |          |     |
|----------------------|--------|--------------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| 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) | 250    | 20                       | NR     | NR     | NR     | 92.3   | 83.1   | 10.4     | 70 - 130                       | 30  | 70 - 130 | 30  |
| %SS:                 | 107    | 50                       | 93     | 93     | 0      | 119    | 93     | 24.5     | 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 44381 SUMMARY

| Lab ID       | Date Sampled      | Date Extracted | Date Analyzed     | Lab ID       | Date Sampled      | Date Extracted | Date Analyzed     |
|--------------|-------------------|----------------|-------------------|--------------|-------------------|----------------|-------------------|
| 0907195-023A | 07/07/09 4:30 PM  | 07/08/09       | 07/10/09 8:19 PM  | 0907195-024A | 07/07/09 4:40 PM  | 07/08/09       | 07/10/09 9:30 PM  |
| 0907195-029A | 07/08/09 10:15 AM | 07/08/09       | 07/09/09 9:50 PM  | 0907195-030A | 07/08/09 10:20 AM | 07/08/09       | 07/10/09 10:41 PM |
| 0907195-031A | 07/08/09 12:45 PM | 07/08/09       | 07/09/09 11:10 AM | 0907195-032A | 07/08/09 12:55 PM | 07/08/09       | 07/10/09 7:07 PM  |
| 0907195-033A | 07/08/09 1:05 PM  | 07/08/09       | 07/09/09 1:36 PM  | 0907195-034A | 07/08/09 12:00 PM | 07/08/09       | 07/09/09 2:44 PM  |
| 0907195-035A | 07/08/09 11:15 AM | 07/08/09       | 07/09/09 6:25 PM  | 0907195-036A | 07/08/09 11:24 AM | 07/08/09       | 07/09/09 5:16 PM  |
| 0907195-037A | 07/08/09 11:30 AM | 07/08/09       | 07/10/09 12:06 AM | 0907195-038A | 07/08/09 12:30 PM | 07/08/09       | 07/09/09 8:41 PM  |
| 0907195-039A | 07/08/09 1:10 PM  | 07/08/09       | 07/09/09 2:44 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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|  |  |                                 |
|--|--|---------------------------------|
| Treadwell & Rollo<br>501 14Th Street, 3rd Floor<br>Oakland, CA 94612 | Client Project ID: #4823.02; Alders Property | Date Sampled: 07/06/09-07/07/09 |
|  | Client Contact: Matthew Hall                 | Date Received: 07/07/09         |
|  | Client P.O.:                                 | Date Reported: 07/10/09         |
|  |  | Date Completed: 07/10/09        |

**WorkOrder: 0907143**

July 10, 2009

Dear Matthew:

Enclosed within are:

- 1) The results of the 16 analyzed samples from your project: **#4823.02; Alders Property**,
- 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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.

0907143

**McCAMPBELL ANALYTICAL, INC.**

1534 WILLOW PASS ROAD  
PITTSBURG, CA 94565-1701

Website: [www.mccampbell.com](http://www.mccampbell.com) Email: [main@mccampbell.com](mailto:main@mccampbell.com)  
Telephone: (877) 252-9262 Fax: (925) 252-9269

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME

RUSH  24 HR  48 HR  72 HR  5 DAY

GeoTracker EDF  PDF  Excel  Write On (DW)

Report To: Matthew Hall Bill To: Matthew Hall  
Company: Treadwell & Rollo, Inc.  
501 14<sup>th</sup> Street, 3<sup>rd</sup> Floor, Oakland, CA 94612  
E-Mail: [mbhall@treadwellrollo.com](mailto:mbhall@treadwellrollo.com)  
Tele: ( 510 ) 874-4500 Fax: (510) 874-4507  
Project #: 4823.02 Project Name: Alders Property  
Project Location: 5812 Hollis Street, Emeryville, CA  
Sampler Signature:

Analysis Request Other Comments

| SAMPLE ID      | LOCATION/ Field Point Name | SAMPLING |       | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       | TPH-D, Mo (SW 8015M) | TPH-G, BTEX (SW 8260) | Fuel Oxygenates (SW 8260) | SVOC (SW 8270) | Silica Gel Cleanup | Hold | Filter Samples for Metals analysis: Yes / No |
|----------------|----------------------------|----------|-------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|----------------------|-----------------------|---------------------------|----------------|--------------------|------|--|
|                |                            | Date     | Time  |              |                 | Water  | Soil | Air | Sludge | Other | ICE              | HCL | HNO <sub>3</sub> | Other |                      |                       |                           |                |                    |      |  |
| UST-01 8-8.5   |                            | 7/6/09   | 11:30 | 1            |                 | x      |      |     |        |       | x                |     |                  |       | x                    | x                     | x                         |                | x                  | x    |  |
| UST-01 12-12.2 |                            | 7/6/09   | 11:40 | 1            |                 | x      |      |     |        |       | x                |     |                  |       | x                    | x                     |                           |                | x                  | x    |  |
| UST-01 15-15.2 |                            | 7/6/09   | 11:50 | 1            |                 | x      |      |     |        |       | x                |     |                  |       | x                    | x                     | x                         |                | x                  | x    |  |
| UST-01 19.5-20 |                            | 7/6/09   | 12:00 | 1            |                 | x      |      |     |        |       | x                |     |                  |       | x                    | x                     | x                         |                | x                  | x    |  |
| UST-02 11.5-12 |                            | 7/6/09   | 9:45  | 1            |                 | x      |      |     |        |       | x                |     |                  |       | x                    | x                     | x                         |                | x                  | x    |  |
| UST-02 15-15.5 |                            | 7/6/09   | 9:55  | 1            |                 | x      |      |     |        |       | x                |     |                  |       | x                    | x                     |                           |                | x                  | x    |  |
| UST-02 19.5-20 |                            | 7/6/09   | 10:05 | 1            |                 | x      |      |     |        |       | x                |     |                  |       | x                    | x                     | x                         |                | x                  | x    |  |
| UST-02 27.5-28 |                            | 7/6/09   | 10:15 | 1            |                 | x      |      |     |        |       | x                |     |                  |       | x                    | x                     | x                         |                | x                  | x    |  |
| UST-02 29.5-30 |                            | 7/6/09   | 10:20 | 1            |                 | x      |      |     |        |       | x                |     |                  |       | x                    | x                     |                           |                | x                  | x    |  |
| UST-03 4.5-5   |                            | 7/6/09   | 13:30 | 1            |                 | x      |      |     |        |       | x                |     |                  |       | x                    | x                     | x                         |                | x                  | x    |  |
| UST-03 7.5-8   |                            | 7/6/09   | 13:35 | 1            |                 | x      |      |     |        |       | x                |     |                  |       | x                    | x                     | x                         |                | x                  | x    |  |
| UST-03 10-10.5 |                            | 7/6/09   | 13:40 | 1            |                 | x      |      |     |        |       | x                |     |                  |       | x                    | x                     |                           |                | x                  | x    |  |
| UST-03 13.5-14 |                            | 7/6/09   | 13:45 | 1            |                 | x      |      |     |        |       | x                |     |                  |       | x                    | x                     | x                         |                | x                  | x    |  |
| UST-03 15-15.5 |                            | 7/6/09   | 13:50 | 1            |                 | x      |      |     |        |       | x                |     |                  |       | x                    | x                     |                           |                | x                  | x    |  |

Relinquished By: *[Signature]* Date: 7/7 Time: 13:45  
Received By: *[Signature]*  
Relinquished By: *[Signature]* Date: 7/10 Time: 15:00  
Received By: *[Signature]*  
Relinquished By: Date: Time: Received By:

COMMENTS:  
ICE/VESSELS  
GOOD CONDITION  
HEAD SPACE ABSENT  
DECHLORINATED IN LAB  
APPROPRIATE CONTAINERS  
PRESERVED IN LAB  
VOAS O&G METALS OTHER  
PRESERVATION pH<2

1/2

**McCAMPBELL ANALYTICAL, INC.**

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

0907143

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME

RUSH  24 HR  48 HR  72 HR  5 DAY

GeoTracker EDF  PDF  Excel  Write On (DW)

