
W A R E H A M D E V E L O P M E N T

July 28, 2005

Alameda County Health Care Services Agency
Attention: Finance Department
1131 Harbor Bay Parkway
Alameda, CA 94502

Subject: Regulatory Oversight
R.O. 2621
5885 Hollis Street
Emeryville, California


Alameda County
AUG 02 2005
Environmental Health

To Whom It May Concern:

Enclosed is a check for \$6,000 for the initial deposit on the regulatory oversight account (R.O. 2621) for the 5885 Hollis Street property. Wareham Development is planning to redevelop the property in Emeryville and has recently submitted several documents for review. Based upon discussions with Ms. Donna Drogos, the enclosed check is required to allow for assignment of an Alameda County Health Care Services Agency case worker for the subject property.

Due to the proposed schedule for construction at the property, Wareham Development is amenable to overtime staff charges to expedite review of the documents. Please call me at (415) 457-4964 if you have any questions.

Sincerely yours,


Geoffrey B. Sears

enclosure

cc: ✓ Donna Drogos, Alameda County Health Care Services Agency (w/o enclosure)
Ignacio Dayrit, City of Emeryville (w/o enclosure)

Treadwell & Rollo

14 July 2005
Project 4069.01

Ms. Donna Drogos
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Subject: Site Management Plan
5885 Hollis Street
Emeryville, California

Alameda County
JUL 19 2005
Environmental Health

Dear Ms. Drogos:

On behalf of Wareham Development, Treadwell & Rollo has prepared the enclosed Site Management Plan (SMP) for the proposed development of the 5885 Hollis Street property for your approval. Correspondence in 2000 and 2001 with Susan Hugo of the Alameda County Health Care Services Agency indicated that there were several environmental issues to be addressed prior to redevelopment of the property (under STID#6687). The previous redevelopment plan, by Marks Management, was for commercial use. Marks Management, the current property owner, is no longer planning on implementing their redevelopment plan. Wareham Development intends to purchase the property and demolish the existing buildings and construct a multi-story office building (likely to be laboratory space) with a sub-grade, mechanically-ventilated parking garage at the Site.

The enclosed SMP has been prepared to address concerns raised by the Alameda County Health Care Services Agency in 2001 regarding the Marks Management Development, as well as issues identified during Treadwell & Rollo's 2005 Phase II Environmental Site Assessment conducted during Wareham Development's due diligence period. A copy of the 3 March 2005 Phase II Environmental Site Assessment Report is also included for your review, although the data from the 2005 report is incorporated into the SMP.

Please call me at (510) 874-4500 at extension 554 (Glenn) if you have any questions.

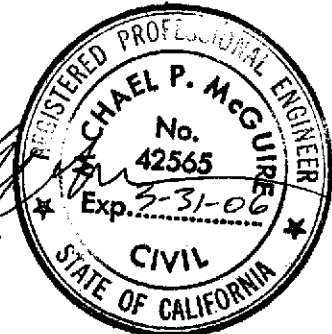
Sincerely yours,
TREADWELL & ROLLO, INC.



Glenn M. Leong
Senior Scientist



Michael P. McGuire, P.E.
Principal Engineer



41690102.OAK

cc: Geoff Sears, Wareham Development
Ignacio Dayrit, City of Emeryville

Treadwell & Rollo

3 March 2005
Project 4069.01

Mr. Geoffrey Sears
Wareham Development
1120 Nye Street, Suite 400
San Rafael, CA 94901

Subject: Phase II Environmental Site Assessment Report
5885 Hollis Street
Emeryville, California

Alameda County
Environmental Health
JUL 19 2005

Dear Mr. Sears:

Treadwell & Rollo, Inc. is pleased to present this Phase II Environmental Site Assessment Report for the property at 5885 Hollis Street in Emeryville, California. Our scope of services for this project consisted of completing a Phase II soil and groundwater investigation in accordance with our 30 December 2004 proposal to Wareham Development.

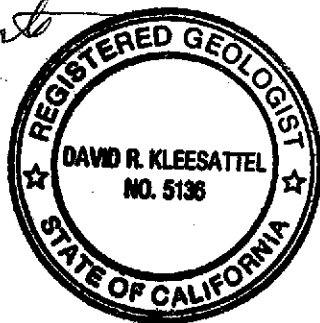
We appreciate the opportunity to assist Wareham Development with this project. Please let us know if you have any questions or comments regarding this report.

Sincerely,
TREADWELL & ROLLO, INC.



David R. Kleesattel, R.G.
Senior Geologist

Attachment



Michael P. McGuire, P.E.
Principal Engineer

**PHASE II
ENVIRONMENTAL SITE ASSESSMENT
5885 HOLLIS STREET
Emeryville, California**

**Wareham Development
San Rafael, California**

**3 March 2005
Project No. 4069.01**

Treadwell&Rollo

Environmental and Geotechnical Consultants

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**PHASE II ENVIRONMENTAL SITE ASSESSMENT
5885 HOLLIS STREET
Emeryville, California**

1.0 INTRODUCTION

This report presents the results of a Phase II Environmental Site Assessment (ESA) performed by Treadwell & Rollo, Inc. (Treadwell & Rollo) for the property located at 5885 Hollis Street in Emeryville, CA, as shown on Figure 1. This ESA was performed in accordance with the scope of work outlined in our proposal dated 30 December 2004, which was authorized by Wareham Development.

The project site is approximately 220 feet by 550 feet in plan dimension and is bounded by Hollis Street to the east, 59th Street to the north, Peladeau Street to the west, and a Chevron Service Station and Powell Street to the south (Figure 2). The site is currently occupied with four buildings: a one-story concrete building that occupies 5805 through 5885 Hollis Street, a one-story concrete building that occupies 5810 through 5890 Peladeau Street, and two one-story metal-framed buildings that occupy 5805 Hollis Street. The remaining area is asphalt-paved parking.

We understand that Wareham Development is considering potential development plans for the site which may include removing the existing buildings and constructing new residential or commercial buildings on the site.

2.0 OBJECTIVE AND SCOPE OF SERVICES

The objective of this Phase II ESA was to assess whether hazardous substances or petroleum products may have affected soil and/or groundwater beneath the site. Recognized environmental conditions were previously identified in the ESA prepared by Weiss Associates, dated 14 March 1995, and the Treadwell & Rollo report titled *Environmental Site Characterization, 5885 Hollis Street, Emeryville, California*, dated 12 May 2000. These recognized environmental conditions

include the previous use of the site as a Union Oil Company distribution facility and an Intermountain Terminal Company truck storage area and parts warehouse. Also, a Chevron Service Station is located immediately adjacent to the project site to the south. Treadwell & Rollo concluded that these past and current activities may have affected soil and groundwater at the site. In addition, the site is potentially underlain by artificial (imported) fill material, which often contains elevated concentrations of lead. For these reasons, Treadwell & Rollo proposed to sample soil and groundwater at the site. The scope of work for the Phase II ESA is described below.

To investigate possible contamination of site soil and groundwater from previous potential sources of contaminants, Treadwell & Rollo installed nine environmental soil borings (TR-19 through TR-22, TR-25, and TR-28 through TR-31 on Figure 2), collected soil samples, and collected grab groundwater samples from four of the borings. Five additional sampling locations were proposed based on previous site operations, but were inaccessible due to existing buildings at the site. Soil and groundwater samples were selectively analyzed for Total Extractable Petroleum Hydrocarbons (TEPH), which includes diesel fuel and motor oil, Total Petroleum Hydrocarbons quantified as Gasoline (TPH-G), benzene, toluene, ethylbenzene and total xylenes (BTEX), volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), and total lead.

3.0 FIELD INVESTIGATION

On 20 January 2005, five borings were advanced by Precision Sampling Inc., using a limited access Vibra Push XD Series drill rig equipped with direct push technology, and four borings were advanced using a hand auger because of space constraints, along and behind the buildings at the south end of the project site. An Alameda County Drilling Permit was obtained, and the proposed drilling locations were cleared through Underground Services Alert (USA) and a private utility locator retained by Treadwell & Rollo. The borings were advanced through asphalt or concrete ground cover at the locations shown in Figure 2. The nine borings were advanced between 6.5 and 13 feet below ground surface (bgs) for the purpose of soil and groundwater sampling.

During advancement of the borings, a Treadwell & Rollo field scientist logged the borings and retrieved representative samples of the soil encountered for further classification. Logs of borings TR-19 through TR-22, TR-25, and TR-28 through TR-31 are presented in Appendix A on Figures A-1 through A-9. The soil was classified in accordance with the classification system presented on Figure A-10.

Soil samples were collected from borings TR-20 through TR-22, TR-25, and TR-28 through TR-30 at 2.0 feet and 6.0 feet bgs and from borings TR-19 and TR-31 at approximately 2.5 feet and 6.0 feet bgs. In borings TR-19, TR-20, TR-29, TR-30, and TR-31 subsurface soil samples were retrieved from the direct-push borings in two-inch-diameter, three-foot-long butyrate tubes. Six-inch-long sections selected by our field scientist were cut, capped with Teflon™ sheeting and plastic caps, labeled, and submitted for laboratory analysis. In borings TR-21, TR-22, TR-25, and TR-28 subsurface soil samples were collected in stainless steel sampling tubes using a manual hand auger. Sample tubes were capped with Teflon™ sheeting and plastic caps, labeled, and submitted for laboratory analysis. The soil sampling equipment was decontaminated by steam-cleaning before and between each sampling event.

In borings TR-25, TR-29, TR-30, and TR-31 one-inch PVC temporary wells were installed to assist in groundwater collection. Grab groundwater samples were collected with dedicated disposable bailers and placed in Volatile Organic Analysis (VOA) bottles, containing hydrochloric acid as a preservative, or one-liter Amber bottles, depending on the required analyses. All analytical samples were placed in an iced-filled cooler and transported via courier using standard chain-of-custody protocol to Curtis & Tompkins, Ltd., a California-certified analytical laboratory in Berkeley, California for laboratory analysis.