Report To: Matthew Hall Bill To: Matthew Hall  
Company: Treadwell & Rollo, Inc.  
501 14<sup>th</sup> Street, 3<sup>rd</sup> Floor, Oakland, CA 94612  
E-Mail: [mbhall@treadwellrollo.com](mailto:mbhall@treadwellrollo.com)  
Tele: ( 510 ) 874-4500 Fax: (510) 874-4507  
Project #: 4823.02 Project Name: Alders Property  
Project Location: 5812 Hollis Street, Emeryville, CA  
Sampler Signature:

Analysis Request

Other

Comments

Filter Samples for Metals analysis: Yes / No

| SAMPLE ID      | LOCATION/ Field Point Name | SAMPLING |       | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       | TPH-D, Mo (SW 8015M) | TPH-G, BTEX (SW 8260) | Fuel Oxygenates (SW 8260) | SVOC (SW 8270) | Total Dissolved Solids | Silica Gel Cleanup | Hold |
|----------------|----------------------------|----------|-------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|----------------------|-----------------------|---------------------------|----------------|------------------------|--------------------|------|
|                |                            | Date     | Time  |              |                 | Water  | Soil | Air | Sludge | Other | ICF              | HCL | HNO <sub>3</sub> | Other |                      |                       |                           |                |                        |                    |      |
| UST-03 19.5-20 |                            | 7/6/09   | 14:00 | 1            |                 |        | X    |     |        |       |                  | X   |                  |       |                      |                       |                           |                |                        | X                  | X    |
| UST-04 8.5-9   |                            | 7/6/09   | 12:40 | 1            |                 |        | X    |     |        |       |                  | X   |                  |       | X                    | X                     |                           |                |                        | X                  | X    |
| UST-04 10-10.5 |                            | 7/6/09   | 12:45 | 1            |                 |        | X    |     |        |       |                  | X   |                  |       | X                    | X                     |                           |                |                        | X                  | X    |
| UST-04 15-15.5 |                            | 7/6/09   | 12:55 | 1            |                 |        | X    |     |        |       |                  | X   |                  |       | X                    | X                     |                           |                |                        | X                  | X    |
| UST-04 19.5-20 |                            | 7/6/09   | 13:05 | 1            |                 |        | X    |     |        |       |                  | X   |                  |       |                      |                       |                           |                |                        | X                  | X    |
| UST-01         |                            | 7/7/09   | 9:45  | 5            |                 | X      |      |     |        |       |                  | X   | X                | X     |                      |                       |                           |                |                        | X                  |      |
| UST-02         |                            | 7/7/09   | 10:30 | 2            |                 | X      |      |     |        |       |                  | X   | X                | X     |                      |                       |                           |                |                        | X                  |      |
| UST-03         |                            | 7/7/09   | 10:25 | 3            |                 | X      |      |     |        |       |                  | X   | X                | X     |                      |                       |                           |                |                        |                    |      |
| UST-04         |                            | 7/7/09   | 9:25  | 5            |                 | X      |      |     |        |       |                  | X   | X                | X     |                      |                       |                           |                |                        | X                  |      |

+50  
+51  
+5  
+10

Relinquished By: [Signature] Date: 7/7 Time: 13:45 Received By: [Signature]  
Relinquished By: [Signature] Date: 7/7/09 Time: 2:30 Received By: [Signature]  
Relinquished By: [Signature] Date: [ ] Time: [ ] Received By: [Signature]

COMMENTS:  
ICE: YES 5.2  
GOOD CONDITION  
HEAD SPACE ABSENT  
DECHLORINATED IN LAB  
APPROPRIATE CONTAINERS  
PRESERVED IN LAB  
VOAS O&G METALS OTHER  
PRESERVATION pH<2

**McC Campbell Analytical, Inc.**



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0907143

ClientCode: TWRK

WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

Report to:

Matthew Hall  
Treadwell & Rollo  
501 14Th Street, 3rd Floor  
Oakland, CA 94612  
(510) 874-4500    FAX (510) 874-4507

Email:  
cc:  
PO:  
ProjectNo: #4823.02; Alders Property

Bill to:

Accounts Payable  
Treadwell & Rollo  
501 14Th Street, 3rd Floor  
Oakland, CA 94612  
SEND HARDCOPY

Requested TAT: 3 days

Date Received: 07/07/2009

Date Printed: 07/07/2009

| 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 |  |
| 0907143-001 | UST-01 8-8.5   | Soil   | 7/6/2009 11:30  | <input type="checkbox"/> | A                                  |   |   | A |   |   |   |   |   |    |    |    |  |
| 0907143-003 | UST-01 15-15.2 | Soil   | 7/6/2009 11:50  | <input type="checkbox"/> | A                                  |   |   | A |   |   |   |   |   |    |    |    |  |
| 0907143-004 | UST-01 19.5-20 | Soil   | 7/6/2009 12:00  | <input type="checkbox"/> | A                                  |   |   | A |   |   |   |   |   |    |    |    |  |
| 0907143-005 | UST-02 11.5-12 | Soil   | 7/6/2009 9:45   | <input type="checkbox"/> | A                                  |   |   | A |   |   |   |   |   |    |    |    |  |
| 0907143-007 | UST-02 19.5-20 | Soil   | 7/6/2009 10:05  | <input type="checkbox"/> | A                                  |   |   | A |   |   |   |   |   |    |    |    |  |
| 0907143-008 | UST-02 27.5-28 | Soil   | 7/6/2009 10:15  | <input type="checkbox"/> | A                                  |   |   | A |   |   |   |   |   |    |    |    |  |
| 0907143-010 | UST-03 4.5-5   | Soil   | 7/6/2009 13:30  | <input type="checkbox"/> | A                                  |   |   | A |   |   |   |   |   |    |    |    |  |
| 0907143-011 | UST-03 7.5-8   | Soil   | 7/6/2009 13:35  | <input type="checkbox"/> | A                                  |   |   | A |   |   |   |   |   |    |    |    |  |
| 0907143-013 | UST-03 13.5-14 | Soil   | 7/6/2009 13:45  | <input type="checkbox"/> | A                                  |   |   | A |   |   |   |   |   |    |    |    |  |
| 0907143-016 | UST-04 8.5-9   | Soil   | 7/6/2009 12:40  | <input type="checkbox"/> | A                                  |   |   | A |   |   |   |   |   |    |    |    |  |
| 0907143-017 | UST-04 10-10.5 | Soil   | 7/6/2009 12:45  | <input type="checkbox"/> | A                                  |   |   | A |   |   |   |   |   |    |    |    |  |
| 0907143-018 | UST-04 15-15.5 | Soil   | 7/6/2009 12:55  | <input type="checkbox"/> | A                                  |   |   | A |   |   |   |   |   |    |    |    |  |
| 0907143-020 | UST-01         | Water  | 7/7/2009 9:45   | <input type="checkbox"/> |                                    | B | C |   | A |   |   |   |   |    |    |    |  |
| 0907143-021 | UST-02         | Water  | 7/7/2009 10:30  | <input type="checkbox"/> |                                    | B | C |   | A |   |   |   |   |    |    |    |  |

Test Legend:

|    |               |    |               |   |       |   |               |    |               |
|----|---------------|----|---------------|---|-------|---|---------------|----|---------------|
| 1  | GMBTEXOXYPb_S | 2  | GMBTEXOXYPB_W | 3 | TDS_W | 4 | TPH(DMO)WSG_S | 5  | TPH(DMO)WSG_W |
| 6  |               | 7  |               | 8 |       | 9 |               | 10 |               |
| 11 |               | 12 |               |   |       |   |               |    |               |

Prepared by: Samantha Arbuckle

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.

**McC Campbell Analytical, Inc.**



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0907143

ClientCode: TWRK

WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

Report to:

Matthew Hall  
Treadwell & Rollo  
501 14Th Street, 3rd Floor  
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Email:  
cc:  
PO:  
ProjectNo: #4823.02; Alders Property

Bill to:

Accounts Payable  
Treadwell & Rollo  
501 14Th Street, 3rd Floor  
Oakland, CA 94612  
SEND HARDCOPY

Requested TAT: 3 days

*Date Received: 07/07/2009*

*Date Printed: 07/07/2009*

| 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 |  |
| 0907143-022 | UST-03    | Water  | 7/7/2009 10:05  | <input type="checkbox"/> |                                    | A |   |   |   |   |   |   |   |    |    |    |  |
| 0907143-023 | UST-04    | Water  | 7/7/2009 9:55   | <input type="checkbox"/> |                                    | B | C |   | A |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |              |    |              |   |       |   |               |    |               |
|----|--------------|----|--------------|---|-------|---|---------------|----|---------------|
| 1  | GMBTEXOXPb_S | 2  | GMBTEXOXPB_W | 3 | TDS_W | 4 | TPH(DMO)WSG_S | 5  | TPH(DMO)WSG_W |
| 6  |              | 7  |              | 8 |       | 9 |               | 10 |               |
| 11 |              | 12 |              |   |       |   |               |    |               |

Prepared by: Samantha Arbuckle

**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.mcccampbell.com E-mail: main@mcccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

### Sample Receipt Checklist

Client Name: **Treadwell & Rollo**

Date and Time Received: **07/07/09 7:47:34 PM**

Project Name: **#4823.02; Alders Property**

Checklist completed and reviewed by: **Samantha Arbuckle**

WorkOrder N°: **0907143** Matrix Soil/Water

Carrier: Rob Pringle (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: 5.2°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes  No  No VOA vials submitted
- Sample labels checked for correct preservation? Yes  No
- TTLIC 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:



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"When Quality Counts"

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

|  |  |                                  |
|--|--|----------------------------------|
| Treadwell & Rollo<br><br>501 14Th Street, 3rd Floor<br><br>Oakland, CA 94612 | Client Project ID: #4823.02; Alders Property | Date Sampled: 07/06/09           |
|  | Client Contact: Matthew Hall                 | Date Received: 07/07/09          |
|  | Client P.O.:                                 | Date Extracted: 07/07/09         |
|  |  | Date Analyzed: 07/08/09-07/09/09 |

**TPH(g) & MBTEX by P&T and GC/MS \***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0907143

|           |              |                |                |                |                           |  |
|-----------|--------------|----------------|----------------|----------------|---------------------------|--|
| Lab ID    | 0907143-001A | 0907143-003A   | 0907143-004A   | 0907143-005A   | Reporting Limit for DF =1 |  |
| Client ID | UST-01 8-8.5 | UST-01 15-15.2 | UST-01 19.5-20 | UST-02 11.5-12 |                           |  |
| Matrix    | S            | S              | S              | S              |                           |  |
| DF        | 1            | 1              | 1              | 1              |                           |  |

| Compound                      | Concentration |    |    |    | mg/kg | ug/L |
|-------------------------------|---------------|----|----|----|-------|------|
| TPH(g)                        | ND            | ND | ND | ND | 0.25  | NA   |
| tert-Amyl methyl ether (TAME) | ND            | ND | ND | ND | 0.005 | NA   |
| Benzene                       | ND            | ND | ND | ND | 0.005 | NA   |
| t-Butyl alcohol (TBA)         | ND            | ND | ND | ND | 0.05  | NA   |
| 1,2-Dibromoethane (EDB)       | ND            | ND | ND | ND | 0.004 | NA   |
| 1,2-Dichloroethane (1,2-DCA)  | ND            | ND | ND | ND | 0.004 | NA   |
| Diisopropyl ether (DIPE)      | ND            | ND | ND | ND | 0.005 | NA   |
| Ethylbenzene                  | ND            | ND | ND | ND | 0.005 | NA   |
| Ethyl tert-butyl ether (ETBE) | ND            | ND | ND | ND | 0.005 | NA   |
| Methyl-t-butyl ether (MTBE)   | ND            | ND | ND | ND | 0.005 | NA   |
| Toluene                       | ND            | ND | ND | ND | 0.005 | NA   |
| Xylenes                       | ND            | ND | ND | ND | 0.005 | NA   |

**Surrogate Recoveries (%)**

|       |     |     |     |     |
|-------|-----|-----|-----|-----|
| %SS1: | 83  | 82  | 86  | 84  |
| %SS2: | 108 | 109 | 108 | 110 |

**Comments**

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP &amp; 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; &amp;) low surrogate due to matrix interference.

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|  |  |                                  |
|--|--|----------------------------------|
| Treadwell & Rollo<br><br>501 14Th Street, 3rd Floor<br><br>Oakland, CA 94612 | Client Project ID: #4823.02; Alders Property | Date Sampled: 07/06/09           |
|  | Client Contact: Matthew Hall                 | Date Received: 07/07/09          |
|  | Client P.O.:                                 | Date Extracted: 07/07/09         |
|  |  | Date Analyzed: 07/08/09-07/09/09 |

**TPH(g) & MBTEX by P&T and GC/MS \***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0907143

|           |                |                |              |              |                           |  |
|-----------|----------------|----------------|--------------|--------------|---------------------------|--|
| Lab ID    | 0907143-007A   | 0907143-008A   | 0907143-010A | 0907143-011A | Reporting Limit for DF =1 |  |
| Client ID | UST-02 19.5-20 | UST-02 27.5-28 | UST-03 4.5-5 | UST-03 7.5-8 |                           |  |
| Matrix    | S              | S              | S            | S            |                           |  |
| DF        | 1              | 1              | 1            | 1            |                           |  |

| Compound                      | Concentration |    |    |    | mg/kg | ug/L |
|-------------------------------|---------------|----|----|----|-------|------|
|                               | TPH(g)        | ND | ND | ND | 0.86  | 0.25 |
| tert-Amyl methyl ether (TAME) | ND            | ND | ND | ND | 0.005 | NA   |
| Benzene                       | ND            | ND | ND | ND | 0.005 | NA   |
| t-Butyl alcohol (TBA)         | ND            | ND | ND | ND | 0.05  | NA   |
| 1,2-Dibromoethane (EDB)       | ND            | ND | ND | ND | 0.004 | NA   |
| 1,2-Dichloroethane (1,2-DCA)  | ND            | ND | ND | ND | 0.004 | NA   |
| Diisopropyl ether (DIPE)      | ND            | ND | ND | ND | 0.005 | NA   |
| Ethylbenzene                  | ND            | ND | ND | ND | 0.005 | NA   |
| Ethyl tert-butyl ether (ETBE) | ND            | ND | ND | ND | 0.005 | NA   |
| Methyl-t-butyl ether (MTBE)   | ND            | ND | ND | ND | 0.005 | NA   |
| Toluene                       | ND            | ND | ND | ND | 0.005 | NA   |
| Xylenes                       | ND            | ND | ND | ND | 0.005 | NA   |

**Surrogate Recoveries (%)**

|       |     |     |     |     |
|-------|-----|-----|-----|-----|
| %SS1: | 82  | 84  | 85  | 87  |
| %SS2: | 109 | 106 | 108 | 106 |

**Comments**

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

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

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

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|  |  |                                  |
|--|--|----------------------------------|
| Treadwell & Rollo<br>501 14Th Street, 3rd Floor<br>Oakland, CA 94612 | Client Project ID: #4823.02; Alders Property | Date Sampled: 07/06/09           |
|  | Client Contact: Matthew Hall                 | Date Received: 07/07/09          |
|  | Client P.O.:                                 | Date Extracted: 07/07/09         |
|  |  | Date Analyzed: 07/08/09-07/09/09 |

**TPH(g) & MBTEX by P&T and GC/MS \***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0907143

|           |                |              |                |                |                           |  |
|-----------|----------------|--------------|----------------|----------------|---------------------------|--|
| Lab ID    | 0907143-013A   | 0907143-016A | 0907143-017A   | 0907143-018A   | Reporting Limit for DF =1 |  |
| Client ID | UST-03 13.5-14 | UST-04 8.5-9 | UST-04 10-10.5 | UST-04 15-15.5 |                           |  |
| Matrix    | S              | S            | S              | S              |                           |  |
| DF        | 1              | 1            | 1              | 1              |                           |  |

| Compound                      | Concentration |      |     |      | mg/kg | ug/L |
|-------------------------------|---------------|------|-----|------|-------|------|
|                               | TPH(g)        | 0.46 | 1.9 | 0.81 | ND    | 0.25 |
| tert-Amyl methyl ether (TAME) | ND            | ND   | ND  | ND   | 0.005 | NA   |
| Benzene                       | ND            | ND   | ND  | ND   | 0.005 | NA   |
| t-Butyl alcohol (TBA)         | ND            | ND   | ND  | ND   | 0.05  | NA   |
| 1,2-Dibromoethane (EDB)       | ND            | ND   | ND  | ND   | 0.004 | NA   |
| 1,2-Dichloroethane (1,2-DCA)  | ND            | ND   | ND  | ND   | 0.004 | NA   |
| Diisopropyl ether (DIPE)      | ND            | ND   | ND  | ND   | 0.005 | NA   |
| Ethylbenzene                  | ND            | ND   | ND  | ND   | 0.005 | NA   |
| Ethyl tert-butyl ether (ETBE) | ND            | ND   | ND  | ND   | 0.005 | NA   |
| Methyl-t-butyl ether (MTBE)   | ND            | ND   | ND  | ND   | 0.005 | NA   |
| Toluene                       | ND            | ND   | ND  | ND   | 0.005 | NA   |
| Xylenes                       | ND            | ND   | ND  | ND   | 0.005 | NA   |

**Surrogate Recoveries (%)**

|       |     |     |     |     |  |
|-------|-----|-----|-----|-----|--|
| %SS1: | 85  | 87  | 87  | 83  |  |
| %SS2: | 110 | 106 | 105 | 108 |  |

**Comments**

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP &amp; 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; &amp;) low surrogate due to matrix interference.