After sampling was completed, the temporary PVC well casings were removed and all borings were grouted in accordance with permit specifications. Drill cuttings were drummed and properly disposed by Precision Sampling Inc.

4.0 SUBSURFACE CONDITIONS

The results of our investigation indicate the asphalt paved portions of the site are blanketed by approximately 3 to 6 inches of asphalt over aggregate base. The aggregate base is generally underlain by clays and clayey sands. Fine to course sands were encountered at shallow intervals up to 3 feet bgs. Clay observed from the surface to 13 feet bgs apparently becomes stiffer (based on visual observations) with increasing depth. Hydrocarbon odors were noted in soil from borings TR-20, TR-25, TR-28, TR-30, and TR-31.

Groundwater was measured at between 9 and 10 feet bgs in boring TR-31. This approximate groundwater depth may not represent a stabilized level, as the actual groundwater level in a test boring can take from several hours to days to stabilize.

5.0 LABORATORY ANALYSES AND RESULTS

Soil and groundwater samples collected in the field were analyzed to evaluate the presence of contaminants in the subsurface materials at the site resulting from releases from the recognized environmental conditions noted above. Samples were analyzed by Curtis & Tompkins of Berkeley, California. The analytical results are summarized on Tables 1 and 2. The complete laboratory reports and chain of custody forms are enclosed in Appendix B.

5.1 Laboratory Analyses

To investigate possible contamination of site soil and groundwater from potential sources of contaminants, Treadwell & Rollo advanced nine shallow borings to depths ranging between 6.5 to 13 feet across the site. The deeper borings (TR-25, TR-29, TR-30, and TR-31) were advanced to groundwater, which was encountered at a depth of approximately 9 to 10 feet.

Soil and groundwater samples were collected from selected depths within each boring and analytical testing was performed on the collected samples. Selected samples were analyzed for:

- Total Extractable Petroleum Hydrocarbons (TEPH), which includes diesel fuel and motor oil by EPA Method 8015M
- Total Petroleum Hydrocarbons quantified as Gasoline (TPH-G) by EPA Method 8015M
- benzene, toluene, ethylbenzene and total xylenes (BTEX) by EPA Method 8260B
- volatile organic compounds (VOCs) by EPA Method 8260B
- polychlorinated biphenyls (PCBs) by EPA Method 8082
- total lead (Pb) by EPA Method 6010B.

5.2 Evaluation Criteria

Analytical results for soil samples are presented in Table 1. Results for groundwater samples are presented in Table 2. Because the redevelopment plans may include either residential or commercial use, the analytical data were compared to established screening levels for residential properties because these criteria are typically more conservative.

Soil sample results were also compared to threshold concentrations to evaluate whether the soil may safely be left onsite or, if disposed off-site, whether it would constitute a hazardous waste. Regarding soil which may remain on site, no absolute standards for acceptable levels of contamination yet exist. However, the California Regional Water Quality Control Board (RWQCB) has developed Environmental Screening Levels (ESLs). The ESLs discussed in this report are threshold surface soil concentrations considered safe for residential site use where groundwater is not a drinking water source, unless otherwise noted. If a concentration for a particular compound exceeds the residential surface soil ESL for said compound, it is assumed that the concentration will also exceed all other ESLs for that compound, as the residential surface soil ESL is the most conservative.

For evaluating disposal requirements, if development plans require the soil to be excavated and disposed off site, results are compared to regulatory criteria that define waste as hazardous (Class I) or non-hazardous (Class II or III) waste. These criteria include the California Soluble

Threshold Limit Concentration (STLC) and Total Threshold Limit Concentration (TTLC), and the Federal Regulatory Level (RL), as set forth in Title 22 of the California Code of Regulations (CCR). The TTLC specifies in milligrams per kilogram (mg/kg) the total amount of a substance in soil that will require the soil to be disposed as a California hazardous waste. The STLC specifies in milligrams per liter (mg/l) the concentration of the soluble fraction of a substance in soil, as determined by the California Waste Extraction Test (WET), which will require the soil to be disposed as a California hazardous waste. Generally, when the total concentration of a substance is an order of magnitude (10 times) greater in mg/kg than the STLC in mg/l, the soil should be tested for that substance using the WET, although the total concentration may be less than the TTLC. Thus, a soil may qualify as a California hazardous waste when the soluble fraction of a contaminant exceeds the STLC and the total concentration of the contaminant is less than the TTLC.

The RL specifies in mg/l the concentration of the soluble fraction of a substance in soil, as determined by the Toxicity Characteristic Leaching Procedure (TCLP), that will require the soil be disposed as a Federal, or Resource Conservation and Recovery Act (RCRA), hazardous waste. In general, if the total concentration of a substance in soil exceeds 20 times the RL, the soil should be tested for the soluble fraction of the substance using the TCLP, which will then be compared directly to the RL.

5.3 Soil Analytical Results

TPH-D was detected in 17 of 18 soil samples analyzed. TPH-D concentrations in the samples ranged from less than 1.0 milligrams per kilogram (mg/kg) in TR-19 (at 6.0 feet bgs) to a maximum of 1,100 mg/kg in TR-31 (at 2.5 feet bgs). All detections of TPH-D were reported with one or more laboratory analytical qualifiers. Three laboratory qualifiers for TPH-D were reported, indicating individual samples may exhibit a chromatographic pattern which does not resemble the laboratory standard for diesel fuel, lighter hydrocarbons may have contributed to the analytical concentration, or heavier hydrocarbons may have contributed to the analytical

concentration. In one sample, TR-31 (at 2.5 feet bgs), the TPH-D concentration exceeds the residential surface soil ESL for TPH-D of 500 mg/kg.

TPH-MO was detected in 14 of 18 soil samples analyzed. TPH-MO concentrations in the samples ranged from less than 5.0 mg/kg in several samples to a maximum of 2,700 mg/kg in TR-31 (at 2.5 feet bgs). Several detections of TPH-MO were reported with one or more laboratory qualifiers. Two laboratory qualifiers for TPH-MO were reported, indicating that lighter or heavier hydrocarbons may have contributed to the analytical concentration. In four samples, TR-19 (at 2.5 feet bgs), TR-29 (at 2.0 feet bgs), TR-30 (at 2.0 feet bgs), and TR-31 (at 2.5 feet bgs), the TPH-MO concentrations exceed the residential surface soil ESL for TPH-MO of 500 mg/kg.

TPH-G was detected in seven of 18 soil samples analyzed. TPH-G concentrations in the samples ranged from less than 1.0 mg/kg in several samples to a maximum of 2,100 mg/kg in TR-25 (at 6.0 feet bgs). Several detections of TPH-G were reported with a laboratory qualifier indicating the sample exhibits chromatographic pattern which does not resemble the laboratory standard. In three samples, TR-20 (at 6.0 feet bgs), TR-25 (at 6.0 feet bgs), and TR-28 (at 6.0 feet bgs), the TPH-G concentrations exceed the residential surface soil ESL for TPH-~~D~~_G of 100 mg/kg.

Total lead was detected in all four soil samples analyzed. Total lead concentrations in the samples ranged from 5.6 mg/kg in TR-28 (at 2.0 feet bgs) to a maximum of 14 mg/kg in TR-25 (at 2.0 feet bgs). No total lead concentrations exceed the residential surface soil ESL for lead of 200 mg/kg. No total lead concentrations were greater than ten times the STLC for lead, therefore no soluble lead tests were performed.

PCBs were detected in one soil sample analyzed. Aroclor-1260 was detected in soil sample TR-25 (at 2.0 feet bgs) at a concentration of 11 micrograms per kilogram (ug/kg). This concentration is below the residential surface soil ESL for PCBs of 220 ug/kg.

5.4 Groundwater Results

Groundwater was measured in one boring (TR-31) at 9.88 feet bgs. TPH-D was detected in three of four groundwater samples analyzed. TPH-D concentrations ranged from 270 micrograms per liter (ug/l) in TR-31 (GW) to 640 ug/l in TR-30 (GW). All TPH-D detections had laboratory qualifiers indicating that both lighter and heavier hydrocarbons contributed to the total analytical concentration. In one sample, TR-30 (GW), the TPH-D concentration was equal to, but did not exceed the residential groundwater ESL for TPH-D of 640 ug/l.

TPH-MO was also detected in three of four samples analyzed. TPH-MO concentrations ranged from 340 ug/l in TR-29 to a maximum of 1,500 ug/l in TR-31. The TPH-MO detection in TR-29 had a laboratory qualifier indicating that lighter hydrocarbons contributed to the total analytical concentration. In two of the samples, TR-30 (GW) and TR-31 (GW), the TPH-MO concentrations exceed the residential groundwater ESL for TPH-MO of 640 ug/l.

TPH-G was detected in one groundwater sample analyzed. TPH-G was detected in TR-25 (GW) at a concentration of 150,000 ug/l. This concentration is in excess of the residential groundwater ESL of 500 ug/l, and may suggest the presence of free-phase hydrocarbons in the subsurface.

Benzene was detected in one groundwater sample analyzed (TR-25 (GW)) at a concentration of 2,500 ug/l. This concentration exceeds the residential groundwater ESL for Benzene of 46 ug/l.

Toluene was detected in three of four samples analyzed. Toluene concentrations ranged from 0.56 ug/l in TR-29 (GW) to a maximum of 0.85 ug/l in TR-30 (GW). All Toluene concentrations were below the residential groundwater ESL of 130 ug/l.

Ethylbenzene was detected in one sample analyzed (TR-25 (GW)) at a concentration of 3,600 ug/l. This concentration exceeds the residential groundwater ESL for Ethylbenzene of 290 ug/l.

Xylenes were detected in all four samples analyzed. In sample TR-25 (GW), total xylenes were detected at a concentration of 1,720 ug/l. In the remaining three samples, m,p-xylenes were detected at concentrations ranging from 0.57 ug/l in TR-31 (GW) to 0.85 ug/l in TR-30 (GW). In one sample, TR-25 (GW), the total xylenes concentration exceeds the residential groundwater ESL for total xylenes of 13 ug/l.

6.0 CONCLUSIONS

We have completed a Phase II Environmental Site Assessment for the site located 5885 Hollis Street in Emeryville, California. The project site is approximately 220 feet by 550 feet in plan dimension and is bounded by Hollis Street to the east, 59th Street to the north, Peladeau Street to the west, and a Chevron Service Station and Powell Street to the south (Figure 2). The site is currently occupied with four buildings: a one-story concrete building that occupies 5805 through 5885 Hollis Street, a one-story concrete building that occupies 5810 through 5890 Peladeau Street, and two one-story metal-framed buildings that occupy 5805 Hollis Street. The remaining area is asphalt-paved parking.

The results of the Phase II soil and groundwater sampling event (January 2005) are summarized below:

- TPH-D was detected in 17 of 18 soil samples analyzed and three of four groundwater samples analyzed. In TR-31-2.5, the TPH-D concentration exceeds the residential surface soil ESL for TPH-D. TPH-D concentrations in one groundwater sample were equal to, but did not exceed the residential groundwater ESL.
- TPH-MO was detected in 14 of 18 soil samples analyzed and three of four groundwater samples tested. In four soil samples, TR-19-2.5, TR-29-2.0, TR-30-2.0, and TR-31-2.5, TPH-MO concentrations exceed the residential surface soil ESL for TPH-MO. In two groundwater samples, TR-30 (GW) and TR-31 (GW), TPH-MO concentrations exceed the residential groundwater ESL for TPH-MO.

- TPH-G was detected in 7 of 18 soil samples analyzed and one of four groundwater samples analyzed. In three soil samples, TR-20-6.0, TR-25-6.0, and TR-28-6.0, TPH-G concentrations exceed the residential surface soil ESL for TPH-G. In TR-25 (GW), the TPH-G concentration exceeds the residential groundwater ESL and may suggest the presence of free-phase hydrocarbons in the subsurface in the vicinity of boring TR-25.
- Benzene was detected in one groundwater sample, TR-25 (GW), which exceeds the residential groundwater ESL for benzene.
- Toluene was detected in three of four samples analyzed. No concentrations exceed the residential groundwater ESL for toluene.
- Xylenes were detected in all four samples analyzed. In one groundwater sample, TR-25 (GW), the analytical concentration exceeds the residential ESL for xylenes.
- Total lead was detected in all four samples tested. No detected concentration exceeds the residential surface soil ESL for total lead. No total lead concentration was greater than ten times the STLC for soluble lead.

Based on these findings, Treadwell & Rollo makes the following recommendations:

- Surface soil exceeding the ESLs for residential property use may require mitigation if the future site use includes residential development. If the future development is primarily commercial use, the soil and groundwater data collected for this investigation should be reviewed to evaluate whether mitigation is appropriate.
- A Soil Management Plan (SMP) may need to be prepared to describe soil handling and disposal procedures during construction to protect worker and public safety.
- The relatively high concentration of benzene in the groundwater at one location (TR-25) may require mitigation to control vapors emanating from the groundwater surface. Additional investigation may be required to define the lateral extent of benzene concentrations in groundwater.

7.0 LIMITATIONS

Treadwell & Rollo performed this assessment in accordance with our proposal to Wareham Development., dated 30 December 2004. The screening level approach to site evaluation utilized in this investigation has inherent limitations. For example, the distribution of chemical concentrations in the soil can vary spatially and over time. The chemical analysis results, valid as of the time of collection, are based on data collected at the sample locations only.

All conclusions and recommendations in this report concerning the subject property are the professional opinions of the Treadwell & Rollo, Inc., personnel involved with the project, and this report should not be considered a legal interpretation of existing environmental regulations. Opinions presented herein apply to site conditions existing at the time of our assessment, and cannot necessarily be taken to apply to site changes or conditions of which we are not aware and have not had the opportunity to evaluate.

REFERENCES

California Code of Regulations, Title 22, Section 66261.24: *Characteristic of Toxicity.*

California Regional Water Quality Control Board, 2003: *Screening for Environmental Concerns At Sites With Contaminated Soil and Groundwater, Interim Final – July 2003(Updated 2004)*, July 2003.

Treadwell & Rollo, Inc., 2000: *Environmental Site Characterization, 5885 Hollis Street, Emeryville, California*, dated 12 May 2000.

Weiss Associates, 1995: *Environmental Site Assessment of Emeryville Industrial Court, Emeryville, California*, dated 14 March 1995.

Table 1
Chemical Compounds in Soil Samples

Emeryville Industrial Court
 5885 Hollis Street
 Emeryville, California

Sample ID	Sample Date	TPH-D mg/kg	TPH-MO mg/kg	TPH-G mg/kg	Aroclor-1260 ug/kg	Other PCBs ug/kg	Lead mg/kg
TR-19-2.5'	1/20/05	97 H Y	910	< 1.0	NA	NA	NA
TR-19-6.0'	1/20/05	< 1.0	< 5.0	< 1.1	NA	NA	NA
TR-20-2.0'	1/20/05	65 L Y	26 H	15	NA	NA	NA
TR-20-6.0'	1/20/05	320 L	22 L	500 Y	NA	NA	NA
TR-21-2.0'	1/20/05	1.7 H Y	< 5.0	< 1.0	NA	NA	NA
TR-21-6.0'	1/20/05	69 HL	42 L	19	NA	NA	NA
TR-22-2.0'	1/20/05	5.5 H Y	32	< 1.0	NA	NA	NA
TR-22-6.0'	1/20/05	8.5 H Y	10 HL	1.7 L Y	NA	NA	NA
TR-25-2.0'	1/20/05	11 H Y	62	< 1.1	11	ND	14
TR-25-6.0'	1/20/05	44 H L Y	16	2,100 Y	NA	NA	NA
TR-28-2.0'	1/20/05	4.3 H Y	54	< 0.93	< 9.6	ND	5.6
TR-28-6.0'	1/20/05	140 H L Y	280	160 Y	NA	NA	NA
TR-29-2.0'	1/20/05	160 H Y	1,600	< 1.0	NA	NA	9.2
TR-29-6.0'	1/20/05	2.8 H Y	6.6 L	< 1.1	NA	NA	NA
TR-30-2.0'	1/20/05	65 H Y	510	< 1.1	NA	NA	11
TR-30-6.0'	1/20/05	63 L	< 5.0	2.8 H Y	NA	NA	NA
TR-31-2.5'	1/20/05	1,100 H L Y	2,700	< 1.0	NA	NA	NA
TR-31-6.0'	1/20/05	3.1 H L Y	< 5.0	< 1.1	NA	NA	NA

Results presented in units indicated at top of table, mg/kg = milligrams per kilogram (parts per million),
 ug/kg = micrograms per kilogram (parts per billion)

TPH-G = Total Petroleum Hydrocarbons quantified as gasoline

TPH-D = Total Petroleum Hydrocarbons quantified as diesel fuel

TPH-MO = Total Petroleum Hydrocarbons quantified as motor oil

PCBs = Polychlorinated Biphenyls

ND = Not detected at or greater than laboratory detection limit which varies, see laboratory report

< 1 = indicates not detected at the indicated laboratory detection limit

Y = Laboratory flag indicating sample exhibits chromatographic pattern which does not resemble standard

H = Laboratory flag indicating heavier hydrocarbons contributed to quantitation

L = Laboratory flag indicating lighter hydrocarbons contributed to quantitation

NA = not analyzed

Table 2
Organic Compounds in Groundwater Samples
 Emeryville Industrial Court
 5885 Hollis Street
 Emeryville, California

Sample ID	Sample Date	TPH-D ug/l	TPH-MO ug/l	TPH-G ug/l	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	m,p-Xylene ug/l	o-Xylene ug/l	Other VOCs ug/l
TR-25 (GW)	1/20/05	NA	NA	150,000 Y	2,500	< 10	3,600	1,100	620	NA
TR-29 (GW)	1/20/05	280 H Y	340 L	< 50	< 0.5	0.61 C	< 0.5	0.60 C	< 0.5	NA
TR-30 (GW)	1/20/05	640 H Y	960	< 50	< 0.5	0.85 C	< 0.5	0.85 C	< 0.5	NA
TR-31 (GW)	1/20/05	270 H Y	1,500	< 50	< 0.5	0.56 C	< 0.5	0.57 C	< 0.5	ND

Results presented in units indicated at top of table.

ug/l = micrograms per liter (parts per billion)

TPH-G = Total Petroleum Hydrocarbons quantified as gasoline

TPH-D = Total Petroleum Hydrocarbons quantified as diesel fuel

TPH-MO = Total Petroleum Hydrocarbons quantified as motor oil

VOCs = Volatile Organic Compounds (see laboratory data sheets for complete list of VOCs analyzed)

< 1 = indicates not detected at the indicated laboratory detection limit

ND = Not detected at or greater than the laboratory detection limit which varies, see laboratory report