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|  |  |                                   |
|--|--|-----------------------------------|
| Treadwell & Rollo<br><br>501 14Th Street, 3rd Floor<br><br>Oakland, CA 94612 | Client Project ID: #4823.02; Alders Property | Date Sampled: 07/07/09            |
|  | Client Contact: Matthew Hall                 | Date Received: 07/07/09           |
|  | Client P.O.:                                 | Date Extracted: 07/08/09-07/09/09 |
|  |  | Date Analyzed: 07/08/09-07/09/09  |

### TPH(g)MBTEX + Oxygenates + EDB and 1,2-DCA\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0907143

| Lab ID    | 0907143-020B | 0907143-021B | 0907143-022A | 0907143-023B | Reporting Limit for DF =1 |   |
|-----------|--------------|--------------|--------------|--------------|---------------------------|---|
| Client ID | UST-01       | UST-02       | UST-03       | UST-04       |                           |   |
| Matrix    | W            | W            | W            | W            |                           |   |
| DF        | 1            | 1            | 1            | 1            |                           |   |
|           |              |              |              |              | S                         | W |

| Compound                      | Concentration |     |    |     | ug/kg | µg/L |
|-------------------------------|---------------|-----|----|-----|-------|------|
| TPH(g)                        | ND            | 390 | ND | 100 | NA    | 50   |
| tert-Amyl methyl ether (TAME) | ND            | ND  | ND | ND  | NA    | 0.5  |
| Benzene                       | ND            | ND  | ND | ND  | NA    | 0.5  |
| t-Butyl alcohol (TBA)         | ND            | 3.1 | ND | ND  | NA    | 2.0  |
| 1,2-Dibromoethane (EDB)       | ND            | ND  | ND | ND  | NA    | 0.5  |
| 1,2-Dichloroethane (1,2-DCA)  | ND            | ND  | ND | ND  | NA    | 0.5  |
| Diisopropyl ether (DIPE)      | ND            | ND  | ND | ND  | NA    | 0.5  |
| Ethylbenzene                  | ND            | ND  | ND | ND  | NA    | 0.5  |
| Ethyl tert-butyl ether (ETBE) | ND            | ND  | ND | ND  | NA    | 0.5  |
| Methyl-t-butyl ether (MTBE)   | ND            | ND  | ND | ND  | NA    | 0.5  |
| Toluene                       | ND            | ND  | ND | ND  | NA    | 0.5  |
| Xylenes                       | ND            | ND  | ND | ND  | NA    | 0.5  |

### Surrogate Recoveries (%)

|          |     |     |       |     |  |
|----------|-----|-----|-------|-----|--|
| %SS1:    | 86  | 87  | 87    | 87  |  |
| %SS2:    | 106 | 106 | 106   | 107 |  |
| Comments | bl  | bl  | b6,bl | bl  |  |

\* 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.

b1) aqueous sample that contains greater than ~1 vol. % sediment

b6) lighter than water immiscible sheen/product is present



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|  |  |                                   |
|--|--|-----------------------------------|
| Treadwell & Rollo<br><br>501 14Th Street, 3rd Floor<br><br>Oakland, CA 94612 | Client Project ID: #4823.02; Alders Property | Date Sampled: 07/07/09            |
|  | Client Contact: Matthew Hall                 | Date Received: 07/07/09           |
|  | Client P.O.:                                 | Date Extracted: 07/08/09-07/09/09 |
|  |  | Date Analyzed 07/09/09-07/10/09   |

### Total Dissolved Solids\*

Analytical Method: SM2540C

Work Order: 0907143

| Lab ID       | Client ID | Matrix | Total Dissolved Solids | DF | Comments |
|--------------|-----------|--------|------------------------|----|----------|
| 0907143-020C | UST-01    | W      | 618                    | 1  | bl       |
| 0907143-021C | UST-02    | W      | 1120                   | 2  | bl       |
| 0907143-023C | UST-04    | W      | 659                    | 1  | bl       |
|              |           |        |                        |    |          |
|              |           |        |                        |    |          |
|              |           |        |                        |    |          |
|              |           |        |                        |    |          |
|              |           |        |                        |    |          |
|              |           |        |                        |    |          |
|              |           |        |                        |    |          |
|              |           |        |                        |    |          |
|              |           |        |                        |    |          |
|              |           |        |                        |    |          |
|              |           |        |                        |    |          |
|              |           |        |                        |    |          |
|              |           |        |                        |    |          |
|              |           |        |                        |    |          |
|              |           |        |                        |    |          |
|              |           |        |                        |    |          |

|   |   |         |
|---|---|---------|
| Reporting Limit for DF = 1; ND means not detected at or above the reporting limit | W | 10 mg/L |
|   | S | NA      |

\* water samples reported in mg/L.

bl) aqueous sample that contains greater than ~1 vol. % sediment

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|  |  |                                  |
|--|--|----------------------------------|
| Treadwell & Rollo<br>501 14Th Street, 3rd Floor<br>Oakland, CA 94612 | Client Project ID: #4823.02; Alders Property | Date Sampled: 07/06/09-07/07/09  |
|  | Client Contact: Matthew Hall                 | Date Received: 07/07/09          |
|  | Client P.O.:                                 | Date Extracted: 07/07/09         |
|  |  | Date Analyzed: 07/08/09-07/10/09 |

**Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up\***

Extraction method: SW3510C/3630C/SW3550C/36

Analytical methods: SW8015B

Work Order: 0907143

| Lab ID       | Client ID      | Matrix | TPH-Diesel (C10-C23) | TPH-Motor Oil (C18-C36) | DF | % SS | Comments |
|--------------|----------------|--------|----------------------|-------------------------|----|------|----------|
| 0907143-001A | UST-01 8-8.5   | S      | 15                   | 16                      | 1  | 113  | e7,e3    |
| 0907143-003A | UST-01 15-15.2 | S      | ND                   | ND                      | 1  | 113  |          |
| 0907143-004A | UST-01 19.5-20 | S      | 15                   | 11                      | 1  | 111  | e3,e7    |
| 0907143-005A | UST-02 11.5-12 | S      | 17                   | 44                      | 2  | 111  | e7,e2    |
| 0907143-007A | UST-02 19.5-20 | S      | ND                   | ND                      | 1  | 115  |          |
| 0907143-008A | UST-02 27.5-28 | S      | 1.0                  | 9.5                     | 1  | 112  | e7,e2    |
| 0907143-010A | UST-03 4.5-5   | S      | ND                   | 7.5                     | 1  | 114  | e7       |
| 0907143-011A | UST-03 7.5-8   | S      | 530                  | 290                     | 5  | 112  | e1,e7    |
| 0907143-013A | UST-03 13.5-14 | S      | 110                  | 66                      | 1  | 111  | e3,e7    |
| 0907143-016A | UST-04 8.5-9   | S      | 260                  | 190                     | 5  | 110  | e3,e7    |
| 0907143-017A | UST-04 10-10.5 | S      | 290                  | 160                     | 5  | 108  | e3,e7    |
| 0907143-018A | UST-04 15-15.5 | S      | 1.8                  | ND                      | 1  | 111  | e2       |
| 0907143-020A | UST-01         | W      | 110                  | ND                      | 1  | 111  | e2,b1    |
| 0907143-021A | UST-02         | W      | 150                  | 390                     | 1  | 115  | e7,e2,b1 |
| 0907143-023A | UST-04         | W      | 2000                 | 1700                    | 1  | 113  | e3,e7,b1 |

|  |   |     |     |       |
|--|---|-----|-----|-------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | W | 50  | 250 | µg/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 McC Campbell Analytical is not responsible for their interpretation:

- b1) aqueous sample that contains greater than ~1 vol. % sediment
- e1) unmodified or weakly modified diesel is significant
- e2) diesel range compounds are significant; no recognizable pattern
- e3) aged diesel is significant
- e7) oil range compounds are significant



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## QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 44322

WorkOrder 0907143

| EPA Method SW8260B            | Extraction SW5030B |        |        |        |       |        |        |       | Spiked Sample ID: 0907143-008A |                         |          |     |
|-------------------------------|--------------------|--------|--------|--------|-------|--------|--------|-------|--------------------------------|-------------------------|----------|-----|
|                               | 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  | 88.8   | 87.9   | 0.994 | 86.6   | 86.4   | 0.274 | 60 - 130                       | 30                      | 60 - 130 | 30  |
| Benzene                       | ND                 | 0.050  | 110    | 108    | 1.84  | 107    | 106    | 0.989 | 60 - 130                       | 30                      | 60 - 130 | 30  |
| t-Butyl alcohol (TBA)         | ND                 | 0.25   | 87.4   | 88.2   | 0.865 | 86.2   | 85.7   | 0.530 | 60 - 130                       | 30                      | 60 - 130 | 30  |
| Chlorobenzene                 | ND                 | 0.050  | 110    | 108    | 1.27  | 110    | 109    | 0.561 | 60 - 130                       | 30                      | 60 - 130 | 30  |
| 1,2-Dibromoethane (EDB)       | ND                 | 0.050  | 96.5   | 96.8   | 0.330 | 96.8   | 96.5   | 0.292 | 60 - 130                       | 30                      | 60 - 130 | 30  |
| 1,2-Dichloroethane (1,2-DCA)  | ND                 | 0.050  | 95.5   | 96.2   | 0.737 | 93     | 91.5   | 1.67  | 60 - 130                       | 30                      | 60 - 130 | 30  |
| 1,1-Dichloroethene            | ND                 | 0.050  | 110    | 107    | 3.19  | 109    | 108    | 0.899 | 60 - 130                       | 30                      | 60 - 130 | 30  |
| Diisopropyl ether (DIPE)      | ND                 | 0.050  | 102    | 101    | 0.984 | 97.6   | 98     | 0.410 | 60 - 130                       | 30                      | 60 - 130 | 30  |
| Ethyl tert-butyl ether (ETBE) | ND                 | 0.050  | 96     | 94.3   | 1.81  | 92.4   | 91.6   | 0.809 | 60 - 130                       | 30                      | 60 - 130 | 30  |
| Methyl-t-butyl ether (MTBE)   | ND                 | 0.050  | 94.5   | 92     | 2.59  | 92.8   | 91.6   | 1.37  | 60 - 130                       | 30                      | 60 - 130 | 30  |
| Toluene                       | ND                 | 0.050  | 108    | 107    | 1.49  | 107    | 107    | 0     | 60 - 130                       | 30                      | 60 - 130 | 30  |
| Trichloroethene               | ND                 | 0.050  | 111    | 109    | 2.22  | 113    | 111    | 2.12  | 60 - 130                       | 30                      | 60 - 130 | 30  |
| %SS1:                         | 84                 | 0.12   | 94     | 94     | 0     | 94     | 95     | 1.20  | 70 - 130                       | 30                      | 70 - 130 | 30  |
| %SS2:                         | 106                | 0.12   | 107    | 107    | 0     | 107    | 107    | 0     | 70 - 130                       | 30                      | 70 - 130 | 30  |
| %SS3:                         | 110                | 0.012  | 105    | 105    | 0     | 105    | 105    | 0     | 70 - 130                       | 30                      | 70 - 130 | 30  |

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

### BATCH 44322 SUMMARY

| Lab ID       | Date Sampled      | Date Extracted | Date Analyzed    | Lab ID       | Date Sampled      | Date Extracted | Date Analyzed    |
|--------------|-------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 0907143-001A | 07/06/09 11:30 AM | 07/07/09       | 07/08/09 4:04 PM | 0907143-003A | 07/06/09 11:50 AM | 07/07/09       | 07/08/09 2:36 PM |
| 0907143-004A | 07/06/09 12:00 PM | 07/07/09       | 07/08/09 4:48 PM | 0907143-005A | 07/06/09 9:45 AM  | 07/07/09       | 07/08/09 5:32 PM |
| 0907143-007A | 07/06/09 10:05 AM | 07/07/09       | 07/08/09 3:20 PM | 0907143-008A | 07/06/09 10:15 AM | 07/07/09       | 07/08/09 1:09 PM |
| 0907143-010A | 07/06/09 1:30 PM  | 07/07/09       | 07/08/09 6:15 PM | 0907143-011A | 07/06/09 1:35 PM  | 07/07/09       | 07/09/09 5:55 PM |
| 0907143-013A | 07/06/09 1:45 PM  | 07/07/09       | 07/09/09 3:04 AM | 0907143-016A | 07/06/09 12:40 PM | 07/07/09       | 07/09/09 6:39 PM |
| 0907143-017A | 07/06/09 12:45 PM | 07/07/09       | 07/09/09 7:22 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 SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 44352

WorkOrder 0907143

| Analyte                       | Extraction SW5030B |        |        |        |        |        |        |          | Spiked Sample ID: 0907192-001A |     |          |     |
|-------------------------------|--------------------|--------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
|                               | 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  | 88.9   | 86.8   | 2.34   | 87.6   | 87.9   | 0.266    | 60 - 130                       | 30  | 60 - 130 | 30  |
| Benzene                       | ND                 | 0.050  | 109    | 107    | 2.11   | 108    | 108    | 0        | 60 - 130                       | 30  | 60 - 130 | 30  |
| t-Butyl alcohol (TBA)         | ND                 | 0.25   | 88.9   | 87.6   | 1.45   | 85.8   | 87.4   | 1.86     | 60 - 130                       | 30  | 60 - 130 | 30  |
| Chlorobenzene                 | ND                 | 0.050  | 110    | 109    | 0.894  | 113    | 114    | 1.07     | 60 - 130                       | 30  | 60 - 130 | 30  |
| 1,2-Dibromoethane (EDB)       | ND                 | 0.050  | 98.1   | 94.3   | 3.86   | 97.6   | 98.9   | 1.30     | 60 - 130                       | 30  | 60 - 130 | 30  |
| 1,2-Dichloroethane (1,2-DCA)  | ND                 | 0.050  | 98.2   | 92.9   | 5.55   | 95.4   | 95     | 0.359    | 60 - 130                       | 30  | 60 - 130 | 30  |
| 1,1-Dichloroethene            | ND                 | 0.050  | 107    | 105    | 2.01   | 109    | 111    | 1.27     | 60 - 130                       | 30  | 60 - 130 | 30  |
| Diisopropyl ether (DIPE)      | ND                 | 0.050  | 103    | 101    | 2.52   | 100    | 99     | 1.46     | 60 - 130                       | 30  | 60 - 130 | 30  |
| Ethyl tert-butyl ether (ETBE) | ND                 | 0.050  | 95.7   | 93.5   | 2.33   | 93.8   | 93.8   | 0        | 60 - 130                       | 30  | 60 - 130 | 30  |
| Methyl-t-butyl ether (MTBE)   | ND                 | 0.050  | 94.4   | 93.4   | 1.08   | 93.1   | 93.4   | 0.360    | 60 - 130                       | 30  | 60 - 130 | 30  |
| Toluene                       | ND                 | 0.050  | 110    | 107    | 2.48   | 109    | 111    | 1.07     | 60 - 130                       | 30  | 60 - 130 | 30  |
| Trichloroethene               | ND                 | 0.050  | 111    | 109    | 2.07   | 114    | 113    | 0.891    | 60 - 130                       | 30  | 60 - 130 | 30  |
| %SS1:                         | 88                 | 0.12   | 94     | 94     | 0      | 94     | 94     | 0        | 70 - 130                       | 30  | 70 - 130 | 30  |
| %SS2:                         | 115                | 0.12   | 107    | 106    | 0.527  | 108    | 108    | 0        | 70 - 130                       | 30  | 70 - 130 | 30  |
| %SS3:                         | 106                | 0.012  | 106    | 105    | 0.297  | 106    | 105    | 0.659    | 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 44352 SUMMARY

| Lab ID       | Date Sampled      | Date Extracted | Date Analyzed    | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-------------------|----------------|------------------|--------|--------------|----------------|---------------|
| 0907143-018A | 07/06/09 12:55 PM | 07/07/09       | 07/08/09 1:53 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.