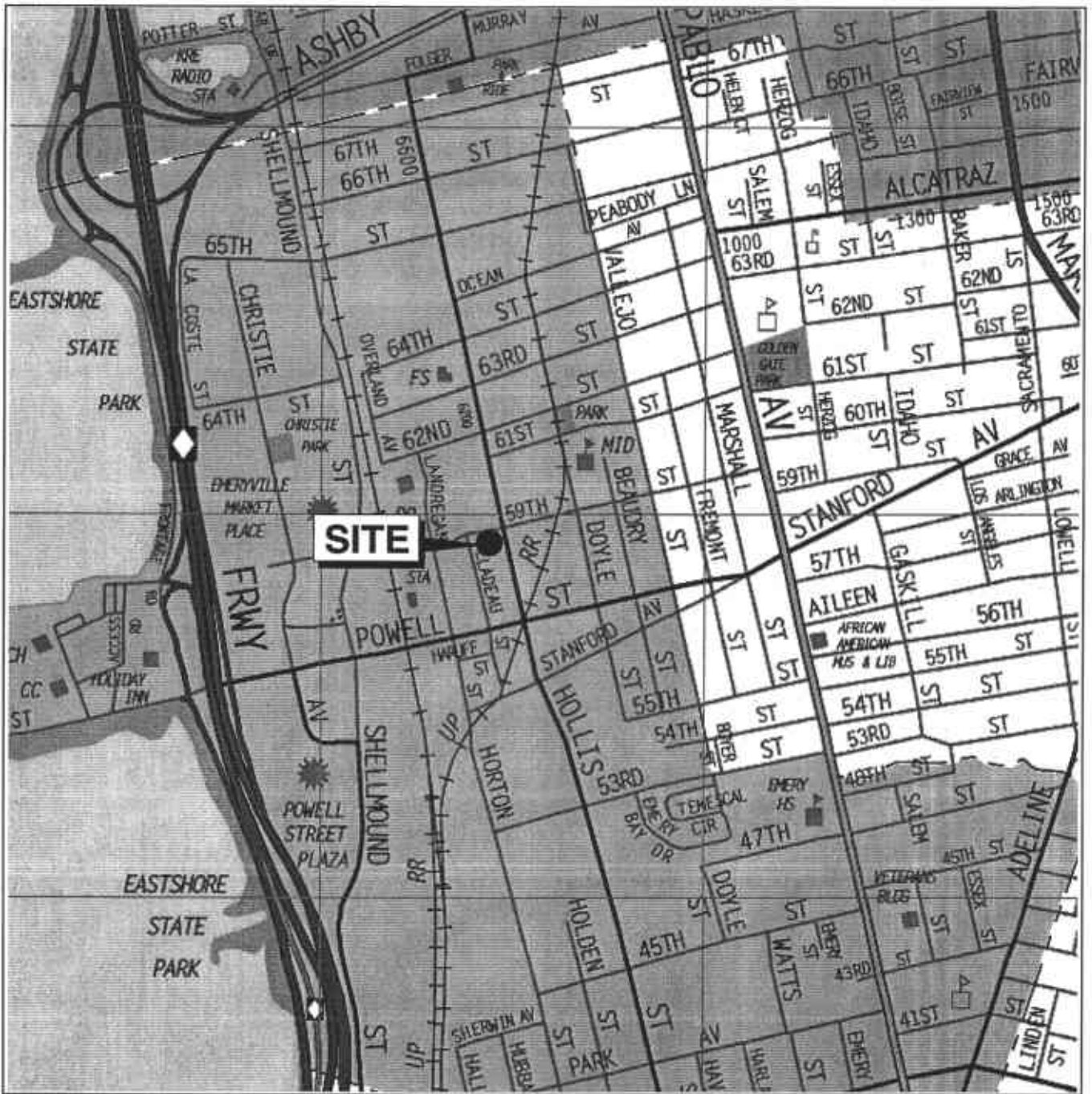
C = Presence confirmed, but RPD (Relative Percent Difference) between columns exceeds 40%

Y = Laboratory flag indicating sample exhibits chromatographic pattern which does not resemble standard

H = Laboratory flag indicating heavier hydrocarbons contributed to quantitation

L = Laboratory flag indicating lighter hydrocarbons contributed to quantitation

NA = not analyzed



Base map: The Thomas Guide
Alameda County
1999



No scale

EMERYVILLE INDUSTRIAL COURT
Emeryville, California

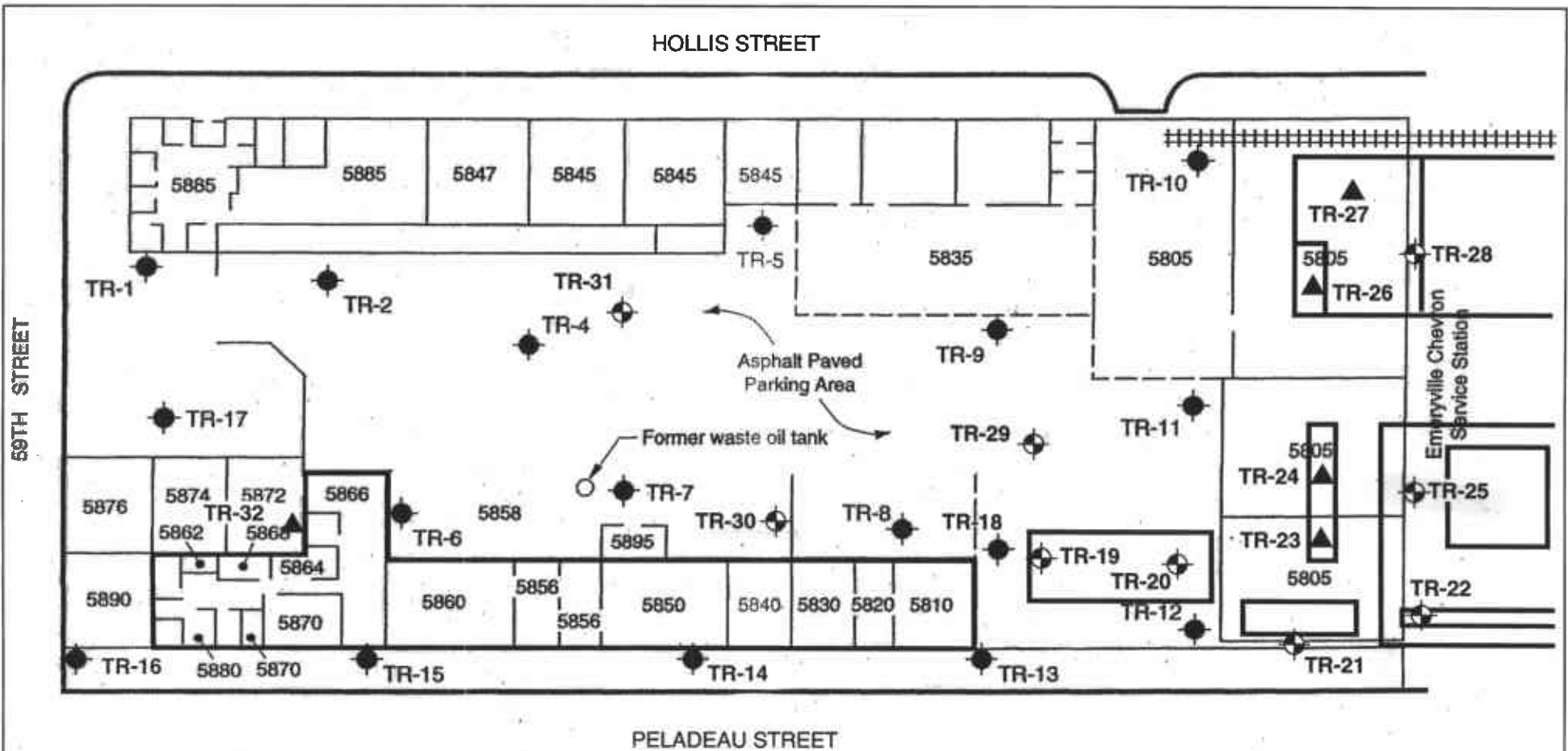
SITE LOCATION MAP

Treadwell&Rollo

Date 02/15/05

Project No. 4069.01

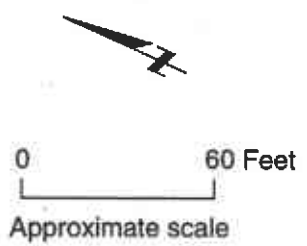
Figure 1



EXPLANATION

- TR-31** Approximate location of current exploratory boring by Treadwell & Rollo, Inc., (January 2005)
- TR-1** Approximate location of previous exploratory boring by Treadwell & Rollo, Inc.
- TR-23** Proposed sampling locations that could not be accessed because of current buildings

Bold lines indicate former facility locations



EMERYVILLE INDUSTRIAL COURT
5885 HOLLIS STREET
 Emeryville, California

SITE PLAN

Date 03/03/05 | Project No. 4069.01 | Figure 2

Treadwell & Rollo

PROJECT: **EMERYVILLE INDUSTRIAL COURT**
5885 HOLLIS STREET
 Emeryville, California

Log of Boring TR-19

Boring location: See Site Plan, Figure 2

Logged by: E. Deratzian
 Drilled By: Precision Sampling Inc.

Date started: 1/20/05

Date finished: 1/20/05

Drilling method: Direct Push

Hammer weight/drop: --

Hammer type: --

Sampler: Continuous Core

DEPTH (feet)	SAMPLES				CVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (inches)			
1							ASPHALT NO RECOVERY
2							
3	TR-19-2.5					SW	SAND with CLAY (SW) yellow-brown, medium dense, moist, subrounded, well graded, no odor, 90 percent fine to coarse sand, 10 percent fines
4						CL	CLAY (CL) green-gray, medium stiff, moist, very plastic, no odor, 5 percent fine sand, 95 percent fines
5						CL	SILTY CLAY with GRAVEL (CL) green-gray with orange mottling, stiff, moist, plastic, no odor, 10 percent gravel, 5 percent fine sand, 85 percent fines
6	TR-19-6.0						
7							
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TEST ENVIRONMENTAL_406901.GPJ T&R GDT 3/3/05

Boring terminated at 7 feet below ground surface.
 Boring backfilled with cement grout. Groundwater was not encountered during drilling.
 Soil properties based on visual observations only.

Treadwell&Rollo

Project No.: 4069.01	Figure: A-1
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PROJECT: **EMERYVILLE INDUSTRIAL COURT**
5885 HOLLIS STREET
 Emeryville, California

Log of Boring TR-20

Boring location: See Site Plan, Figure 2

Logged by: E. Morita
 Drilled By: Precision Sampling Inc.

Date started: 1/20/05

Date finished: 1/20/05

Drilling method: Direct Push

Hammer weight/drop: --

Hammer type: --

Sampler: Continuous Core

DEPTH (feet)	SAMPLES				CYM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (inches)			
1		•					ASPHALT CONCRETE SLAB
2	TR-20-2.0	[Sample]				SP	SAND (SP) gray, medium dense, moist, subrounded, moderately graded, no odor, 85 percent fine to medium sand, 15 percent fines
3						CL	CLAY (CL) brown, stiff, moist, very plastic, weak hydrocarbon odor from 2.0 to 4.0 feet, 10 percent fine sand, 90 percent fines
4						CL	strong hydrocarbon odor from 4 to 7 feet
6	TR-20-6.0	[Sample]				CL	CLAY (CL) green-gray, stiff, moist, very plastic, strong hydrocarbon odor, 5 percent fine sand, 95 percent fines
7							
8							
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TEST ENVIRONMENTAL_406901.GPJ T&R.GDT 3/3/05

Boring terminated at 7 feet below ground surface.
 Boring backfilled with cement grout. Groundwater was not encountered during drilling.
 Soil properties based on visual observations only.

Treadwell & Rollo

Project No.: 4069.01 Figure: A-2

PROJECT: **EMERYVILLE INDUSTRIAL COURT**
5885 HOLLIS STREET
 Emeryville, California

Log of Boring TR-21

Boring location: See Site Plan, Figure 2

Logged by: E. Morita
 Drilled By: Precision Sampling Inc.

Date started: 1/20/05

Date finished: 1/20/05

Drilling method: Direct Push

Hammer weight/drop: --

Hammer type: --

Sampler: Continuous Core

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (inches)			
1						SM	SILTY SAND (SM)
2	TR-21-2.0					ML	medium brown, loose, moist, subangular, slightly plastic, poorly graded, no odor, 90 percent sand, 10 percent fines
3						CL	SANDY SILT (ML)
4						ML	gray-black, very soft, moist, slightly plastic, poorly graded, no odor, 70 percent sand, 30 percent fines
5						CL	GRAVELLY CLAY (CL)
6	TR-21-6.0					CL	black, medium stiff, wet, plastic, poorly graded, no odor, 15 percent gravel, 5 percent fine sand, 80 percent fines
7							SANDY SILT (ML)
8							light brown, soft, moist, subangular, slightly plastic, moderately graded, no odor, 25 percent sand, 75 percent fines
9							SILTY CLAY (CL)
10							light brown, soft to medium stiff, moist, subrounded, plastic, no odor, 10 percent sand, 90 percent fines
11							
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TEST ENVIRONMENTAL_406901.GPJ T&R.GDT 3/3/05

Boring terminated at 6.5 feet below ground surface.
 Boring backfilled with cement grout. Groundwater was not encountered during drilling.
 Soil properties based on visual observations only.

Treadwell&Rollo

Project No.: 4069.01	Figure: A-3
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PROJECT: **EMERYVILLE INDUSTRIAL COURT**
5885 HOLLIS STREET
 Emeryville, California

Log of Boring TR-22

Boring location: See Site Plan, Figure 2

Logged by: E. Morita
 Drilled By: Precision Sampling Inc.

Date started: 1/20/05

Date finished: 1/20/05

Drilling method: Hand Auger

Hammer weight/drop: -

Hammer type: -

Sampler: 2x6 Stainless Steel Sampling Tube

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (inches)			
1						CL	ASPHALT CLAY with SAND (CL) dark brown, moist, subangular, slightly plastic, no odor, 25 percent fine sand, 75 percent fines
2	TR-22-2.0						
3							Concrete slab from 2.5 feet to 2.8 feet
4						CL	CLAY with SILT and some GRAVEL (CL) yellow-brown, medium stiff, moist, plastic, moderately graded, no odor, 15 percent gravel, 5 percent sand, 80 percent fines
5							
6	TR-22-6.0						
7							
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Boring terminated at 6.5 feet below ground surface.
 Boring backfilled with cement grout. Groundwater was not encountered during drilling.
 Soil properties based on visual observations only.

Treadwell & Rollo
 Project No.: 4069.01 Figure: A-4

TEST ENVIRONMENTAL 406901.GPJ T&R.GDT 3/2/05

PROJECT: **EMERYVILLE INDUSTRIAL COURT**
5885 HOLLIS STREET
 Emeryville, California

Log of Boring TR-25

Boring location: See Site Plan, Figure 2

Logged by: E. Morita
 Drilled By: Precision Sampling Inc.

Date started: 1/20/05

Date finished: 1/20/05

Drilling method: Hand Auger

Hammer weight/drop: --

Hammer type: --

Sampler: 2x6 Stainless Steel Sampling Tube

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (inches)			
1		•					ASPHALT
2	TR-25-2.0					CL	SANDY CLAY with GRAVEL (CL) dark brown-black, soft, moist, subrounded, slightly plastic, moderately graded, no odor, 10 percent gravel, 25 percent sand, 65 percent fines
3							
4						CL	
5						CL	CLAY with SAND (CL) olive green mottled with tan, medium stiff, moist, slightly plastic, moderately graded, medium hydrocarbon odor, 10 percent gravel, 15 percent fine sand, 75 percent fines
6	TR-25-6.0					CL	CLAY with SAND (CL) olive, medium stiff, moist, slightly plastic, poorly graded, strong hydrocarbon odor, 10 percent fine sand, 90 percent fines
7							
8						CL	CLAY with GRAVEL (CL) olive mottled with light brown, stiff, moist to wet, subangular, plastic, poorly graded, weak hydrocarbon odor, 15 percent gravel, 5 percent fine sand, 80 percent fines, angular chert fragments throughout, slight sheen observed on groundwater sample
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10							
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Boring terminated at 9.0 feet below ground surface.
 Boring backfilled with cement grout.
 Soil properties based on visual observations only.

Treadwell & Rollo

Project No.: 4069.01

Figure:

A-5

PROJECT:

EMERYVILLE INDUSTRIAL COURT
5885 HOLLIS STREET
 Emeryville, California

Log of Boring TR-28

Boring location: See Site Plan, Figure 2

Logged by: E. Morita
 Drilled By: Precision Sampling Inc.

Date started: 1/20/05

Date finished: 1/20/05

Drilling method: Hand Auger

Hammer weight/drop: --

Hammer type: --

Sampler: 2x6 Stainless Steel Sampling Tube

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (inches)			
1							ASPHALT
2	TR-28-2.0					CL	CLAY with SAND (CL) gray to black, soft, wet, plastic, no odor, 10 percent medium sand, 90 percent fines
3							
4						CL	CLAY with GRAVEL (CL) yellow-brown, subangular, slightly plastic, moist, weak hydrocarbon odor, 12 percent gravel, 10 percent medium sand, 78 percent fines
5							
6	TR-28-6.0					CL	CLAY (CL) olive, plastic, moist, medium to strong hydrocarbon odor, 20 percent medium sand, 80 percent fines
7							
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TEST ENVIRONMENTAL 406901.GPJ T&R.GDT 3/2/05

Boring terminated at 6.5 feet below ground surface.
 Boring backfilled with cement grout. Groundwater was not encountered during drilling.
 Soil properties based on visual observations only.

Treadwell & Rollo

Project No.: 4069.01

Figure:

A-6

PROJECT: **EMERYVILLE INDUSTRIAL COURT**
5885 HOLLIS STREET
 Emeryville, California

Log of Boring TR-29

Boring location: See Site Plan, Figure 2

Logged by: E. Deratzian
 Drilled By: Precision Sampling Inc.

Date started: 1/20/05

Date finished: 1/20/05

Drilling method: Direct Push

Hammer weight/drop: --

Hammer type: --

Sampler: Continuous Core

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (inches)			
1							ASPHALT
2	TR-29-2.0					SP	SAND with GRAVEL (SP) brown, loose, moist, subrounded, moderately graded, no odor, 10 percent gravel, 85 percent fine to medium sand, 5 percent fines
3						CL	CLAY with SILT (CL) black, medium stiff, moist, non-plastic, no odor, 10 percent fine sand, 90 percent fines
4							CLAY with GRAVEL (CL) orange-brown, medium stiff, moist, subrounded to subangular, slightly plastic, no odor, 15 percent gravel, 5 percent fine to medium sand, 80 percent fines, angular chert fragments throughout
6	TR-29-6.0						
7							
8						CL	
9							
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TEST ENVIRONMENTAL 406901.GPJ T&R.GDT 3/3/05

Boring terminated at 13.0 feet below ground surface.
 Boring backfilled with cement grout.
 Soil properties based on visual observations only.

Treadwell & Rollo

Project No.: 4069.01 Figure: A-7

PROJECT: EMERYVILLE INDUSTRIAL COURT
5885 HOLLIS STREET
Emeryville, California

Log of Boring TR-30

Boring location: See Site Plan, Figure 2

Logged by: E. Deratzian
Drilled By: Precision Sampling Inc.