# McC Campbell Analytical, Inc.

"When Quality Counts"

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

## QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 44356

WorkOrder 0907143

| Analyte                       | Extraction SW5030B |        |        |        |        |       |        |          | Spiked Sample ID: 0907143-020B |     |          |     |
|-------------------------------|--------------------|--------|--------|--------|--------|-------|--------|----------|--------------------------------|-----|----------|-----|
|                               | Sample             | Spiked | MS     | MSD    | MS-MSD | LCS   | LCSD   | LCS-LCSD | Acceptance Criteria (%)        |     |          |     |
|                               | µg/L               | µg/L   | % Rec. | % Rec. | % RPD  | % Rec | % Rec. | % RPD    | MS / MSD                       | RPD | LCS/LCSD | RPD |
| tert-Amyl methyl ether (TAME) | ND                 | 10     | 103    | 103    | 0      | 115   | 117    | 1.72     | 70 - 130                       | 30  | 70 - 130 | 30  |
| Benzene                       | ND                 | 10     | 107    | 110    | 1.97   | 121   | 124    | 1.84     | 70 - 130                       | 30  | 70 - 130 | 30  |
| t-Butyl alcohol (TBA)         | ND                 | 50     | 104    | 100    | 3.80   | 104   | 111    | 5.69     | 70 - 130                       | 30  | 70 - 130 | 30  |
| Chlorobenzene                 | ND                 | 10     | 107    | 109    | 1.31   | 122   | 124    | 1.32     | 70 - 130                       | 30  | 70 - 130 | 30  |
| 1,2-Dibromoethane (EDB)       | ND                 | 10     | 109    | 108    | 0.990  | 120   | 122    | 1.78     | 70 - 130                       | 30  | 70 - 130 | 30  |
| 1,2-Dichloroethane (1,2-DCA)  | ND                 | 10     | 103    | 104    | 1.54   | 115   | 116    | 1.14     | 70 - 130                       | 30  | 70 - 130 | 30  |
| 1,1-Dichloroethene            | ND                 | 10     | 103    | 106    | 2.87   | 118   | 120    | 1.56     | 70 - 130                       | 30  | 70 - 130 | 30  |
| Diisopropyl ether (DIPE)      | ND                 | 10     | 107    | 109    | 1.92   | 121   | 122    | 1.14     | 70 - 130                       | 30  | 70 - 130 | 30  |
| Ethyl tert-butyl ether (ETBE) | ND                 | 10     | 105    | 106    | 1.29   | 117   | 118    | 0.530    | 70 - 130                       | 30  | 70 - 130 | 30  |
| Methyl-t-butyl ether (MTBE)   | ND                 | 10     | 106    | 107    | 0.631  | 117   | 119    | 2.14     | 70 - 130                       | 30  | 70 - 130 | 30  |
| Toluene                       | ND                 | 10     | 101    | 102    | 0.757  | 115   | 117    | 2.01     | 70 - 130                       | 30  | 70 - 130 | 30  |
| Trichloroethene               | ND                 | 10     | 109    | 109    | 0      | 124   | 124    | 0        | 70 - 130                       | 30  | 70 - 130 | 30  |
| %SS1:                         | 86                 | 25     | 98     | 98     | 0      | 97    | 98     | 0.596    | 70 - 130                       | 30  | 70 - 130 | 30  |
| %SS2:                         | 106                | 25     | 101    | 101    | 0      | 102   | 102    | 0        | 70 - 130                       | 30  | 70 - 130 | 30  |
| %SS3:                         | 119                | 2.5    | 104    | 104    | 0      | 104   | 103    | 1.28     | 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 44356 SUMMARY

| Lab ID       | Date Sampled      | Date Extracted | Date Analyzed     | Lab ID       | Date Sampled      | Date Extracted | Date Analyzed     |
|--------------|-------------------|----------------|-------------------|--------------|-------------------|----------------|-------------------|
| 0907143-020B | 07/07/09 9:45 AM  | 07/08/09       | 07/08/09 10:44 PM | 0907143-021B | 07/07/09 10:30 AM | 07/08/09       | 07/08/09 11:27 PM |
| 0907143-022A | 07/07/09 10:05 AM | 07/09/09       | 07/09/09 3:00 PM  | 0907143-023B | 07/07/09 9:55 AM  | 07/09/09       | 07/09/09 12:54 AM |

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

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

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

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

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

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



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### QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

**Test Method: Total Dissolved Solids**

**Matrix: W**

**WorkOrder: 0907143**

| Method Name: SM2540C |        | Units mg/L |                 |    | BatchID: 44355 |                         |
|----------------------|--------|------------|-----------------|----|----------------|-------------------------|
| Lab ID               | Sample | DF         | Dup / Ser. Dil. | DF | % RPD          | Acceptance Criteria (%) |
| 0907143-020C         | 618    | 1          | 650             | 2  | 5.05           | <20                     |
| 0907143-021C         | 1120   | 2          | 1140            | 2  | 1.06           | <20                     |
| 0907143-023C         | 659    | 1          | 650             | 2  | 1.37           | <20                     |

#### BATCH 44355 SUMMARY

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    | Lab ID       | Date Sampled      | Date Extracted | Date Analyzed    |
|--------------|------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 0907143-020C | 07/07/09 9:45 AM | 07/08/09       | 07/09/09 1:15 PM | 0907143-021C | 17/07/09 10:30 AM | 07/09/09       | 07/10/09 1:15 PM |
| 0907143-023C | 07/07/09 9:55 AM | 07/08/09       | 07/09/09 1:45 PM |              |                   |                |                  |

Dup = Duplicate; Ser Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

$RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]$

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.



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## QC SUMMARY REPORT FOR SW8015B

W.O Sample Matrix: Soil

QC Matrix: Soil

BatchID: 44313

WorkOrder: 0907143

| EPA Method SW8015B   |        | Extraction SW3550C/3630C |        |        |        |        |        |          | Spiked Sample ID: 0907117-003A |     |          |     |
|----------------------|--------|--------------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| 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 |
| TPH-Diesel (C10-C23) | 400    | 20                       | NR     | NR     | NR     | 78.7   | 78.8   | 0.111    | 70 - 130                       | 30  | 70 - 130 | 30  |
| %SS:                 | 90     | 50                       | 88     | 93     | 5.66   | 115    | 115    | 0        | 70 - 130                       | 30  | 70 - 130 | 30  |

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

### BATCH 44313 SUMMARY

| Lab ID       | Date Sampled      | Date Extracted | Date Analyzed     | Lab ID       | Date Sampled      | Date Extracted | Date Analyzed     |
|--------------|-------------------|----------------|-------------------|--------------|-------------------|----------------|-------------------|
| 0907143-001A | 07/06/09 11:30 AM | 07/07/09       | 07/08/09 10:48 PM | 0907143-003A | 07/06/09 11:50 AM | 07/07/09       | 07/08/09 8:26 PM  |
| 0907143-004A | 07/06/09 12:00 PM | 07/07/09       | 07/09/09 12:57 PM | 0907143-005A | 07/06/09 9:45 AM  | 07/07/09       | 07/10/09 8:58 AM  |
| 0907143-007A | 07/06/09 10:05 AM | 07/07/09       | 07/09/09 3:25 AM  | 0907143-008A | 07/06/09 10:15 AM | 07/07/09       | 07/10/09 10:09 AM |
| 0907143-010A | 07/06/09 1:30 PM  | 07/07/09       | 07/09/09 4:33 AM  | 0907143-011A | 07/06/09 1:35 PM  | 07/07/09       | 07/09/09 9:32 PM  |
| 0907143-013A | 07/06/09 1:45 PM  | 07/07/09       | 07/09/09 2:16 AM  | 0907143-016A | 07/06/09 12:40 PM | 07/07/09       | 07/09/09 5:58 PM  |
| 0907143-017A | 07/06/09 12:45 PM | 07/07/09       | 07/09/09 4:46 PM  | 0907143-018A | 07/06/09 12:55 PM | 07/07/09       | 07/09/09 11:35 AM |