Date started: 1/20/05

Date finished: 1/20/05

Drilling method: Direct Push

Hammer weight/drop: --

Hammer type: --

Sampler: Continuous Core

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (inches)			
1						SW	ASPHALT
2	TR-30-2.0					CL	GRAVELLY SAND (SW) brown, loose, moist, subrounded to subangular, well graded, no odor, 20 percent gravel, 75 percent fine to coarse sand, 5 percent fines
3						CL	CLAY with SILT (CL) black, medium stiff, moist, non-plastic, no odor, 10 percent fine sand, 90 percent fines
4						CL	CLAY with GRAVEL (CL) orange-brown, stiff, moist, subrounded to subangular, plastic, no odor, 15 percent gravel, 5 percent fine to medium sand, 80 percent fines, angular chert throughout
6	TR-30-6.0					CL	CLAY (CL) gray, stiff, moist, weak hydrocarbon odor starting at 5.5 feet, 5 percent fine sand, 95 percent fines
10						CL	CLAY with GRAVEL (CL) brown with gray mottling, stiff, moist, subrounded to subangular, slightly plastic, weak hydrocarbon odor to 11 feet, 10 percent gravel, 5 percent fine sand, 85 percent fines
13							
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29							
30							

Boring terminated at 13.0 feet below ground surface.
Boring backfilled with cement grout.
Soil properties based on visual observations only.

Treadwell & Rollo

Project No.: 4069.01

Figure: A-8

TEST ENVIRONMENTAL 406901 GPJ T&R GDT 3/2/05

PROJECT: EMERYVILLE INDUSTRIAL COURT
5885 HOLLIS STREET
Emeryville, California

Log of Boring TR-31

Boring location: See Site Plan, Figure 2

Logged by: E. Deratzian
Drilled By: Precision Sampling Inc.

Date started: 1/20/05

Date finished: 1/20/05

Drilling method: Direct Push

Hammer weight/drop: --

Hammer type: --

Sampler: Continuous Core

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (inches)			
1							ASPHALT NO RECOVERY
2							
3	TR-31-2.5					SW	SAND with GRAVEL (SW) brown, loose, moist, subrounded to subangular, well graded, 15 percent gravel, 80 percent fine to coarse sand, 5 percent fines
4						CL	CLAY with SILT (CL) black, stiff, moist, non-plastic, strong hydrocarbon odor, 10 percent fine sand, 90 percent fines
5							
6	TR-31-8.0					CL	NO RECOVERY
7							CLAY with SILT (CL) yellow-brown with orange mottling, medium stiff, moist, very plastic, no odor, 10 percent fine sand, 90 percent fines
8						CL	CLAY with GRAVEL (CL) olive-brown with orange mottling, medium stiff, moist, plastic, no odor, 10 percent gravel, 5 percent fine sand, 85 percent fines
9							
10							
11						CL	CLAY (CL) yellow-brown with gray mottling, medium stiff, moist, slightly plastic, no odor, 10 percent fine sand, 90 percent fines
12							
13							
14							
15							
16							
17							
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Boring terminated at 13.0 feet below ground surface.
Boring backfilled with cement grout. Groundwater was encountered at a depth of 9.88 feet during drilling.
Soil properties based on visual observations only.

Treadwell & Rollo

Project No.: 4069.01

Figure: A-9

TEST ENVIRONMENTAL 405901.GPJ T&R GDT 3/3/05









UNIFIED SOIL CLASSIFICATION SYSTEM



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

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 coarse fine	3" to No. 4	76.2 to 4.76
	3" to 3/4" 3/4" to No. 4	76.2 to 19.1 19.1 to 4.76
Sand coarse medium fine	No. 4 to No. 200	4.76 to 0.074
	No. 4 to No. 10	4.76 to 2.00
	No. 10 to No. 40 No. 40 to No. 200	2.00 to 0.420 0.420 to 0.074
Silt and Clay	Below No. 200	Below 0.074

SAMPLE DESIGNATIONS/SYMBOLS

	Sample taken with split-barrel sampler other than Standard Penetration Test sampler. 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

	Unstabilized groundwater level
	Stabilized groundwater level

SAMPLER TYPE

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

Treadwell&Roll

CLASSIFICATION CHART

Date 02/15/05	Project No. 4069.01	Figure A-10
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Curtis & Tompkins Laboratories Analytical Report

Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	4069.01		
Matrix:	Water	Sampled:	01/20/05
Units:	ug/L	Received:	01/20/05
Batch#:	98469		

Field ID: TR-29(GW) Diln Fac: 1.000
 Type: SAMPLE Analyzed: 01/20/05
 Lab ID: 177265-013

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
Benzene	ND	0.50	EPA 8021B
Toluene	0.61 C	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	0.60 C	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	116	70-141	EPA 8015B
Bromofluorobenzene (FID)	120	80-143	EPA 8015B
Trifluorotoluene (PID)	97	59-133	EPA 8021B
Bromofluorobenzene (PID)	103	76-128	EPA 8021B

Field ID: TR-30(GW) Diln Fac: 1.000
 Type: SAMPLE Analyzed: 01/20/05
 Lab ID: 177265-014

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
Benzene	ND	0.50	EPA 8021B
Toluene	0.85 C	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	0.85 C	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	115	70-141	EPA 8015B
Bromofluorobenzene (FID)	121	80-143	EPA 8015B
Trifluorotoluene (PID)	93	59-133	EPA 8021B
Bromofluorobenzene (PID)	102	76-128	EPA 8021B

*= Value outside of QC limits; see narrative
 C= Presence confirmed, but RPD between columns exceeds 40%
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit
 >LR= Response exceeds instrument's linear range

Curtis & Tompkins Laboratories Analytical Report

Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	4069.01		
Matrix:	Water	Sampled:	01/20/05
Units:	ug/L	Received:	01/20/05
Batch#:	98469		

Field ID: TR-31(GW) Diln Fac: 1.000
 Type: SAMPLE Analyzed: 01/21/05
 Lab ID: 177265-015

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
Benzene	ND	0.50	EPA 8021B
Toluene	0.56 C	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	0.57 C	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	117	70-141	EPA 8015B
Bromofluorobenzene (FID)	123	80-143	EPA 8015B
Trifluorotoluene (PID)	93	59-133	EPA 8021B
Bromofluorobenzene (PID)	101	76-128	EPA 8021B

Field ID: TR-25(GW) Diln Fac: 20.00
 Type: SAMPLE Analyzed: 01/21/05
 Lab ID: 177265-020

Analyte	Result	RL	Analysis
Gasoline C7-C12	150,000 Y	1,000	EPA 8015B
Benzene	2,500	10	EPA 8021B
Toluene	ND	10	EPA 8021B
Ethylbenzene	3,600	10	EPA 8021B
m,p-Xylenes	1,100	10	EPA 8021B
o-Xylene	620	10	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	158 *	70-141	EPA 8015B
Bromofluorobenzene (FID)	232 *	>LR b 80-143	EPA 8015B
Trifluorotoluene (PID)	123	59-133	EPA 8021B
Bromofluorobenzene (PID)	149 *	76-128	EPA 8021B

*= Value outside of QC limits; see narrative
 C= Presence confirmed, but RPD between columns exceeds 40%
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit
 >LR= Response exceeds instrument's linear range

Curtis & Tompkins Laboratories Analytical Report

Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	4069.01		
Matrix:	Water	Sampled:	01/20/05
Units:	ug/L	Received:	01/20/05
Batch#:	98469		

Type: BLANK Diln Fac: 1.000
Lab ID: QC280081 Analyzed: 01/20/05

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	117	70-141	EPA 8015B
Bromofluorobenzene (FID)	121	80-143	EPA 8015B
Trifluorotoluene (PID)	104	59-133	EPA 8021B
Bromofluorobenzene (PID)	107	76-128	EPA 8021B

*= Value outside of QC limits; see narrative
 C= Presence confirmed, but RPD between columns exceeds 40%
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit
 >LR= Response exceeds instrument's linear range
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Total Volatile Hydrocarbons

Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	4069.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	98470
Units:	mg/Kg	Sampled:	01/20/05
Basis:	as received	Received:	01/20/05

Field ID:	TR-19-2.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	01/20/05
Lab ID:	177265-001		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	68-135
Bromofluorobenzene (FID)	96	75-148

Field ID:	TR-19-6.0'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	01/20/05
Lab ID:	177265-002		

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	92	68-135
Bromofluorobenzene (FID)	92	75-148

Field ID:	TR-20-2.0'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	01/21/05
Lab ID:	177265-003		

Analyte	Result	RL
Gasoline C7-C12	15	2.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	68-135
Bromofluorobenzene (FID)	102	75-148

Field ID:	TR-20-6.0'	Diln Fac:	25.00
Type:	SAMPLE	Analyzed:	01/21/05
Lab ID:	177265-004		

Analyte	Result	RL
Gasoline C7-C12	500 Y	25

Surrogate	%REC	Limits
Trifluorotoluene (FID)	152 *	68-135
Bromofluorobenzene (FID)	141	75-148

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected
RL= Reporting Limit
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Total Volatile Hydrocarbons

Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	4069.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	98470
Units:	mg/Kg	Sampled:	01/20/05
Basis:	as received	Received:	01/20/05

Field ID:	TR-21-2.0'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	01/20/05
Lab ID:	177265-005		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	90	68-135
Bromofluorobenzene (FID)	92	75-148

Field ID:	TR-21-6.0'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	01/20/05
Lab ID:	177265-006		

Analyte	Result	RL
Gasoline C7-C12	19	1.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	142 *	68-135
Bromofluorobenzene (FID)	112	75-148

Field ID:	TR-29-2.0'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	01/20/05
Lab ID:	177265-007		

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	68-135
Bromofluorobenzene (FID)	95	75-148

Field ID:	TR-29-6.0'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	01/21/05
Lab ID:	177265-008		

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	68-135
Bromofluorobenzene (FID)	96	75-148

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Total Volatile Hydrocarbons			
Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	4069.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	98470
Units:	mg/Kg	Sampled:	01/20/05
Basis:	as received	Received:	01/20/05

Field ID: TR-30-2.0' Diln Fac: 1.000
 Type: SAMPLE Analyzed: 01/21/05
 Lab ID: 177265-009

Analyte	Result	RL
Gasoline C7-C12	ND	1.1
Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	68-135
Bromofluorobenzene (FID)	100	75-148