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

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

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

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

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



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### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 44354

WorkOrder: 0907143

| EPA Method: SW8015B  |        | Extraction: SW3510C/3630C |        |        |        |        |        |          | 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    | 84.6   | 84.2   | 0.471    | N/A                     | N/A | 70 - 130 | 30  |
| %SS:                 | N/A    | 2500                      | N/A    | N/A    | N/A    | 111    | 111    | 0        | N/A                     | N/A | 70 - 130 | 30  |

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

#### BATCH 44354 SUMMARY

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    | Lab ID       | Date Sampled      | Date Extracted | Date Analyzed     |
|--------------|------------------|----------------|------------------|--------------|-------------------|----------------|-------------------|
| 0907143-020A | 07/07/09 9:45 AM | 07/07/09       | 07/08/09 9:37 PM | 0907143-021A | 07/07/09 10:30 AM | 07/07/09       | 07/10/09 12:59 AM |
| 0907143-023A | 07/07/09 9:55 AM | 07/07/09       | 07/09/09 7:58 AM |              |                   |                |                   |

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

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


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

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

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

DHS ELAP Certification 1644

QA/QC Officer

|   |   |  |
|---|---|--|
|  <b>McC Campbell Analytical, Inc.</b><br>"When Quality Counts" | 1534 Willow Pass Road, Pittsburg, CA 94565-1701<br>Web: www.mcccampbell.com E-mail: maun@mcccampbell.com<br>Telephone: 877-252-9262 Fax: 925-252-9269 |  |
|   | Treadwell & Rollo<br>501 14Th Street, 3rd Floor<br>Oakland, CA 94612  | Client Project ID: #4823.02; Alders Property<br>Client Contact: Matthew Hall<br>Client P.O.: |

**WorkOrder: 0907143**

July 17, 2009

Dear Matthew:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: **#4823.02; Alders Property,**
- 2) A QC report for the above sample,
- 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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

0907143

**McCAMPBELL ANALYTICAL, INC.**

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

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME       
RUSH 24HR 48 HR 72 HR 5 DAY  
 GeoTracker EDF  PDF  Excel  Write On (DW)

Report To: Matthew Hall Bill To: Matthew Hall  
Company: Treadwell & Rollo, Inc.  
501 14<sup>th</sup> Street, 3<sup>rd</sup> Floor, Oakland, CA 94612  
E-Mail: [mbhall@treadwellrollo.com](mailto:mbhall@treadwellrollo.com)  
Tele: ( 510 ) 874-4500 Fax: (510) 874-4507  
Project #: 4823.02 Project Name: Alders Property  
Project Location: 5812 Hollis Street, Emeryville, CA  
Sampler Signature:

Analysis Request Other Comments

| SAMPLE ID      | LOCATION/ Field Point Name | SAMPLING |       | # Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       | TPH-D, Mo (SW 8015M) | TPH-G, BTEX (SW 8260) | Fuel Oxygenates (SW 8260) | SVOC (SW 8270) | TPH (D+M) added per Mat | TPH (G) by 8260 72hrs 01/15/09 | Silica Gel Cleanup | Hold | Filter Samples for Metals analysis: Yes / No |  |
|----------------|----------------------------|----------|-------|--------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|----------------------|-----------------------|---------------------------|----------------|-------------------------|--------------------------------|--------------------|------|--|--|
|                |                            | Date     | Time  |              |                 | Water  | Soil | Air | Sludge | Other | ICE              | HCL | HNO <sub>3</sub> | Other |                      |                       |                           |                |                         |                                |                    |      |  |  |
| UST-01 8-8.5   |                            | 7/6/09   | 11:30 | 1            |                 |        | x    |     |        |       | x                |     |                  |       | x                    | x                     | x                         |                |                         |                                | x                  | x    |  |  |
| UST-01 12-12.2 |                            | 7/6/09   | 11:40 | 1            |                 |        | x    |     |        |       | x                |     |                  |       |                      |                       |                           |                |                         |                                |                    | x    | x  |  |
| UST-01 15-15.2 |                            | 7/6/09   | 11:50 | 1            |                 |        | x    |     |        |       | x                |     |                  |       | x                    | x                     | x                         |                |                         |                                |                    | x    | x  |  |
| UST-01 19.5-20 |                            | 7/6/09   | 12:00 | 1            |                 |        | x    |     |        |       | x                |     |                  |       | x                    | x                     | x                         |                |                         |                                |                    | x    | x  |  |
| UST-02 11.5-12 |                            | 7/6/09   | 9:45  | 1            |                 |        | x    |     |        |       | x                |     |                  |       | x                    | x                     | x                         |                |                         |                                |                    | x    | x  |  |
| UST-02 15-15.5 |                            | 7/6/09   | 9:55  | 1            |                 |        | x    |     |        |       | x                |     |                  |       |                      |                       |                           |                |                         |                                |                    | x    | x  |  |
| UST-02 19.5-20 |                            | 7/6/09   | 10:05 | 1            |                 |        | x    |     |        |       | x                |     |                  |       | x                    | x                     | x                         |                |                         |                                |                    | x    | x  |  |
| UST-02 27.5-28 |                            | 7/6/09   | 10:15 | 1            |                 |        | x    |     |        |       | x                |     |                  |       | x                    | x                     | x                         |                |                         |                                |                    | x    | x  |  |
| UST-02 29.5-30 |                            | 7/6/09   | 10:20 | 1            |                 |        | x    |     |        |       | x                |     |                  |       |                      |                       |                           |                |                         |                                |                    | x    | x  |  |
| UST-03 4.5-5   |                            | 7/6/09   | 13:30 | 1            |                 |        | x    |     |        |       | x                |     |                  |       | x                    | x                     | x                         |                |                         |                                |                    | x    | x  |  |
| UST-03 7.5-8   |                            | 7/6/09   | 13:35 | 1            |                 |        | x    |     |        |       | x                |     |                  |       | x                    | x                     | x                         |                |                         |                                |                    | x    | x  |  |
| UST-03 10-10.5 |                            | 7/6/09   | 13:40 | 1            |                 |        | x    |     |        |       | x                |     |                  |       |                      |                       |                           |                |                         |                                |                    | x    | x  |  |
| UST-03 13.5-14 |                            | 7/6/09   | 13:45 | 1            |                 |        | x    |     |        |       | x                |     |                  |       | x                    | x                     | x                         |                |                         |                                |                    | x    | x  |  |
| UST-03 15-15.5 |                            | 7/6/09   | 13:50 | 1            |                 |        | x    |     |        |       | x                |     |                  |       |                      |                       |                           |                |                         |                                |                    | x    | x  |  |

Relinquished By: *[Signature]* Date: 7/7 Time: 13:45 Received By: *[Signature]*  
Relinquished By: *[Signature]* Date: 7/7/09 Time: 13:45 Received By: *[Signature]*  
Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

COMMENTS:  
ICE/VOL 255.2 ✓  
GOOD CONDITION ✓  
HEAD SPACE ABSENT ✓  
DECHLORINATED IN LAB ✓  
APPROPRIATE CONTAINERS ✓  
PRESERVED IN LAB ✓  
VOAS O&G METALS OTHER  
PRESERVATION pH<2

1/2

**McC Campbell Analytical, Inc.**



1534 Willow Pass Rd  
 Pittsburg, CA 94565-1701  
 (925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 090714 **A** ClientCode: TWRK

WriteOn  EDF  Excel  Fax  Email  HardCopy  ThirdParty  J-flag

Report to:

Matthew Hall  
 Treadwell & Rollo  
 501 14Th Street, 3rd Floor  
 Oakland, CA 94612  
 (510) 874-4500 FAX (510) 874-4507

Email: mbhall@treadwellrollo.com  
 cc: tacampitelli@treadwellrollo.com  
 PO:  
 ProjectNo: #4823.02; Alders Property

Bill to:

Accounts Payable  
 Treadwell & Rollo  
 501 14Th Street, 3rd Floor  
 Oakland, CA 94612  
 SEND HARDCOPY

Requested TAT: 3 days

Date Received: 07/07/2009

Date Add-On: 07/15/2009

Date Printed: 07/15/2009

| 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 |  |  |
| 0907143-014 | UST-03 15-15.5 | Soil   | 7/6/2009 13:50  | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |  |

Test Legend:

|    |           |    |               |   |  |   |  |    |  |
|----|-----------|----|---------------|---|--|---|--|----|--|
| 1  | GAS8260 S | 2  | TPH(DMO)WSG S | 3 |  | 4 |  | 5  |  |
| 6  |           | 7  |               | 8 |  | 9 |  | 10 |  |
| 11 |           | 12 |               |   |  |   |  |    |  |

Prepared by: Samantha Arbuckle

Comments: TPH(d&mo) WSG and TPHg by 8260 added to UST 3 15-15.5, 72hr per Matt 07/15/09.

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

|  |  |                          |
|--|--|--------------------------|
| Treadwell & Rollo<br><br>501 14Th Street, 3rd Floor<br><br>Oakland, CA 94612 | Client Project ID: #4823.02; Alders Property | Date Sampled: 07/06/09   |
|  | Client Contact: Matthew Hall                 | Date Received: 07/07/09  |
|  | Client P.O.:                                 | Date Extracted: 07/15/09 |
|  |  | Date Analyzed 07/16/09   |

**TPH(g) by GC/MS\***

Extraction method SW5030B Analytical methods SW8260B Work Order: 0907143

| Lab ID | Client ID      | Matrix | TPH(g) | DF | % SS | Comments |
|--------|----------------|--------|--------|----|------|----------|
| 014A   | UST-03 15-15.5 | S      | ND     | 1  | 113  |          |
|        |                |        |        |    |      |          |
|        |                |        |        |    |      |          |
|        |                |        |        |    |      |          |
|        |                |        |        |    |      |          |
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|        |                |        |        |    |      |          |
|        |                |        |        |    |      |          |
|        |                |        |        |    |      |          |
|        |                |        |        |    |      |          |
|        |                |        |        |    |      |          |
|        |                |        |        |    |      |          |
|        |                |        |        |    |      |          |
|        |                |        |        |    |      |          |
|        |                |        |        |    |      |          |
|        |                |        |        |    |      |          |

|   |   |      |       |
|---|---|------|-------|
| Reporting Limit for DF=1;<br>ND means not detected at or<br>above the reporting limit | W | NA   | NA    |
|   | S | 0.25 | mg/kg |

\* 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.





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|  |  |                          |
|--|--|--------------------------|
| Treadwell & Rollo<br><br>501 14Th Street, 3rd Floor<br><br>Oakland, CA 94612 | Client Project ID: #4823.02; Alders Property | Date Sampled: 07/06/09   |
|  | Client Contact: Matthew Hall                 | Date Received: 07/07/09  |
|  | Client P.O.:                                 | Date Extracted: 07/15/09 |
|  |  | Date Analyzed: 07/17/09  |

### Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up\*

Extraction method: SW3550C/3630C

Analytical methods SW8015B

Work Order: 0907143

| Lab ID       | Client ID      | Matrix | TPH-Diesel (C10-C23) | TPH-Motor Oil (C18-C36) | DF | % SS | Comments |
|--------------|----------------|--------|----------------------|-------------------------|----|------|----------|
| 0907143-014A | UST-03 15-15.5 | S      | ND                   | ND                      | 1  | 105  |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |
|              |                |        |                      |                         |    |      |          |

|  |   |     |     |       |
|--|---|-----|-----|-------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>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 McC Campbell Analytical is not responsible for their interpretation:

 Angela Rydelius, Lab Manager



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## QC SUMMARY REPORT FOR SW8260B

W.O Sample Matrix: Soil

QC Matrix: Soil

BatchID: 44523

WorkOrder: 0907143

| EPA Method SW8260B            | Extraction SW5030B |        |        |        |        |        |        |        | Spiked Sample ID: 0907335-072A |                         |          |     |
|-------------------------------|--------------------|--------|--------|--------|--------|--------|--------|--------|--------------------------------|-------------------------|----------|-----|
|                               | 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  | 85.4   | 84.4   | 1.13   | 98.8   | 98.8   | 0      | 60 - 130                       | 30                      | 60 - 130 | 30  |
| Benzene                       | ND                 | 0.050  | 102    | 101    | 1.05   | 109    | 115    | 5.64   | 60 - 130                       | 30                      | 60 - 130 | 30  |
| t-Butyl alcohol (TBA)         | ND                 | 0.25   | 83.3   | 84.7   | 1.70   | 94.8   | 98.4   | 3.70   | 60 - 130                       | 30                      | 60 - 130 | 30  |
| Chlorobenzene                 | ND                 | 0.050  | 113    | 110    | 2.56   | 122    | 126    | 3.70   | 60 - 130                       | 30                      | 60 - 130 | 30  |
| 1,2-Dibromoethane (EDB)       | ND                 | 0.050  | 90.3   | 89.8   | 0.614  | 104    | 103    | 0.949  | 60 - 130                       | 30                      | 60 - 130 | 30  |
| 1,2-Dichloroethane (1,2-DCA)  | ND                 | 0.050  | 90.8   | 89.3   | 1.73   | 102    | 105    | 2.24   | 60 - 130                       | 30                      | 60 - 130 | 30  |
| Diisopropyl ether (DIPE)      | ND                 | 0.050  | 93.5   | 93.5   | 0      | 101    | 106    | 4.77   | 60 - 130                       | 30                      | 60 - 130 | 30  |
| Ethyl tert-butyl ether (ETBE) | ND                 | 0.050  | 90.1   | 90.2   | 0.0584 | 102    | 105    | 2.24   | 60 - 130                       | 30                      | 60 - 130 | 30  |
| Methyl-t-butyl ether (MTBE)   | ND                 | 0.050  | 89.4   | 88.1   | 1.51   | 104    | 105    | 1.11   | 60 - 130                       | 30                      | 60 - 130 | 30  |
| Toluene                       | ND                 | 0.050  | 111    | 110    | 1.08   | 122    | 127    | 4.34   | 60 - 130                       | 30                      | 60 - 130 | 30  |
| Trichloroethene               | ND                 | 0.050  | 112    | 110    | 1.33   | 116    | 125    | 6.87   | 60 - 130                       | 30                      | 60 - 130 | 30  |
| %SS1:                         | 85                 | 0.12   | 100    | 99     | 0.458  | 103    | 102    | 1.44   | 70 - 130                       | 30                      | 70 - 130 | 30  |
| %SS2:                         | 118                | 0.12   | 109    | 109    | 0      | 107    | 109    | 1.53   | 70 - 130                       | 30                      | 70 - 130 | 30  |
| %SS3:                         | 117                | 0.012  | 108    | 108    | 0      | 108    | 107    | 0.0592 | 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 44523 SUMMARY

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed     | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|------------------|----------------|-------------------|--------|--------------|----------------|---------------|
| 0907143-014A | 07/06/09 1:50 PM | 07/15/09       | 07/16/09 10:34 PM |        |              |                |               |

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

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

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery. The LCS and LCSD are spikes into a clean, known, similar matrix and they and the surrogate standards reflect the overall validity of their extraction batch. Our control limits are 70-130% recovery and a 30% RPD for the LCS-LCSD and for the Surrogate Standards.

DHS ELAP Certification 1644

 QA/QC Officer



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## QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 44440

WorkOrder 0907143

| EPA Method SW8015B   |        | Extraction SW3550C/3630C |        |        |        |        |        |          | Spiked Sample ID: 0907263-003A |     |          |     |
|----------------------|--------|--------------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| 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 |
| TPH-Diesel (C10-C23) | ND     | 20                       | 95.1   | 93.7   | 1.48   | 98.6   | 98.5   | 0.0586   | 70 - 130                       | 30  | 70 - 130 | 30  |
| %SS:                 | 94     | 50                       | 115    | 114    | 0.945  | 100    | 95     | 5.47     | 70 - 130                       | 30  | 70 - 130 | 30  |

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

### BATCH 44440 SUMMARY

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|------------------|----------------|------------------|--------|--------------|----------------|---------------|
| 0907143-014A | 07/06/09 1:50 PM | 07/15/09       | 07/17/09 9:11 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.