Field ID: TR-30-6.0' Diln Fac: 1.000
 Type: SAMPLE Analyzed: 01/21/05
 Lab ID: 177265-010

Analyte	Result	RL
Gasoline C7-C12	2.8 H Y	1.1
Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	68-135
Bromofluorobenzene (FID)	92	75-148

Field ID: TR-31-2.5' Diln Fac: 1.000
 Type: SAMPLE Analyzed: 01/21/05
 Lab ID: 177265-011

Analyte	Result	RL
Gasoline C7-C12	ND	1.0
Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	68-135
Bromofluorobenzene (FID)	91	75-148

Field ID: TR-31-6.0' Diln Fac: 1.000
 Type: SAMPLE Analyzed: 01/21/05
 Lab ID: 177265-012

Analyte	Result	RL
Gasoline C7-C12	ND	1.1
Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	68-135
Bromofluorobenzene (FID)	98	75-148

*= Value outside of QC limits; see narrative
 H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit
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Total Volatile Hydrocarbons			
Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	4069.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	98470
Units:	mg/Kg	Sampled:	01/20/05
Basis:	as received	Received:	01/20/05

Field ID: TR-22-2.0' Diln Fac: 1.000
 Type: SAMPLE Analyzed: 01/21/05
 Lab ID: 177265-016

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	68-135
Bromofluorobenzene (FID)	99	75-148

Field ID: TR-22-6.0' Diln Fac: 1.000
 Type: SAMPLE Analyzed: 01/21/05
 Lab ID: 177265-017

Analyte	Result	RL
Gasoline C7-C12	1.7 L Y	1.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	112	68-135
Bromofluorobenzene (FID)	99	75-148

Field ID: TR-25-2.0' Diln Fac: 1.000
 Type: SAMPLE Analyzed: 01/21/05
 Lab ID: 177265-018

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	68-135
Bromofluorobenzene (FID)	94	75-148

Field ID: TR-25-6.0' Diln Fac: 100.0
 Type: SAMPLE Analyzed: 01/21/05
 Lab ID: 177265-019

Analyte	Result	RL
Gasoline C7-C12	2,100 Y	100

Surrogate	%REC	Limits
Trifluorotoluene (FID)	145 *	68-135
Bromofluorobenzene (FID)	144	75-148

*= Value outside of QC limits; see narrative
 H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected
 RL= Reporting Limit
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Total Volatile Hydrocarbons			
Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	4069.01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	98470
Units:	mg/Kg	Sampled:	01/20/05
Basis:	as received	Received:	01/20/05

Field ID: TR-28-2.0' Diln Fac: 1.000
 Type: SAMPLE Analyzed: 01/21/05
 Lab ID: 177265-021

Analyte	Result	RL
Gasoline C7-C12	ND	0.93
Surrogate	%REC	Limits
Trifluorotoluene (FID)	90	68-135
Bromofluorobenzene (FID)	91	75-148

Field ID: TR-28-6.0' Diln Fac: 5.000
 Type: SAMPLE Analyzed: 01/21/05
 Lab ID: 177265-022

Analyte	Result	RL
Gasoline C7-C12	160 Y	5.0
Surrogate	%REC	Limits
Trifluorotoluene (FID)	114	68-135
Bromofluorobenzene (FID)	146	75-148

Type: BLANK Diln Fac: 1.000
 Lab ID: QC280084 Analyzed: 01/20/05

Analyte	Result	RL
Gasoline C7-C12	ND	1.0
Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	68-135
Bromofluorobenzene (FID)	98	75-148

*= Value outside of QC limits; see narrative
 H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit
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Total Extractable Hydrocarbons

Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	4069.01	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	01/20/05
Units:	ug/L	Received:	01/20/05
Diln Fac:	1.000	Prepared:	01/24/05
Batch#:	98577	Analyzed:	01/25/05

Field ID: TR-29 (GW) Lab ID: 177265-013
 Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	280 H Y	50
Motor Oil C24-C36	340 L	300

Surrogate	%REC	Limits
Hexacosane	124	53-143

Field ID: TR-30 (GW) Lab ID: 177265-014
 Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	640 H Y	50
Motor Oil C24-C36	960	300

Surrogate	%REC	Limits
Hexacosane	101	53-143

Field ID: TR-31 (GW) Lab ID: 177265-015
 Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	270 H Y	50
Motor Oil C24-C36	1,500	300

Surrogate	%REC	Limits
Hexacosane	102	53-143

Type: BLANK Cleanup Method: EPA 3630C
 Lab ID: QC280484

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	94	53-143

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit
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Total Extractable Hydrocarbons			
Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	4069.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/20/05
Units:	mg/Kg	Received:	01/20/05
Basis:	as received		

Field ID: TR-19-2.5' Batch#: 98572
 Type: SAMPLE Prepared: 01/24/05
 Lab ID: 177265-001 Analyzed: 01/24/05
 Diln Fac: 10.00

Analyte	Result	RL
Diesel C10-C24	97 H Y	10
Motor Oil C24-C36	910	50

Surrogate	%REC	Limits
Hexacosane	DO	55-134

Field ID: TR-19-6.0' Batch#: 98572
 Type: SAMPLE Prepared: 01/24/05
 Lab ID: 177265-002 Analyzed: 01/24/05
 Diln Fac: 1.000

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	94	55-134

Field ID: TR-20-2.0' Batch#: 98572
 Type: SAMPLE Prepared: 01/24/05
 Lab ID: 177265-003 Analyzed: 01/24/05
 Diln Fac: 1.000

Analyte	Result	RL
Diesel C10-C24	65 L Y	1.0
Motor Oil C24-C36	26 H	5.0

Surrogate	%REC	Limits
Hexacosane	94	55-134

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit
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Total Extractable Hydrocarbons			
Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	4069.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/20/05
Units:	mg/Kg	Received:	01/20/05
Basis:	as received		

Field ID: TR-20-6.0' Batch#: 98572
 Type: SAMPLE Prepared: 01/24/05
 Lab ID: 177265-004 Analyzed: 01/24/05
 Diln Fac: 1.000

Analyte	Result	RL
Diesel C10-C24	320 L	1.0
Motor Oil C24-C36	22 L	5.0

Surrogate	%REC	Limits
Hexacosane	101	55-134

Field ID: TR-21-2.0' Batch#: 98572
 Type: SAMPLE Prepared: 01/24/05
 Lab ID: 177265-005 Analyzed: 01/24/05
 Diln Fac: 1.000

Analyte	Result	RL
Diesel C10-C24	1.7 H Y	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	87	55-134

Field ID: TR-21-6.0' Batch#: 98572
 Type: SAMPLE Prepared: 01/24/05
 Lab ID: 177265-006 Analyzed: 01/24/05
 Diln Fac: 1.000

Analyte	Result	RL
Diesel C10-C24	69 H L	1.0
Motor Oil C24-C36	42 L	5.0

Surrogate	%REC	Limits
Hexacosane	95	55-134

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit
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Total Extractable Hydrocarbons

Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	4069.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/20/05
Units:	mg/Kg	Received:	01/20/05
Basis:	as received		

Field ID:	TR-29-2.0'	Batch#:	98572
Type:	SAMPLE	Prepared:	01/24/05
Lab ID:	177265-007	Analyzed:	01/24/05
Diln Fac:	50.00		

Analyte	Result	RL
Diesel C10-C24	160 H Y	50
Motor Oil C24-C36	1,600	250

Surrogate	%REC	Limits
Hexacosane	DO	55-134

Field ID:	TR-29-6.0'	Batch#:	98572
Type:	SAMPLE	Prepared:	01/24/05
Lab ID:	177265-008	Analyzed:	01/24/05
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	2.8 H Y	1.0
Motor Oil C24-C36	6.6 L	5.0

Surrogate	%REC	Limits
Hexacosane	103	55-134

Field ID:	TR-30-2.0'	Batch#:	98572
Type:	SAMPLE	Prepared:	01/24/05
Lab ID:	177265-009	Analyzed:	01/24/05
Diln Fac:	20.00		

Analyte	Result	RL
Diesel C10-C24	65 H Y	20
Motor Oil C24-C36	510	100

Surrogate	%REC	Limits
Hexacosane	DO	55-134

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit
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Total Extractable Hydrocarbons

Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	4069.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/20/05
Units:	mg/Kg	Received:	01/20/05
Basis:	as received		

Field ID:	TR-30-6.0'	Batch#:	98613
Type:	SAMPLE	Prepared:	01/25/05
Lab ID:	177265-010	Analyzed:	01/25/05
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	63 L	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	86	55-134

Field ID:	TR-31-2.5'	Batch#:	98613
Type:	SAMPLE	Prepared:	01/25/05
Lab ID:	177265-011	Analyzed:	01/25/05
Diln Fac:	20.00		

Analyte	Result	RL
Diesel C10-C24	1,100 H L Y	20
Motor Oil C24-C36	2,700	100

Surrogate	%REC	Limits
Hexacosane	DO	55-134

Field ID:	TR-31-6.0'	Batch#:	98613
Type:	SAMPLE	Prepared:	01/25/05
Lab ID:	177265-012	Analyzed:	01/25/05
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	3.1 H L Y	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	109	55-134

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit

Total Extractable Hydrocarbons

Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	4069.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/20/05
Units:	mg/Kg	Received:	01/20/05
Basis:	as received		

Field ID:	TR-22-2.0'	Batch#:	98613
Type:	SAMPLE	Prepared:	01/25/05
Lab ID:	177265-016	Analyzed:	01/25/05
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	5.5 H Y	1.0
Motor Oil C24-C36	32	5.0

Surrogate	%REC	Limits
Hexacosane	97	55-134

Field ID:	TR-22-6.0'	Batch#:	98613
Type:	SAMPLE	Prepared:	01/25/05
Lab ID:	177265-017	Analyzed:	01/25/05
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	8.5 H Y	1.0
Motor Oil C24-C36	10 H L	5.0

Surrogate	%REC	Limits
Hexacosane	85	55-134

Field ID:	TR-25-2.0'	Batch#:	98613
Type:	SAMPLE	Prepared:	01/25/05
Lab ID:	177265-018	Analyzed:	01/25/05
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	11 H Y	1.0
Motor Oil C24-C36	62	5.0

Surrogate	%REC	Limits
Hexacosane	102	55-134

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit
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Total Extractable Hydrocarbons			
Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	4069.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/20/05
Units:	mg/Kg	Received:	01/20/05
Basis:	as received		

Field ID: TR-25-6.0' Batch#: 98613
 Type: SAMPLE Prepared: 01/25/05
 Lab ID: 177265-019 Analyzed: 01/25/05
 Diln Fac: 1.000

Analyte	Result	RL
Diesel C10-C24	44 H L Y	1.0
Motor Oil C24-C36	16	5.0

Surrogate	%REC	Limits
Hexacosane	118	55-134

Field ID: TR-28-2.0' Batch#: 98613
 Type: SAMPLE Prepared: 01/25/05
 Lab ID: 177265-021 Analyzed: 01/25/05
 Diln Fac: 1.000

Analyte	Result	RL
Diesel C10-C24	4.3 H Y	1.0
Motor Oil C24-C36	54	5.0

Surrogate	%REC	Limits
Hexacosane	117	55-134

Field ID: TR-28-6.0' Batch#: 98613
 Type: SAMPLE Prepared: 01/25/05
 Lab ID: 177265-022 Analyzed: 01/25/05
 Diln Fac: 1.000

Analyte	Result	RL
Diesel C10-C24	140 H L Y	1.0
Motor Oil C24-C36	280	5.0

Surrogate	%REC	Limits
Hexacosane	106	55-134

Type: BLANK Batch#: 98572
 Lab ID: QC280468 Prepared: 01/24/05
 Diln Fac: 1.000 Analyzed: 01/24/05

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	98	55-134

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit
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Total Extractable Hydrocarbons

Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	4069.01	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/20/05
Units:	mg/Kg	Received:	01/20/05
Basis:	as received		

Type:	BLANK	Prepared:	01/25/05
Lab ID:	QC280603	Analyzed:	01/25/05
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	98613		

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	102	55-134

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	4069.01	Analysis:	EPA 8260B
Field ID:	TR-31(GW)	Batch#:	98515
Lab ID:	177265-015	Sampled:	01/20/05
Matrix:	Water	Received:	01/20/05
Units:	ug/L	Analyzed:	01/21/05
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

Purgeable Organics by GC/MS

Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	4069.01	Analysis:	EPA 8260B
Field ID:	TR-31 (GW)	Batch#:	98515
Lab ID:	177265-015	Sampled:	01/20/05
Matrix:	Water	Received:	01/20/05
Units:	ug/L	Analyzed:	01/21/05
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	108	80-120
Toluene-d8	101	80-120
Bromofluorobenzene	107	80-122

ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

Polychlorinated Biphenyls (PCBs)			
Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	4069.01	Analysis:	EPA 8082
Matrix:	Soil	Batch#:	98566
Units:	ug/Kg	Sampled:	01/20/05
Basis:	as received	Received:	01/20/05
Diln Fac:	1.000	Prepared:	01/24/05

Field ID: TR-25-2.0'
Type: SAMPLE
Lab ID: 177265-018

Analyzed: 01/25/05
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	9.7
Aroclor-1221	ND	19
Aroclor-1232	ND	9.7
Aroclor-1242	ND	9.7
Aroclor-1248	ND	9.7
Aroclor-1254	ND	9.7
Aroclor-1260	11	9.7

Surrogate	%REC	Limits
TCMX	76	62-140
Decachlorobiphenyl	88	48-149

Field ID: TR-28-2.0'
Type: SAMPLE
Lab ID: 177265-021

Analyzed: 01/25/05
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	9.6
Aroclor-1221	ND	19
Aroclor-1232	ND	9.6
Aroclor-1242	ND	9.6
Aroclor-1248	ND	9.6
Aroclor-1254	ND	9.6
Aroclor-1260	ND	9.6

Surrogate	%REC	Limits
TCMX	85	62-140
Decachlorobiphenyl	89	48-149

Type: BLANK
Lab ID: QC280444

Analyzed: 01/24/05
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	9.6
Aroclor-1221	ND	19
Aroclor-1232	ND	9.6
Aroclor-1242	ND	9.6
Aroclor-1248	ND	9.6
Aroclor-1254	ND	9.6
Aroclor-1260	ND	9.6

Surrogate	%REC	Limits
TCMX	81	62-140
Decachlorobiphenyl	97	48-149

Lead

Lab #:	177265	Location:	Emeryville Industrial Ct
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	4069.01	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	98505
Matrix:	Soil	Sampled:	01/20/05
Units:	mg/Kg	Received:	01/20/05
Basis:	as received	Prepared:	01/21/05
Diln Fac:	1.000	Analyzed:	01/21/05

Field ID	Type	Lab ID	Result	RL
TR-29-2.0'	SAMPLE	177265-007	9.2	0.14
TR-30-2.0'	SAMPLE	177265-009	11	0.15
TR-25-2.0'	SAMPLE	177265-018	14	0.15
TR-28-2.0'	SAMPLE	177265-021	5.6	0.12
	BLANK	QC280201	ND	0.15

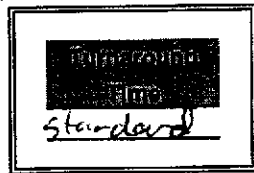
177265

Treadwell & Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Greenville Industrial Court
 Job Number: 4069.01
 Project Manager/Contact: David Kleesattel
 Samplers: Eric Deratzen / Eric Morita
 Recorder (Signature Required): [Signature]



Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative										Analysis Requested		Silica gel clean-up	Hold	Remarks																			
				Soil	Water	Other	HCL	H ₂ SO ₄	HNO ₃	Ice	Other	None	TRPH (Green/white)	TPH - G (BOISM)	PCBs (BOBI)				Lead (6010)	BTEX (BOBO)	VOCs (BOBO)																
-1 TR-19-2.5'	1/20/05	920		X							X				X	X																					
-2 TR-19-6.0'		930		X											X	X																					
-3 TR-20-2.0'		1025		X											X	X																					
-4 TR-20-6.0'		1035		X											X	X																					
-5 TR-21-2.0'		1030		X											X	X																					
-6 TR-21-6.0'		1125		X											X	X																					
-7 TR-29-2.0'		1040		X											X	X	X																				
-8 TR-29-6.0'		1050		X											X	X																					
-9 TR-30-2.0'		1130		X											X	X	X																				
-10 TR-30-6.0'		1140		X											X	X																					
-11 TR-31-2.5'		1305		X											X	X																					
-12 TR-31-6.0'		1315		X											X	X																					
-13 TR-29(6w)		1300			X				4						X	X	X																				
-14 TR-30(6w)		1355			X				4						X	X	X																				

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>1/20/05</u>	Time <u>1620</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>1-20-05</u>	Time <u>4:20pm</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

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

Received On Ice
 Cold Ambient Contact

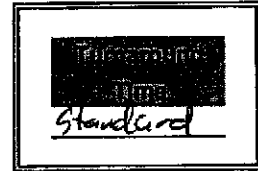
177265

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 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Everville Industrial Ct
 Job Number: 4069.01
 Project Manager/Contact: David Kleesattel
 Samplers: Eric Deratzen / Eric Morita
 Recorder (Signature Required): [Signature]



Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix		No. Containers & Preservative							Silica gel clean-up	Hold	Remarks				
				Soil	Water	HCL	H ₂ SO ₄	HNO ₃	Ice	Other	None	TPH (B01)				TPH-G (B01SM)	PCBs (B02B)	Lead (B01D)	BTX (B020)
-15 TR-31 (GW)	1/20/05	1445			X		4			X									
-16 TR-22-2.0'		1425		X															
-17 TR-22-6.0'		1440		X															
-18 TR-25-2.0'		1425		X															Soil
-19 TR-25-6.0'		1450		X															Soil
-20 TR-25 (GW)		1520			X		4												
-21 TR-28-2.0'		1518		X															
-22 TR-28-6.0'	✓	1528		X															

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>1/20/05</u>	Time <u>1620</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>1-20-05</u>	Time <u>4:20 p.m.</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): _____ Method of Shipment Lab courier Fed Ex Airborne UPS
 Laboratory Comments/Notes: _____ Hand Carried Private Courier (Co. Name)

Ambient Other

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd



COOLER RECEIPT CHECKLIST

Login#: 177265 Date Received: 1-20-05 Number of Coolers: 1
Client: Treadwell & Rollo Project: 4069.01

A. Preliminary Examination Phase

Date Opened: 1-20-05 By (print): Tray Windsor (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES NO
If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler?..... YES NO
How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival?..... YES NO *N/A*
4. Were custody papers dry and intact when received?..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)?..... YES NO
6. Did you sign the custody papers in the appropriate place?..... YES NO
7. Was project identifiable from custody papers?..... YES NO
If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. YES NO
Type of ice: wet Temperature: cold - no temp blank

B. Login Phase

Date Logged In: 1-20-05 By (print): Tray Windsor (sign) [Signature]

1. Describe type of packing in cooler: In plastic ziploc type bags, glass in paper towels
2. Did all bottles arrive unbroken?..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)?..... YES NO
4. Did bottle labels agree with custody papers?..... YES NO
5. Were appropriate containers used for the tests indicated?..... YES NO
6. Were correct preservatives added to samples?..... YES NO
7. Was sufficient amount of sample sent for tests indicated?..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample ids below..... YES NO
9. Was the client contacted concerning this sample delivery?..... YES NO
If YES, give details below.
Who was called? _____ By whom? _____ Date: _____

Additional Comments:
