Advanced GeoEnvironmental, Inc.

02 November 2006
AGE-NC Project No. 03-1101

Mr. Jerry Wickham
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: **Soil Boring Report**
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California

Dear Mr. Wickham:

Advanced GeoEnvironmental, Inc. has prepared the enclosed *Soil Boring Report* for the above-referenced site. The report documents the advancement, sampling, and findings of seven on-site soil borings in July 2006.

If you have any questions or require further information, please contact our office at (209) 467-1006.

Sincerely,

***Advanced* GeoEnvironmental, Inc.**

Jo'l M. Chapman
Staff Geologist

837 Shaw Road, Stockton, California 95215
Telephone (209) 467-1006 Fax (209) 467-1118

Soil Boring Report

RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California

02 November 2006
AGE-NC Project No. 03-1101

PREPARED FOR:

Mr. Reed Rinehart
RINEHART OIL, INC.

PREPARED BY:

Advanced GeoEnvironmental, Inc.

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Soil Boring Report

RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California

02 November 2006
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***Advanced* GeoEnvironmental, Inc.**
837 Shaw Road, Stockton, California

PREPARED BY:

Jo'l M. Chapman
Staff Geologist

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California Professional Geologist No. 7473

PROFESSIONAL GEOLOGIST
WILLIAM R. LITTLE
No. 7473
STATE OF CALIFORNIA

Soil Boring Report
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California

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1107 5th Street, Oakland, California

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Soil Boring Report
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California

1.0. INTRODUCTION

At the request of Mr. Reed Rinehart of Rinehart Oil, Inc., *Advanced* GeoEnvironmental, Inc. (AGE) has prepared this *Soil Boring Report* for the site located at 1107 5th Street, Oakland, California. In a directive letter dated 30 June 2005, Alameda County Environmental Health Services (ACEHS-DEP; Appendix A) required further vertical and lateral delineation of petroleum hydrocarbon contamination resulting from an unauthorized release from underground storage tanks (USTs). The scope of work included advancement of seven exploratory soil borings, collection and analysis of soil and grab ground water samples, and preparation of this report. The site and surrounding area are illustrated on Figure 1; on-site structures, soil borings, and well locations are illustrated on Figure 2. Site background information is provided in Appendix B.

This report has been prepared in accordance with the Regional Water Quality Control Board's *Appendix A - Reports, Tri-Regional Board Staff Recommendations for Preliminary Investigation and Evaluation of Underground Tank Sites*. Field work was performed as detailed in the AGE-prepared *Additional Site Assessment Work Plan*, dated 29 September 2005 and approved by the ACEHS-DEP by letter dated 26 October 2005 (Appendix C).

2.0. PROCEDURES

On 05, 06, and 07 July 2006, five soil borings were advanced on-site to a depth of 40 feet below surface grade (bsg) utilizing a CME-75 HT truck-mounted drill rig. On 18 July 2006, two additional soil borings were advanced on-site near the Adeline Street utility corridor to 20 feet bsg utilizing a van-mounted Geoprobe 5400 direct-push probing unit. All borings were continuously cored from surface grade to total depth. Soil and grab ground water samples were collected at selected intervals based on lithology encountered during drilling; grab ground water samples were collected from borings advanced immediately adjacent to P1 through P5, and at total depth in borings P6 and P7.

2.1. SOIL BORING ADVANCEMENT

On 05, 06, and 07 July 2006, AGE advanced five soil borings (designated P1 through P5) to a total depth of 40 feet bsg utilizing a CME-75 HT truck-mounted drill rig equipped with 8.25-inch diameter hollow-stem augers. The drill rig and three-man crew were provided by TestAmerica Drilling Corp. of Rancho Cordova, California. The borings were advanced to characterize the lateral and vertical extents of petroleum hydrocarbon contamination to soil and ground water at the site.

On 18 July 2006, two soil probe borings (P6 and P7) were advanced at the site to a total depth of 20 feet bsg utilizing a van-mounted Geoprobe 5400 direct-push probing unit equipped with 1.25-inch

diameter probing rods. The borings were advanced on the western edge of the property to define the lateral extent of the hydrocarbon plume west of well MW-8 and to evaluate the potential for utilities along Adeline Street to act as preferential pathways.

2.2. SOIL SAMPLE COLLECTION AND ANALYSIS

Soil borings P1 through P5 were continuously cored utilizing a 5-foot long core barrel, and soil borings P6 and P7 were continuously cored utilizing a Geoprobe Macrocore sampler containing a 4-foot long plastic liner; samples were collected by hand into 6-inch brass sleeves. Lithology was characterized in accordance with the Unified Soil Classification System by an AGE geologist. Additionally, soil was field-screened utilizing an organic vapor analyzer (OVA) equipped with a photo-ionization detector (PID: Thermo Environmental 580, 10.0 eV, calibrated to isobutylene). Boring logs exhibiting the vertical soil profile and PID readings are included in Appendix D. All sampling equipment was washed in an Alconox solution and rinsed twice with water prior to each sampling run.

For each soil sample collected, both ends of the sample sleeve were covered with Teflon sheets, capped, and sealed with tape. The samples were then labeled, stored on ice, and transported under chain of custody to Cal Tech Environmental Laboratories (CTEL), a State of California Department of Health Services (DHS)-certified analytical laboratory in Paramount, California. Selected samples were analyzed for:

- Total petroleum hydrocarbons quantified as gasoline and diesel (TPH-g and TPH-d, respectively) in accordance with EPA Method 8015M; and
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) and fuel additives di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), methyl tertiary-butyl ether (MTBE), tertiary-amyl methyl ether (TAME), and tertiary-butyl alcohol (TBA) and lead scavengers 1,2-dibromoethane (EDB), and 1,2-dichloroethane (1,2-DCA) in accordance with EPA Method 8260B.

2.3. GRAB GROUND WATER SAMPLE COLLECTION AND ANALYSIS

Grab ground water samples were collected from borings advanced immediately adjacent to P1 through P5 utilizing the CME-75 HT drill rig and hollow stem augers. Ground water samples were collected by lowering a steel hand bailer through the augers after drilling to specified coarse-grained zones (between 10 feet and 35 feet bsg). All sampling equipment was washed in an Alconox solution and rinsed twice with water prior to each sampling run. Ground water samples were transferred into

three laboratory-supplied, 40-milliliter (ml) volatile organic analysis (VOA) vials and one 1-liter amber bottle.

Grab ground water samples were collected from borings P6 and P7 after probing to a total depth of 20 feet bsg. Samples were collected using a Geoprobe water sampling assembly with a pre-cleaned, 1-inch diameter 0.010-inch slotted polyvinylchloride (PVC) screen. Each sample was extracted by lowering a Teflon hose-bailer through the hollow center of the push rods into the screened section. Ground water samples were transferred into three laboratory-supplied, 40-ml VOA vials and one 1-liter amber bottle.

After collection, all ground water samples were properly labeled, placed on ice, and transported under chain of custody to CTEL for analysis for the petroleum hydrocarbon products listed in Section 2.2..

3.0. FINDINGS

The stratigraphy and ground water hydrogeology underlying the site were characterized from field descriptions. Hydrocarbon impact to soil and ground water was assessed by laboratory analysis.

3.1. STRATIGRAPHY

In general, a distinct zone of gray-brown to black, moist to saturated peat and clay with a strong, stale odor was encountered throughout the site west of boring P1. The top of the peat zone was encountered at depths between approximately 7 feet on the western end of the site and 12 feet on the eastern end in boring P7, with thickness ranging from approximately 7 feet in boring P2 (east) to 20 feet in boring P4 (west). Clay and sandy clay were encountered in borings P3, P4, and P7 at depths above approximately 7 feet bsg, and gray to dark brown, fine-grained and poorly graded sand and silty sand were identified east of boring P1 and throughout the remaining depth intervals in all other borings. Soil boring logs are provided in Appendix D.

3.2. ANALYTICAL RESULTS OF SOIL SAMPLES

Soil samples were collected between depths of 6 feet and 40 feet bsg from borings P1 through P7 and analyzed for the constituents listed in Section 2.2.. TPH-g was detected in soil samples P1-6, P1-21, P2-8, and P4-7 at concentrations of 210 milligrams per kilogram (mg/kg), 2.6 mg/kg, 110 mg/kg, and 10 mg/kg, respectively. TPH-d was detected in samples P1-6, P2-8, and P4-7 at concentrations of 7,600 mg/kg, 680 mg/kg, and 13,000 mg/kg, respectively.

Benzene was detected in sample P1-21 at a concentration of 0.014 mg/kg. Toluene, ethylbenzene, and xylenes were detected in sample P2-8 at concentrations of 0.22 mg/kg, 0.62 mg/kg, and 4.2 mg/kg, respectively.

No additional constituents of concern were detected at or above laboratory detection limits in the soil samples analyzed. Analytical results of soil samples are summarized in Table 1. The vertical extent of adsorbed contamination is illustrated on cross-section A-A' (Figure 3). The laboratory reports (CTEL Project Nos. CT214-0607041 and -0607108), quality assurance and quality control (QA/QC) reports, and chain of custody forms are included in Appendix E.

3.3. ANALYTICAL RESULTS OF GRAB GROUND WATER SAMPLES

Grab ground water samples were collected from soil borings advanced immediately adjacent to P1 through P5 at selected sandy zones between 10 feet and 35 feet bsg, and from borings P6 and P7 at a depth of 20 feet bsg. TPH-g was detected in boring P1 at 20 feet and 35 feet bsg, in boring P4 at 10 feet bsg, in boring P5 at 10 feet and 35 feet bsg, and in borings P6 and P7 at 20 feet bsg at concentrations ranging from 130 micrograms per liter (µg/l; P6-20-W) to 38,000 µg/l (P4-W-10). TPH-d was detected in boring P1 at 20 feet and 35 feet bsg, in boring P4 at 10 feet bsg, and in boring P7 at 20 feet bsg at concentrations ranging from 4,500 µg/l (P1-W-35) to 350,000 µg/l (P4-W-10).

BTEX constituents were detected in boring P1 at 20 feet and 35 feet bsg, P5 at 10 feet and 35 feet bsg, and P6 at 20 feet bsg at maximum concentrations of 110 µg/l benzene (P1-W-20), 36 µg/l toluene (P5-W-10), 13 µg/l ethylbenzene (P1-W-35), and 17.3 µg/l total xylenes (P1-W-20).

MTBE was detected in samples collected from boring P1 at 20 feet and 35 feet bsg, in boring P4 at 10 feet bsg, in boring P5 at 10 feet and 35 feet bsg, and in borings P6 and P7 at 20 feet bsg at concentrations ranging from 4.1 µg/l (P6-20-W) to 11,000 µg/l (P1-W-20). TAME was detected in boring P1 at 20 feet and 35 feet bsg, in boring P4 at 10 feet bsg, and in boring P5 at 10 feet bsg at concentrations ranging from 3.4 µg/l (P5-W-10) to 17 µg/l (P1-W-20). The lead scavenger 1,2-DCA was detected in boring P1 at 20 feet and 35 feet bsg at concentrations of 4.7 µg/l and 3.4 µg/l, respectively.

No additional constituents of concern were detected at or above laboratory detection limits in the grab ground water samples analyzed. Analytical results of grab ground water samples are summarized in Table 1. The vertical extent of dissolved contamination is illustrated on cross-section A-A' (Figure 4). The estimated lateral distribution of TPH-g, TPH-d, and MTBE at 20 feet bsg and at 35 feet bsg are illustrated on Figures 5 through 10. The laboratory reports (CTEL Project Nos. CT214-0607041 and -0607108), QA/QC reports, and chain of custody forms are included in Appendix E.

4.0. SUMMARY

- In general, a distinct zone of gray-brown to black, moist to saturated peat and clay with a strong, stale odor was encountered throughout the site west of boring P1. The top of the peat zone was encountered at depths between approximately 7 feet on the western end of the site and 12 feet on the eastern end in boring P7, with thickness ranging from approximately 7 feet in boring P2 (east) to 20 feet in boring P4 (west). Clay and sandy clay were encountered in borings P3, P4, and P7 at depths above approximately 7 feet bsg, and gray to dark brown, fine-grained and poorly graded sand and silty sand were identified east of boring P1 and throughout the remaining depth intervals in all other borings.
- Soil samples were collected between depths of 6 feet and 40 feet bsg from borings P1 through P7 and analyzed for the constituents listed in Section 2.2..
- TPH-g was detected in soil samples P1-6, P1-21, P2-8, and P4-7 at concentrations of 210 mg/kg, 2.6 mg/kg, 110 mg/kg, and 10 mg/kg, respectively. TPH-d was detected in samples P1-6, P2-8, and P4-7 at concentrations of 7,600 mg/kg, 680 mg/kg, and 13,000 mg/kg, respectively.
- Benzene was detected in soil sample P1-21 at a concentration of 0.014 mg/kg. Toluene, ethylbenzene, and xylenes were detected in sample P2-8 at concentrations of 0.22 mg/kg, 0.62 mg/kg, and 4.2 mg/kg, respectively.
- Grab ground water samples were collected from soil borings advanced immediately adjacent to P1 through P5 at selected sandy zones between 10 feet and 35 feet bsg, and from borings P6 and P7 at a depth of 20 feet bsg.
- TPH-g was detected in ground water samples collected from boring P1 at 20 feet and 35 feet bsg, boring P4 at 10 feet bsg, boring P5 at 10 feet and 35 feet bsg, and borings P6 and P7 at 20 feet bsg at concentrations ranging from 130 µg/l to 38,000 µg/l. TPH-d was detected in boring P1 at 20 feet and 35 feet bsg, in boring P4 at 10 feet bsg, and in boring P7 at 20 feet bsg at concentrations ranging from 4,500 µg/l to 350,000 µg/l.
- BTEX constituents were detected in ground water samples collected from boring P1 at 20 feet and 35 feet bsg, P5 at 10 feet and 35 feet bsg, and P6 at 20 feet bsg at maximum concentrations of 110 µg/l benzene, 36 µg/l toluene, 13 µg/l ethylbenzene, and 17.3 µg/l total xylenes.
- MTBE was detected in ground water samples collected from boring P1 at 20 feet and 35 feet bsg, boring P4 at 10 feet bsg, boring P5 at 10 feet and 35 feet bsg, and borings P6 and P7 at 20 feet bsg at concentrations ranging from 4.1 µg/l to 11,000 µg/l. TAME was detected in boring P1 at 20 feet and 35 feet bsg, in boring P4 at 10 feet bsg, and in boring P5 at 10 feet bsg at concentrations ranging from 3.4 µg/l to 17 µg/l. The lead scavenger 1,2-DCA was detected in boring P1 at 20 feet and 35 feet bsg at concentrations of 4.7 µg/l and 3.4 µg/l,

respectively.

5.0. CONCLUSIONS AND RECOMMENDATIONS

The maximum vertical extent of petroleum hydrocarbon contamination to soil at the site does not appear to extend below 30 feet bsg (boring P1). Vertical contaminant migration in soil west of P1 may be retarded by a thick layer of "bay mud" encountered at depths between 7 feet and 33 feet bsg.

The vertical extent of ground water contamination is not defined in the core areas, near borings P1 and P5. Additionally, the lateral extent of dissolved contamination appears to extend west near the Adeline Street utility corridor. Two additional soil borings are proposed south of P6 and P7 to further define the extent of contamination in the utility corridor; advancement of the borings is postponed pending acquisition of an access agreement from the former Oliver's Hof Brau property.

The lateral extent of ground water contamination is not yet defined to the northwest. Two additional shallow ground water monitoring wells will be installed on the north side of 5th Street in the BART district right-of-way, which includes the northern half of 5th Street. Once an access agreement is obtained from BART, AGE will install the proposed wells.

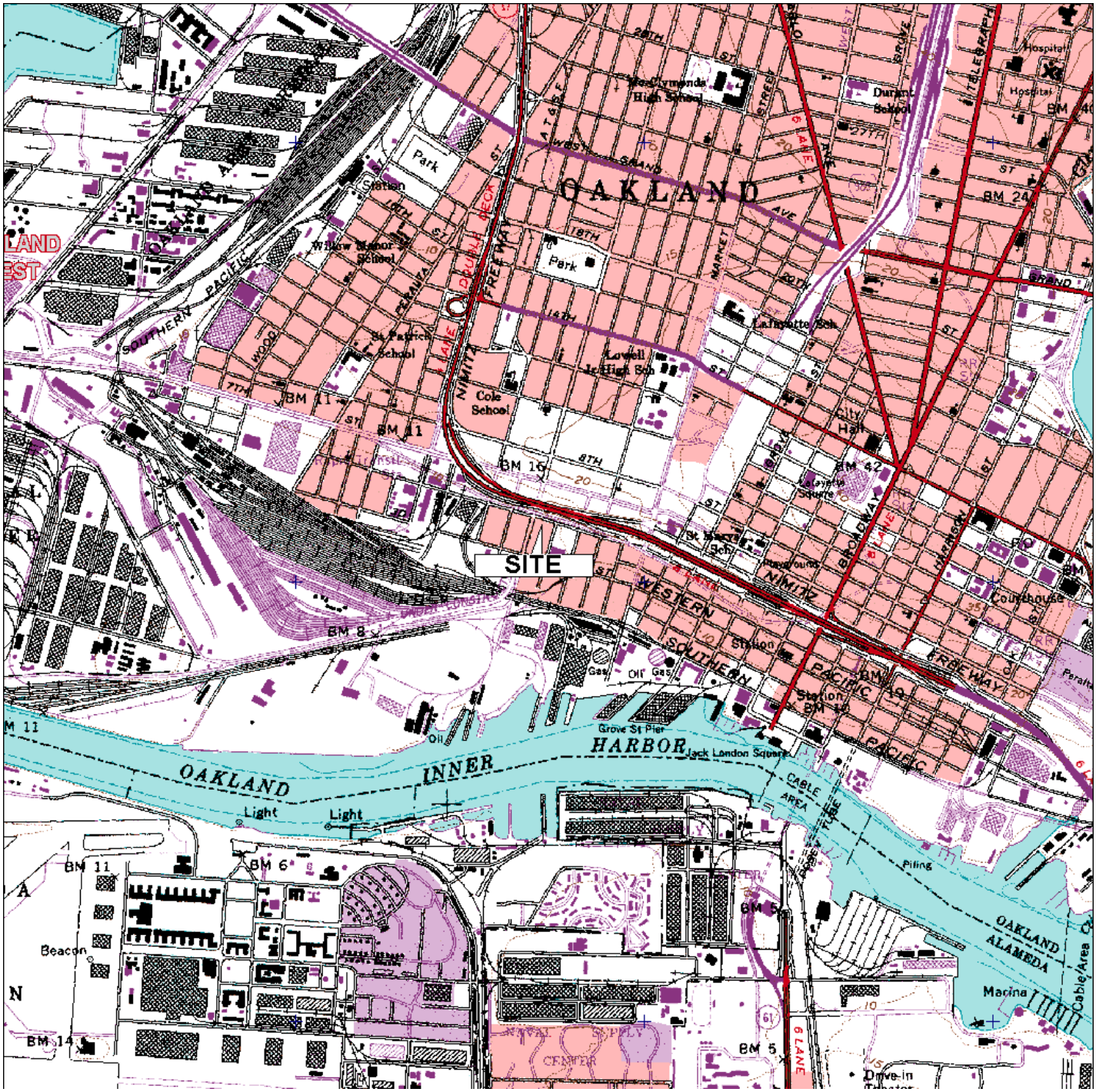
The vertical extent of dissolved hydrocarbons and MTBE is not defined at the location of boring P1. A ground water monitoring well should be installed to confirm the detection of dissolved TPH and MTBE in the deep grab ground water sample. The results of the dissolved contamination should determine what additional remediation should occur at the site; if the dissolved MTBE is confirmed then deep ozone sparge (injection) points should be installed and the vertical migration of dissolved MTBE should be remediated.

After completion of the additional soil borings and monitoring wells, AGE will develop a site conceptual model to guide the direction of future investigations.

6.0. LIMITATIONS

Our professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar localities. The findings were based upon field measurements and analytical results provided by an independent laboratory. Evaluations of the geologic and hydrogeologic conditions at the site for the purpose of this investigation are made from a limited number of available data points (i.e. soil and ground water samples) and subsurface conditions may vary away from these data points. No other warranty, expressed or implied, is made as to the professional interpretations, opinions and recommendations contained in this report.

FIGURES



OAKLAND WEST QUADRANGLE, CALIFORNIA
7.5 MINUTE SERIES (U.S. GEOLOGICAL SURVEY)

LOCATION MAP

RINEHART – OAKLAND TRUCK STOP
1107 5TH STREET
OAKLAND, CALIFORNIA

Advanced GeoEnvironmental, Inc.
of Northern California

PROJECT NO. AGE-NC-03-1101	FILE: LOCATION	FIGURE: 1
DATE: 27 SEPTEMBER 2004	DRAWN BY: MAC	

SITE PLAN
RINEHART – OAKLAND TRUCK STOP
1107 5TH STREET
OAKLAND, CALIFORNIA

Advanced GeoEnvironmental, Inc.
of Northern California

PROJECT NO. AGE-NC-03-1101 | FILE: OaklandSITE2006 | FIGURE: 2
DATE: 02 NOVEMBER 2006 | DRAWN BY: MAC

BART District Right-of-Way
5th Street
Adeline Street
Chestnut Street
Property Line
Scale
Scale House
PUMP ISLAND
Former USTs
PUMP ISLAND Diesel
PUMP ISLAND Diesel and Gasoline
Main Building
Oliver's Hoffbrau

MW-1, MW-3N, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16
B-1, B-2, B-3, B-4, B-5, B-6, B-7, B-8
P1, P1-W, P2, P2-W, P3, P3-W, P4, P4-W, P5, P5-W, P6, P7
OZ1, OZ2, OZ3, OZ4, OZ5, OZ6, OZ7, OZ8, OZ9, OZ10, OZ11, OZ12, OZ13, OZ14, OZ15, OZ16, OZ17, OZ18, OZ19, OZ20
A, A'

LEGEND

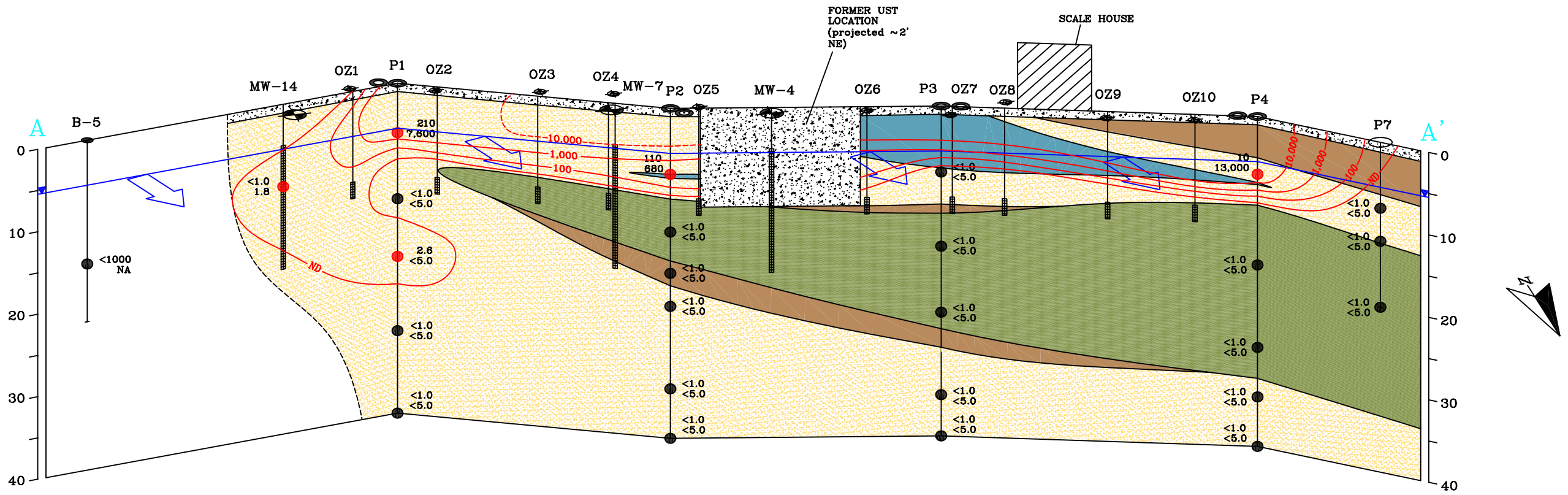
- FORMER UNDERGROUND STORAGE TANK (UST) LOCATION
- EXISTING STRUCTURE
- MW-1 GROUND WATER MONITORING WELL LOCATION & DESIGNATION
- B-6 SOIL BORING LOCATION & DESIGNATION (JULY 2002)
- OZONE SPARGE WELL LOCATION
- SOIL BORING/HYDROPUNCH BORING LOCATION (JULY 2006)
- GEOPROBE SOIL BORING LOCATION (JULY 2006)
- PROPOSED GEOPROBE SOIL BORING LOCATION
- PROPOSED GROUND WATER MONITORING WELL LOCATION
- SEWER LINE
- CROSS-SECTION LINE

N

SCALE
0 35 70
FEET

EAST

WEST



LEGEND

- TOPSOIL/FILL MATERIAL
- SILTY CLAY, CLAY
- "BAY MUD:" PEAT, CLAYEY PEAT, PEATY CLAY, PEAT WITH SAND
- CLAYEY SAND/SANDY CLAY
- SAND, SILTY SAND

- HISTORICAL HIGH/LOW OR AVERAGE DEPTH TO GROUND WATER
- SCREEN INTERVAL OF WELL OR TEMPORARY WELL SCREEN LOCATION
- 12 / 51 — SOIL SAMPLE LOCATION WITH: TPH-G CONCENTRATION, TPH-D CONCENTRATION
- EXTENT OF LITHOLOGIC INFORMATION
- EXTENT OF CROSS-SECTION
- PREDOMINANT GROUND WATER FLOW DIRECTION

NOTES:
2X VERTICAL EXAGGERATION.
ALL SOIL SAMPLE CONCENTRATIONS GIVEN IN MILLIGRAMS PER KILOGRAM (MG/KG).

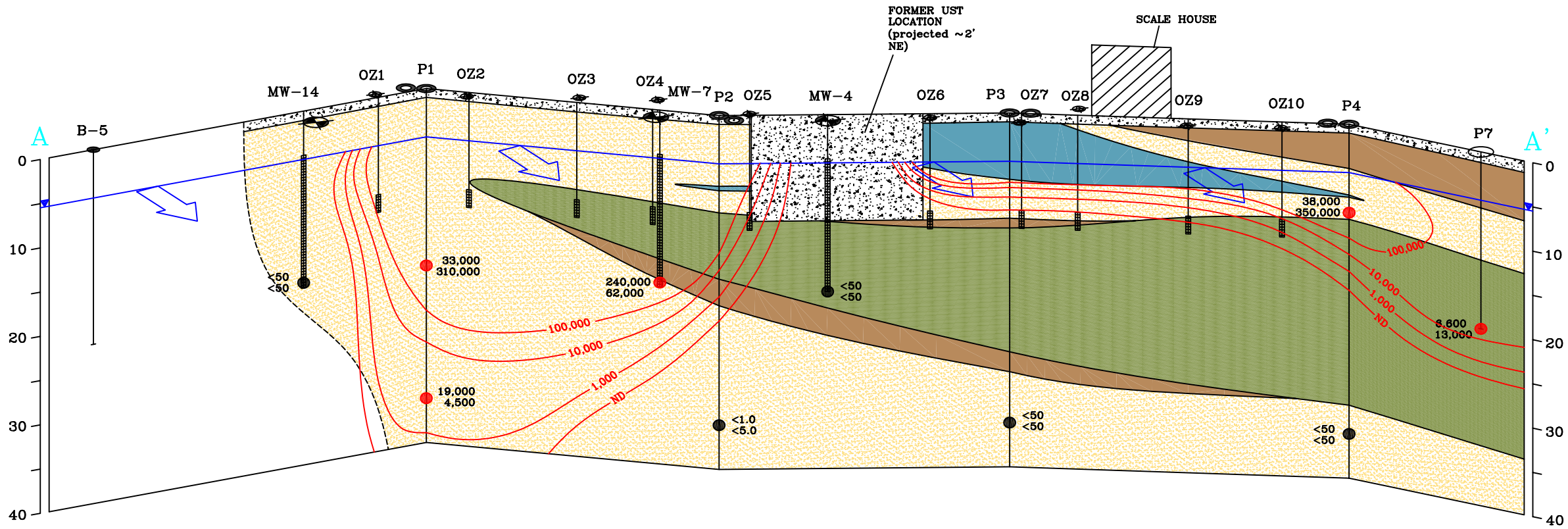
CROSS-SECTION A-A' WITH ADSORBED TPH
RINEHART - OAKLAND TRUCK STOP
1107 5TH STREET
OAKLAND, CALIFORNIA

Advanced GeoEnvironmental, Inc.
of Northern California

PROJECT NO. AGE-NC-03-1101 | FILE: OakAA0906 | FIGURE: 3
DATE: 02 NOVEMBER 2006 | DRAWN BY: MAC

EAST

WEST



LEGEND

- TOPSOIL/FILL MATERIAL
- SILTY CLAY, CLAY
- "BAY MUD:" PEAT, CLAYEY PEAT, PEATY CLAY, PEAT WITH SAND
- CLAYEY SAND/SANDY CLAY
- SAND, SILTY SAND

- HISTORICAL HIGH/LOW OR AVERAGE DEPTH TO GROUND WATER
- SCREEN INTERVAL OF WELL OR TEMPORARY WELL SCREEN LOCATION
- 12 / 51 — GROUND WATER SAMPLE LOCATION WITH: TPH-G CONCENTRATION, TPH-D CONCENTRATION
- EXTENT OF LITHOLOGIC INFORMATION
- EXTENT OF CROSS-SECTION
- PREDOMINANT GROUND WATER FLOW DIRECTION

NOTES:
2X VERTICAL EXAGGERATION.
MW-4, MW-7, MW-14 GROUND WATER SAMPLES COLLECTED 08-30-06.
ALL GROUND WATER SAMPLE CONCENTRATIONS GIVEN IN MICROGRAMS PER LITER (UG/L).

Advanced GeoEnvironmental, Inc.
of Northern California

PROJECT NO. AGE-NC-03-1101 | FILE: OakAA0906 | FIGURE: 4
DATE: 02 NOVEMBER 2006 | DRAWN BY: MAC

CROSS-SECTION A-A' WITH DISSOLVED TPH
RINEHART - OAKLAND TRUCK STOP
1107 5TH STREET
OAKLAND, CALIFORNIA

DISSOLVED TPH–G: 20' BSG
RINEHART – OAKLAND TRUCK STOP
1107 5TH STREET
OAKLAND, CALIFORNIA

Advanced GeoEnvironmental, Inc.
of Northern California

PROJECT NO. AGE–NC–03–1101 | FILE: OaklandTPH020 | FIGURE: 5
DATE: 02 NOVEMBER 2006 | DRAWN BY: MAC

BART District Right–of–Way

5th Street

Adeline Street

Chestnut Street

Property Line

Scale
Scale House
PUMP ISLAND
Former USTs
PUMP ISLAND Diesel
PUMP ISLAND Diesel and Gasoline
Main Building
Oliver's Hoffbrau

P7–20–W 6,600
P4–W
P6–20–W 130
P5–W
MW–8 6,000
P3–W
P2–W
MW–7 240,000
P1–W–20 33,000
MW–12 <50
MW–13 <50
MW–4 <50
MW–5 <50
MW–6 <50
MW–14 <50
MW–9 <50
MW–1 <50
MW–3N
MW–10
MW–11

LEGEND

- FORMER UNDERGROUND STORAGE TANK (UST) LOCATION
- EXISTING STRUCTURE
- MW–1 <50 — GROUND WATER MONITORING WELL LOCATION & DESIGNATION; TPH–G CONCENTRATION (micrograms per liter: ug/l)
- ? — QUERIED WHERE UNCERTAIN
- BORING LOCATION (JULY 2002)
- SOIL BORING/HYDROPUNCH BORING LOCATION (JULY 2006)
- OZONE SPARGE WELL LOCATION
- SEWER LINE

- TPH–g CONCENTRATION >100,000 ug/l
- TPH–g CONCENTRATION >10,000 ug/l
- TPH–g CONCENTRATION >1,000 ug/l
- TPH–g CONCENTRATION >100 ug/l
- TPH–g CONCENTRATION >50 ug/l

NOTES:
MW–1 THROUGH MW–14 GROUND WATER SAMPLES COLLECTED 30 AUGUST 2006.
P1 GRAB GROUND WATER SAMPLE COLLECTED 07 JULY 2006.
P6 & P7 GRAB GROUND WATER SAMPLES COLLECTED 18 JULY 2006.

N

SCALE
0 35 70
FEET

DISSOLVED TPH–G: 35' BSG
RINEHART – OAKLAND TRUCK STOP
1107 5TH STREET
OAKLAND, CALIFORNIA

Advanced GeoEnvironmental, Inc.
of Northern California

PROJECT NO. AGE–NC–03–1101 | FILE: OaklandTPH035 | FIGURE: 6
DATE: 02 NOVEMBER 2006 | DRAWN BY: MAC

BART District Right–of–Way

5th Street

Adeline Street

Chestnut Street

Property Line

MW–12
MW–13
MW–14
MW–1
MW–3N
MW–4
MW–5
MW–6
MW–7
MW–8
MW–9
MW–10
MW–11

P7 ?
P6 ?
P4–W–35 <50
P5–W–35 220
P3–W–35 <50
P2–W–35 <50
P1–W–35 19,000 ?

Scale
Scale House
PUMP ISLAND
Former USTs
PUMP ISLAND
PUMP ISLAND Diesel
PUMP ISLAND Diesel and Gasoline
Main Building
Oliver's Hoffbrau

LEGEND

- FORMER UNDERGROUND STORAGE TANK (UST) LOCATION
- EXISTING STRUCTURE
- MW–1 <50 — GROUND WATER MONITORING WELL LOCATION & DESIGNATION TPH–G CONCENTRATION (micrograms per liter: ug/l)
- ? — QUERIED WHERE UNCERTAIN
- BORING LOCATION (JULY 2002)
- SOIL BORING/HYDROPUNCH BORING LOCATION (JULY 2006)
- OZONE SPARGE WELL LOCATION
- SEWER LINE

- TPH–g CONCENTRATION >10,000 ug/l
- TPH–g CONCENTRATION >1,000 ug/l
- TPH–g CONCENTRATION >100 ug/l
- TPH–g CONCENTRATION >50 ug/l

NOTES:
P1 THROUGH P5 GRAB GROUND WATER SAMPLE COLLECTED 06–07 JULY 2006.

N

SCALE
0 35 70
FEET

DISSOLVED TPH–D: 20' BSG
RINEHART – OAKLAND TRUCK STOP
1107 5TH STREET
OAKLAND, CALIFORNIA

Advanced GeoEnvironmental, Inc.
of Northern California

PROJECT NO. AGE–NC–03–1101 | FILE: OaklandTPHD20 | FIGURE: 7
DATE: 02 NOVEMBER 2006 | DRAWN BY: MAC

BART District Right–of–Way

5th Street

Adeline Street

Chestnut Street

Property Line

Main Building

Oliver's Hoffbrau

Scale

Scale House

PUMP ISLAND

Former USTs

PUMP ISLAND Diesel

PUMP ISLAND Diesel and Gasoline

P7–20–W 13,000

P4–W

MW–8 6,200

P3–W

MW–4 <50

MW–7 62,000

P2–W

MW–12 <50

MW–13 <50

MW–14 <50

MW–6 <50

MW–5 <50

P6–20–W <50

P5–W

MW–9 <50

MW–1 <50

P1–W–20 310,000

MW–3N

MW–10

MW–11

?

LEGEND

- FORMER UNDERGROUND STORAGE TANK (UST) LOCATION
- EXISTING STRUCTURE
- MW–1 <50 — GROUND WATER MONITORING WELL LOCATION & DESIGNATION TPH–D CONCENTRATION (micrograms per liter: ug/l)
- ? — QUERIED WHERE UNCERTAIN
- SOIL BORING/HYDROPUNCH BORING LOCATION (JULY 2006)
- BORING LOCATION (JULY 2002)
- OZONE SPARGE WELL LOCATION
- SEWER LINE

- TPH–d CONCENTRATION >100,000 ug/l
- TPH–d CONCENTRATION >10,000 ug/l
- TPH–d CONCENTRATION >1,000 ug/l
- TPH–d CONCENTRATION >100 ug/l
- TPH–d CONCENTRATION >50 ug/l

NOTES:
MW–1 THROUGH MW–14 GROUND WATER SAMPLES COLLECTED 30 AUGUST 2006.
P1 GRAB GROUND WATER SAMPLE COLLECTED 07 JULY 2006.
P6 & P7 GRAB GROUND WATER SAMPLES COLLECTED 18 JULY 2006.

N

SCALE
0 35 70
FEET

DISSOLVED TPH–D: 35' BSG
RINEHART – OAKLAND TRUCK STOP
1107 5TH STREET
OAKLAND, CALIFORNIA

Advanced GeoEnvironmental, Inc.
of Northern California

PROJECT NO. AGE–NC–03–1101 | FILE: OaklandTPHD35 | FIGURE: 8
DATE: 02 NOVEMBER 2006 | DRAWN BY: MAC

BART District Right–of–Way
5th Street
Adeline Street
Chestnut Street
Property Line
Scale
Scale House
PUMP ISLAND
Former USTs
PUMP ISLAND Diesel
PUMP ISLAND Diesel and Gasoline
Main Building
Oliver's Hoffbrau
P1–W–35 4,500
P2–W–35 <50
P3–W–35 <50
P4–W–35 <50
P5–W–35 <50
P6
P7
MW–1
MW–3N
MW–4
MW–5
MW–6
MW–7
MW–8
MW–9
MW–10
MW–11
MW–12
MW–13
MW–14

LEGEND

- FORMER UNDERGROUND STORAGE TANK (UST) LOCATION
- EXISTING STRUCTURE
- MW–1 <50 — GROUND WATER MONITORING WELL LOCATION & DESIGNATION TPH–D CONCENTRATION (micrograms per liter: ug/l)
- ? — QUERIED WHERE UNCERTAIN
- SOIL BORING/HYDROPUNCH BORING LOCATION (JULY 2006)
- BORING LOCATION (JULY 2002)
- OZONE SPARGE WELL LOCATION
- SEWER LINE

- TPH–d CONCENTRATION >1,000 ug/l
- TPH–d CONCENTRATION >100 ug/l
- TPH–d CONCENTRATION >50 ug/l

NOTES:
P1 THROUGH P5 GRAB GROUND WATER SAMPLE COLLECTED 06–07 JULY 2006.

N
SCALE
0 35 70
FEET

DISSOLVED MTBE: 20' BSG
RINEHART – OAKLAND TRUCK STOP
1107 5TH STREET
OAKLAND, CALIFORNIA

Advanced GeoEnvironmental, Inc.
of Northern California

PROJECT NO. AGE-NC-03-1101 | FILE: Oakland5THSTR20 | FIGURE: 9
DATE: 02 NOVEMBER 2006 | DRAWN BY: MAC

BART District Right-of-Way

5th Street

Adeline Street

Chestnut Street

Property Line

Scale

Scale House

Former USTs

Main Building

Oliver's Hoffbrau

PUMP ISLAND

PUMP ISLAND Diesel

PUMP ISLAND Diesel and Gasoline

MW-1 7.0
MW-3N
MW-4 7.7
MW-5 <1.0
MW-6 <1.0
MW-7 3,600
MW-8 <1.0
MW-9 <1.0
MW-10
MW-11
MW-12 <1.0
MW-13 <1.0
MW-14 <1.0
P1-W-20 11,000
P2-W
P3-W
P4-W
P5-W
P6-20-W 4.1
P7-20-W 36

LEGEND

FORMER UNDERGROUND STORAGE TANK (UST) LOCATION

EXISTING STRUCTURE

MW-1 7.0 GROUND WATER MONITORING WELL LOCATION & DESIGNATION MTBE CONCENTRATION (micrograms per liter: ug/l)

? QUERIED WHERE UNCERTAIN

BORING LOCATION (JULY 2002)

SOIL BORING/HYDROPUNCH BORING LOCATION (JULY 2006)

OZONE SPARGE WELL LOCATION

SEWER LINE

MTBE CONCENTRATION >10,000 ug/l

MTBE CONCENTRATION >1,000 ug/l

MTBE CONCENTRATION >100 ug/l

MTBE CONCENTRATION >1.0 ug/l

NOTES:
MW-1 THROUGH MW-14 GROUND WATER SAMPLES COLLECTED 30 AUGUST 2006.
P1 GRAB GROUND WATER SAMPLE COLLECTED 07 JULY 2006.
P6 & P7 GRAB GROUND WATER SAMPLES COLLECTED 18 JULY 2006.

N

SCALE
0 35 70
FEET

BART District Right-of-Way

5th Street

Adeline Street

Chestnut Street

Property Line

MW-12

MW-13

P7
?

P4-W-35
<1.0

Scale

Scale House

MW-8

P3-W-35
<1.0

P2-W-35
<1.0

MW-4

MW-7

P6
?

PUMP ISLAND

P5-W-35
180

MW-5

Former USTs

MW-6

MW-14

MW-9

MW-1

PUMP ISLAND Diesel

Main Building

?

P1-W-35
9,200

Oliver's Hoffbrau

PUMP ISLAND Diesel and Gasoline

MW-3N

MW-10

MW-11

LEGEND

LEGEND

- FORMER UNDERGROUND STORAGE TANK (UST) LOCATION
- EXISTING STRUCTURE
- MW-1 7.0 — GROUND WATER MONITORING WELL LOCATION & DESIGNATION MTBE CONCENTRATION (micrograms per liter: ug/l)
- ? — QUERIED WHERE UNCERTAIN
- BORING LOCATION (JULY 2002)
- SOIL BORING/HYDROPUNCH BORING LOCATION (JULY 2006)
- OZONE SPARGE WELL LOCATION
- SEWER LINE

- MTBE CONCENTRATION >1,000 ug/l
- MTBE CONCENTRATION >100 ug/l
- MTBE CONCENTRATION >1.0 ug/l

NOTES:
P1 THROUGH P5 GRAB GROUND WATER SAMPLE COLLECTED 06-07 JULY 2006.

N

SCALE
0 35 70
FEET

Advanced GeoEnvironmental, Inc.
of Northern California

PROJECT NO. AGE-NC-03-1101 | FILE: oaklandMTBE35 | FIGURE: 10
DATE: 02 NOVEMBER 2006 | DRAWN BY: MAC

MTBE: 35' BSG
DISSOLVED
RINEHART - OAKLAND TRUCK STOP
1107 5TH STREET
OAKLAND, CALIFORNIA

TABLES

Table 1

ANALYTICAL RESULTS OF SOIL & GRAB GROUND WATER SAMPLES
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California

Sample I.D.	Date	EPA 8015M		EPA 8260B										
		TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
Soil Samples (mg/kg)														
P1-6	07-05-06	**210**	**7,600**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.1	<1	<0.05	<0.05
P1-14	07-05-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P1-21	07-05-06	**2.6**	<5	**0.014**	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P1-30	07-05-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P1-40	07-05-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P2-8	07-05-06	**110**	**680**	<0.05	**0.22**	**0.62**	**4.2**	<0.05	<0.1	<0.1	<0.1	<1	<0.05	<0.05
P2-15	07-05-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P2-20	07-05-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P2-24	07-05-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P2-34	07-05-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P2-40	07-05-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P3-8	07-06-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P3-17	07-06-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P3-25	07-06-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005

Table 1

ANALYTICAL RESULTS OF SOIL & GRAB GROUND WATER SAMPLES
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California

Sample I.D.	Date	EPA 8015M		EPA 8260B										
		TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
P3-35	07-06-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P3-40	07-06-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P4-7	07-06-06	**10**	**13,000**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.1	<1	<0.05	<0.05
P4-18	07-06-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P4-28	07-06-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P4-34	07-06-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P4-40	07-06-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P5-10	07-06-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P5-20	07-06-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P5-30	07-06-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P5-40	07-06-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P6-8	07-18-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P6-12	07-18-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P6-20	07-18-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P7-8	07-18-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005

Table 1

ANALYTICAL RESULTS OF SOIL & GRAB GROUND WATER SAMPLES
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California

Sample I.D.	Date	EPA 8015M		EPA 8260B										
		TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
P7-12	07-18-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
P7-20	07-18-06	<1	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.005	<0.005
Grab Ground Water Samples (µg/l)														
P1-W-20	07-07-06	**33,000**	**310,000**	**110**	<0.5	**2.3**	**17.3**	**11,000**	<1	<1	**17**	<10	**4.7**	<0.5
P1-W-35	07-07-06	**19,000**	**4,500**	**63**	<0.5	**13**	**10.5**	**9,200**	<1	<1	**16**	<10	**3.4**	<0.5
P2-W-35	07-07-06	<50	<50	<0.5	<0.5	<0.5	<0.6	<1	<1	<1	<1	<10	<0.5	<0.5
P3-W-35	07-07-06	<50	<50	<0.5	<0.5	<0.5	<0.6	<1	<1	<1	<1	<10	<0.5	<0.5
P4-W-10	07-07-06	**38,000**	**350,000**	<0.5	<0.5	<0.5	<0.6	**4,000**	<1	<1	**5.3**	<10	<0.5	<0.5
P4-W-35	07-07-06	<50	<50	<0.5	<0.5	<0.5	<0.6	<1	<1	<1	<1	<10	<0.5	<0.5
P5-W-10	07-06-06	**2,000**	<50	**32**	**36**	<0.5	<0.6	**950**	<1	<1	**3.4**	<10	<0.5	<0.5
P5-W-35	07-06-06	**220**	<50	**3.4**	<0.5	<0.5	<0.6	**180**	<1	<1	<1	<10	<0.5	<0.5
P6-20-W	07-18-06	**130**	<50	**2.3**	**5.6**	<0.5	<0.6	**4.1**	<1	<1	<1	<10	<0.5	<0.5
P7-20-W	07-18-06	**6,600**	**13,000**	<0.5	<0.5	<0.5	<0.6	**36**	<1	<1	<1	<10	<0.5	<0.5

Notes:

mg/kg: milligrams per kilogram
µg/l: micrograms per liter
TPH-g: total petroleum hydrocarbons quantified as gasoline
TPH-d: total petroleum hydrocarbons quantified as diesel
MTBE: methyl tertiary-butyl ether
DIPE: di-isopropyl ether
ETBE: ethyl tertiary-butyl ether
TAME: tertiary-amyl methyl ether
TBA: tertiary-butyl alcohol
1,2-DCA: 1,2-dichloroethane
EDB: 1,2-dibromoethane

APPENDIX A

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

June 30, 2005

Reed Rinehart
Rinehart Oil, Inc.
2401 North State Street
Ukiah, CA 95482

Subject: Fuel Leak Case No. RO0000234, Rino Pacific/Oakland Truck Stop, 1107 5th Street, Oakland, CA

Dear Mr. Rinehart:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the subject site and the report entitled, "Quarterly Report –Fourth Quarter 2004," dated February 16, 2005, prepared on behalf of Rinehart Oil, Inc. by Advanced GeoEnvironmental, Inc. We are concerned with the high concentrations of petroleum hydrocarbons and fuel oxygenates that continue to be detected in groundwater samples collected quarterly at the site. In addition, an interim remediation system utilizing ozone sparging was approved for the above referenced site in correspondence from this office dated March 4, 2003. To date, we have not received any reports to indicate that installation of this system is complete and whether this system is operating.

Based on ACEH staff review of the documents referenced above, we request that you address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

1. **Interim Remediation System.** An interim remediation system utilizing ozone sparging was approved for your site in correspondence from this office dated March 4, 2003. Please provide information on the operation and monitoring of this system in the Interim Remediation System Report requested below.

2. **Free Product Delineation.** The extent of free product has not been sufficiently defined for the site. Free product has been observed in boring E-5 and in monitoring wells MW-7 and MW-8. The static water level is above the top of the screened interval in many existing monitoring wells at the site. Because the screened intervals for many of the existing wells are below the water table, free product, if present, may not be able to enter the wells. Please propose an investigation in the Work Plan requested below to delineate the extent of free product at the site. This investigation may include laser-induced fluorescence data from cone penetrometer borings, soil sampling, groundwater sampling, and/or monitoring wells screened across the top of the water table.

3. **Off-Site Extent of Plume.** The off-site extent of petroleum hydrocarbons and fuel oxygenates in groundwater has not been defined in the area west and northwest of well MW-8. Please provide a plan to complete this characterization in the Work Plan requested below.

We request that you immediately pursue off-site access agreements that you will need to complete your investigation activities.

4. **Vertical Delineation.** The vertical extent of soil and groundwater contamination has not been sufficiently defined for this site. Only two soil samples have been collected bgelow a depth of 12.5 feet below grade (bg). No depth-discrete groundwater samples have been collected. Please provide a plan to characterize the vertical extent of soil and groundwater contamination at the site in the Work Plan requested below.

5. **Preferential Pathways.** During 2002, eight soil borings were completed along utility corridors beneath 5th Street and Chestnut Street. High concentrations of total petroleum hydrocarbons and methyl tert butyl ether (MTBE) were detected in groundwater samples collected along 5th Street. Based on these results, additional borings are required to evaluate this utility corridor along 5th Steet. In addition, the potential for utilities along Adeline Street to act as preferential pathways must also be evaluated. Please present plans for further evaluation of preferential pathways along 5th Street and Adeline Street in the Work Plan requested below.

6. **Hydraulic Gradient.** A groundwater mound in the area of well MW-10 appears to be an anomalous feature for this site. The origin of this groundwater mound, such as a leaking water line, and its effect on the hydraulic gradient and contaminant transport for the site is to be evaluated. Water lines or other potential sources of discharge near well MW-10 are to be located and plotted on a map. Groundwater from well MW-10 is to be analyzed for trihalomethanes during one quarterly groundwater monitoring event to help assess whether water treatment byproducts are present in shallow groundwater in this area. Please present these results in the Quarterly Monitoring Report for the Third Quarter 2005 requested below.

7. **Well MW-11**. The boring log for well MW-11 indicated that the boring extended to a depth of 28 bg but the well was constructed to a depth of 12 feet bg. The log does not indicate if the well was constructed in the same boring and if so, how the boring was backfilled to a depth of 12 feet bg.

8. **Sparge Wells.** One boring log is shown to represent all sparge wells at the site. Please confirm that all sparge wells at the site were constructed identically to the well construction diagram shown in Appendix B or present separate boring logs or a table that shows variations in the as-built well construction details. The text in section 2.1.4 indicates that the filter packs for sparge wells extend from 9 to 13 feet bg but the diagram in Appendix B indicates that the filter pack extends to a depth of 15 feet bg. Please address this discrepancy in the Interim Remediation Report requested below.

9. **Site Conceptual Model.** The development of a Site Conceptual Model (SCM) for this site is encouraged in order to provide a framework for understanding the site conditions affecting the fate and transport of contaminants in the subsurface. A SCM is a set of working hypotheses pertaining to all aspects of the contaminant release, including site geology, hydrogeology, release history, residual and dissolved contamination, attenuation mechanisms, pathways to nearby receptors, and likely magnitude of potential impacts to receptors. The SCM is used to identify data gaps that are subsequently filled as the investigation proceeds. As the data gaps are filled, the working hypotheses are modified, and the overall SCM is refined and strengthened. Subsurface investigations continue until the SCM no longer changes as new

data are collected. At this point, the SCM is said to be "validated." The validated SCM then forms the foundation for developing the most cost-effective corrective action plan to protect existing and potential receptors.

When performed properly, the process of developing, refining and ultimately validating the SCM effectively guides the scope of the entire site investigation. We have identified, based on our review of existing data, some key data gaps in this letter and have described several tasks that we believe will provide important new data to refine the SCM. We request that your consultant develop a SCM for this site, identify data gaps, and propose specific supplemental tasks for future investigations. There may need to be additional phases of investigations, each building on the results of the prior work, to validate the SCM. Characterizing the site in this way will improve the efficiency of the work and limit its overall cost.

The SCM approach is endorsed by both industry and the regulatory community. Technical guidance for developing SCMs is presented in API's Publication No. 4699 and EPA's Publication No. EPA 510-B-97-001 both referenced above; and "Guidelines for Investigation and Cleanup of MTBE and Other Ether-Based Oxygenates, Appendix C," prepared by the State Water Resources Control Board, dated March 27, 2000.

The SCM for this project shall incorporate, but not be limited to, the following:

a) A concise narrative discussion of the regional geologic and hydrogeologic setting obtained from your background study. Include a list of technical references you reviewed, and copies (photocopies are sufficient) of regional geologic maps, groundwater contours, cross-sections, etc.

b) A concise discussion of the on-site and off-site geology, hydrogeology, release history, source zone, plume development and migration, attenuation mechanisms, preferential pathways, and potential threat to downgradient and above-ground receptors. Be sure to include the vapor pathway in your analysis. Maximize the use of large-scale graphics (e.g., maps, cross-sections, contour maps, etc.) and conceptual diagrams to illustrate key points. Include structural contour maps (top of unit) and isopach maps to describe the geology at your site.

c) Identification and listing of specific data gaps that require further investigation during subsequent phases of work.

d) Proposed activities to investigate and fill data gaps identified above.

e) The SCM shall include an analysis of the hydraulic flow system at and downgradient from the site. Include rose diagrams for groundwater gradients. The rose diagram shall be plotted on groundwater contour maps and updated in all future reports submitted for your site. Include an analysis of vertical hydraulic gradients. Note that these likely change due to seasonal precipitation and pumping.

f) Temporal changes in the plume location and concentrations are also a key element of the SCM. In addition to providing a measure of the magnitude of the problem, these data are often useful to confirm details of the flow system inferred from the hydraulic head

measurements. Include plots of the contaminant plumes on your maps, cross-sections, and diagrams.

g) Other contaminant release sites exist in the vicinity of your site. Hydrogeologic and contaminant data from those sites may prove helpful in testing certain hypotheses for your SCM. Include a summary of work and technical findings from nearby release sites and incorporate the findings from nearby site investigations into your SCM.

Report the information discussed above in your initial SCM and include it in the Work Plan requested below. Include updates to your SCM in the Soil and Groundwater Investigation Report requested below.

10. **Groundwater Monitoring.** Quarterly groundwater monitoring is required for this site. Please continue quarterly groundwater monitoring and submit the results in quarterly groundwater monitoring reports requested below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mr. Jerry Wickham), according to the following schedule:

- **August 15, 2005** – Quarterly Monitoring Report for the Second Quarter 2005
- **August 30, 2005** – Work Plan for Additional Investigation
- **August 30, 2005** – Interim Remediation System Report
- **November 15, 2005** - Quarterly Monitoring Report for the Third Quarter 2005
- **120 days following ACEH approval of Work Plan** – Soil and Groundwater Investigation Report
- **February 15, 2006** - Quarterly Monitoring Report for the Fourth Quarter 2005

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791.

Sincerely,

Jerry Wickham, P.G.
Hazardous Materials Specialist

cc: Jo'l Chapman
Advanced GeoEnvironmental, Inc.
837 Shaw Road
Stockton, CA 95215

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

APPENDIX B

Site Background Information
Rinehart Oil, Inc - Oakland Truck Stop
1107 5th Street, Oakland, California

BACKGROUND

The site is located at 1107 5th Street in a commercial and industrial area of west Oakland, California (Figure 1). The property contains a service station building, four fuel dispenser islands, a truck scale, scale house, and two underground storage tanks (USTs). The site has been operating as a truck stop for the past 40 years.

REGIONAL GEOLOGIC/HYDROGEOLOGIC SETTING

The site is situated within the Coast Range Geomorphic Province of California. This geopmorphic province contains coastal foothills and mountains and extends from the Tehachapi Mountains in the south to the Klamath Mountains in the north. The western and eastern boundaries of this province are comprised of the Pacific Ocean and the Great Valley Geomorphic Province, respectively.

The site is located in the Franciscan Complex, which is subdivided into four major divisions identified as the Northern Coast Range, the Franciscan Block, the Diablo Range, and the Nacimiento Block. The site is situated within the Franciscan Block, an assemblage of variably deformed and metamorphosed rock units. The surface is composed of Quaternary alluvium; at depth, the site is underlain by rocks of the Franciscan Complex, which are composed predominately of detrital sedimentary rocks with volcanic tuffs and deep ocean marine sediments. The Franciscan lithologies typically have low porosity and permeability.

Based upon the General Soil Map from the *Soil Survey of Alameda County, Western Part*, issued by the United States Department of Agriculture Soil Conservation Service in 1981, the site area is situated within the Urban Land-Danville complex. This complex is located on low terraces and alluvial fans at an elevation of about 20 feet to 300 feet above mean sea level (MSL), and consists of approximately 60% Urban Land, 30% Danville soil, and 10% other soils. Danville soil is a silty clay loam that formed in alluvium originating primarily from sedimentary rock; Urban land consists of areas covered by roads, parking lots, and buildings. The nearest surface water feature in the vicinity of the property is the Oakland Estuary, approximately 2,400 feet to the south of the property.

Beginning in October 1996, ground water monitoring has been conducted at the site to assess the seasonal variation of elevation, gradient, and flow direction, and to define the impact of petroleum hydrocarbon compounds and fuel oxygenating compounds in shallow ground water beneath the site. Based on data from previous monitoring events, ground water at the property varies seasonally between approximately 10 inches to 6 feet below surface grade (bsg). The ground water flow has varied from southwest to north. This may be affected by changing recharge and discharge patterns, as well as leaking pipes.

UNDERGROUND STORAGE TANK REMOVAL

In March 1999, two 10,000-gallon diesel USTs, one 10,000-gallon gasoline UST, and one 8,000-gallon gasoline UST were removed from the site. The approximate location of the former USTs is shown on Figure 2.

Interim remedial action was performed during the UST removal to address contaminated soil and ground water. Approximately 2,100 tons of contaminated soil were removed from the excavation. Soil samples were collected from the excavation and stockpiles as directed by the Fire Inspector. Contaminated ground water was removed from the excavation pit; approximately 33,000 gallons of water were pumped into temporary storage tanks, which were then transported and disposed off-site. Approximately 1,700 tons of backfill was placed in the excavation. Results of the soil samples taken during the excavation are not available.

PREVIOUS SITE ASSESSMENT ACTIVITIES

In November 1996, ground water monitoring wells MW-1 through MW-3 were installed to a depth of 20 feet bsg to assess contamination from an unauthorized release of fuel, which was repaired as soon as it was discovered. Product recovery sumps equipped with skimmers were installed in the wells and approximately 6 gallons of gasoline were recovered.

Monitoring well MW-2 was destroyed in January 1999. Additional monitoring wells MW-4 through MW-9 were installed to a total depth of 20 feet bsg in August 2000. Contamination was detected in each of the wells, and free product was occasionally evident in well MW-7.

Monitoring wells MW-10 and MW-11 were installed in May 2002 to a total depth of 12 feet bsg. At this time, well MW-3 was abandoned and well MW-3N was installed to a depth of 12 feet bsg.

In July 2002, eight soil borings were advanced on 5th Street and Chestnut Street to total depths between 5 feet and 8 feet bsg to determine if contamination was migrating off-site along preferential pathways (i.e. utility trenches). Sample results indicated high methyl tertiary-butyl ether (MTBE) concentrations that ranged from 170,000 micrograms per liter (µg/l) to 460,000 µg/l in grab ground water samples from borings drilled directly north of the site, along the 5th Street sewer line. Borings east of the site had little to no contamination.

In January 2003, a passive skimmer was placed inside monitoring well MW-7 to remove free product. During monitoring activities in April 2004, free-product was noted in MW-8. The passive skimmer in MW-7 was moved to MW-8 to remove the free product.

On 04 and 05 October 2004, a total of thirteen soil borings were advanced at the site. Boring MW14

and the ten ozone sparge well borings were advanced at the north edge of the property to vertical depths of 20 feet and 15 feet below surface grade (bsg), respectively. Borings MW12 and MW13 were advanced in the 5th Street right of way to the north of the property to a vertical depth of 20 feet bsg. Pilot borings MW12 through MW14 were completed as ground water monitoring wells using 2-inch diameter polyvinylchloride (PVC) casing with a 0.020-inch slotted screen installed from 5 feet to 20 feet bsg. The ozone sparge well soil borings were completed with manufacturer-assembled, 2-inch by 24-inch microporous sparge points and blank casing extended to the surface, with a filter pack (No. 2/12 Lonestar sand) installed from 9 feet to 13 feet bsg. A total of three soil samples, taken from the monitoring well pilot borings, were analyzed for petroleum hydrocarbon constituents. In sample MW14-10, 1.8 milligrams per kilogram (mg/kg) TPH-d and 2.0 mg/kg MTBE were detected.

To date, the vertical extent of petroleum hydrocarbon contamination is undefined at the site. The lateral extent of contamination is defined to the north by monitoring well MW-12, to the east by monitoring well MW-14, and to the south by monitoring well MW-10.

APPENDIX C

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

October 26, 2005

Reed Rinehart
Rinehart Oil, Inc.
2401 North State Street
Ukiah, CA 95482

Subject: Fuel Leak Case No. RO0000234, Rino Pacific/Oakland Truck Stop, 1107 5th Street, Oakland, CA

Dear Mr. Rinehart:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the subject site and the reports entitled, "Additional Site Assessment Work Plan," dated September 29, 2005, and "Interim Remediation System Report," also dated September 29, 2005. Both reports were prepared on behalf of Rinehart Oil, Inc. by Advanced GeoEnvironmental, Inc. The Work Plan presents plans to advance nine additional borings and install one groundwater monitoring well. The Interim Remediation System Report describes the installation of an ozone sparge system including 10 sparge wells. Initiation of the ozone sparge system was apparently delayed due to demolition activities at the site.

ACEH concurs with the proposed scope of work provided the technical comments included below are addressed. We request that you address the following technical comments, perform the proposed work, and send us the reports described below. Please provide 72-hour advance written notification to this office (e-mail preferred to jerry.wickham@acgov.org) prior to the start of field activities.

TECHNICAL COMMENTS

1. **Interim Remediation System.** Please initiate operation of the interim remediation system utilizing ozone sparging and provide information on the start-up operation and monitoring of this system in the Interim Remediation System Report requested below.

2. **Soil Boring Logs.** The Work Plan indicates that soils will be sampled at discrete 5-foot intervals. ACEH requests that soils be continuously sampled and logged to adequately describe the encountered soils. Please present the soil boring logs in the Subsurface Investigation Report requested below.

3. **Soil Analyses.** The Work Plan indicates that selected soil samples will be analyzed but does not define whether screening criteria will be applied in selecting soil samples for laboratory analyses. ACEH requests that soil samples be submitted for laboratory analyses for all depth intervals where staining, odor, or elevated PID readings are observed. If staining, odor, or elevated PID readings are observed over an interval of several feet, a sufficient number of soil samples from this interval should be submitted for laboratory analyses to characterize the fuel hydrocarbon concentrations within this interval. In addition, one soil sample collected

approximately two feet below the interval of observed staining, odor, or elevated PID readings should be submitted for laboratory analysis. One soil sample collected from the capillary fringe is to be submitted for laboratory analyses from each soil boring. If no staining, odor, or elevated PID readings are observed, please submit soil samples from minimum five-foot intervals for laboratory analyses. Please present the results in the Subsurface Investigation Report requested below.

4. **Grab Groundwater Samples.** The Work Plan proposes the collection of grab groundwater samples with a HydroPunch sampling device near the top of the groundwater table and the total depth of selected borings. Criteria for selecting borings are not defined in the Work Plan. ACEH concurs that grab groundwater samples are to be collected within 5 feet of the water table from each soil boring. ACEH requests that grab groundwater samples also be collected from intervals more than 5 feet below the water table in all of the proposed borings. Soils are to be continuously sampled and logged as discussed in technical comment 2 above. The soil boring logs are to be used to target coarse-grained layers below the water table for depth-discrete groundwater sampling. Each coarse-grained layer that may represent a significant contaminant migration pathway is to be targeted for depth-discrete groundwater sampling. Depth-discrete groundwater samples are to be collected in a boring(s) adjacent to the logged soil boring using techniques that will prevent cross-contamination of separate water-bearing zones and contamination of the depth-discrete groundwater sample by contaminated groundwater from a shallower interval. Please present the results in the Subsurface Investigation Report requested below.

5. **Monitoring Well Installation.** One monitoring well is proposed in 5th Street, northwest of the site. ACEH requests that an additional monitoring well be installed on the north side of 5th Street and east of existing well MW-13 in order to provide groundwater monitoring data northeast of the site. The screen intervals for these proposed monitoring wells are to be no greater than 10 feet in length. Please present the results in the Subsurface Investigation Report requested below.

6. **Surveying for Wells MW-12 through MW-14.** No casing elevations have been presented in previous reports for monitoring wells MW-12 through MW-14. Water level elevations from these wells have not been used to help evaluate the hydraulic gradient for the site. Given the apparent anomalous hydraulic gradient at the site, as was previously discussed in ACEH's June 30, 2005 correspondence, the incorporation of all water level data is necessary for the site. Please survey all existing and proposed wells as necessary to provide accurate water level elevations throughout the site. Please present the results, including a groundwater elevation contour map, in the Subsurface Investigation Report requested below.

7. **Comments from June 30, 2005 ACEH Correspondence.** Please review the technical comments from our June 30, 2005 correspondence to assure that each of the comments are addressed. Please present the results in the Subsurface Investigation Report requested below.

8. **Groundwater Monitoring.** Quarterly groundwater monitoring is required for this site. Please continue quarterly groundwater monitoring and submit the results in quarterly groundwater monitoring reports requested below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mr. Jerry Wickham), according to the following schedule:

- **November 15, 2005** - Quarterly Monitoring Report for the Third Quarter 2005
- **February 15, 2006** - Quarterly Monitoring Report for the Fourth Quarter 2005 and Interim Remediation System Report
- **March 15, 2006** – Soil and Groundwater Investigation Report
- **May 15, 2006** - Quarterly Monitoring Report for the First Quarter 2006

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) now request submission of reports in electronic form. The electronic copy is intended to replace the need for a paper copy and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all reports is required in Geotracker (in PDF format). Please visit the State Water Resources Control Board for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791.

Sincerely,

Jerry Wickham, P.G.
Hazardous Materials Specialist

cc: Jo'l Chapman
Advanced GeoEnvironmental, Inc.
837 Shaw Road
Stockton, CA 95215

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

APPENDIX D

Advanced
GeoEnvironmental, Inc.
837 Shaw Road, Stockton, CA 95215
(209) 467-1006 FAX: (209) 467-1118

BORING LOG

BOREHOLE NO.: **P1**

TOTAL DEPTH: **40'**

Project:	Rinehart - Oakland Truck Stop	Drilling Co.:	TestAmerica Drilling Corp.
Site Location:	1107 5th Street Oakland, California	Rig/Auger Type:	CME 55 w/ 8.25" HS augers
		Logged By:	Jo'l M. Chapman
		Reviewed By:	Bill Little
Project No.:	AGE-NC-03-1101	Date(s) Drilled:	05 July 2006

Notes:

▽ Water level during drilling
▼ Water level in completed well

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
0					TOPSOIL: Black, TOPSOIL; moist, gravelly, very strong hydrocarbon (HC) odor.
					SM: Dark gray, SILTY SAND; moist, appx. 10% silt, fine-grained/poorly graded sand, very strong HC odor.
-5					NO RECOVERY
	P1-6		31.5		SM: Black, SILTY SAND; moist, appx. 20% silt, trace gravel and brick debris, fine-grained/poorly graded sand, strong HC odor.
	P1-8				SM: Gray, SILTY SAND; moist, appx. 5% silt, fine-grained/poorly graded sand, strong HC odor.
-10					NO RECOVERY
	P1-11		468		SM: Gray, SILTY SAND; moist, appx. 5% silt, fine-grained/poorly graded sand, strong HC odor.
	P1-14				SM: Gray and dark orange mottled, SILTY SAND; moist, appx. 20% silt, fine-grained/poorly graded sand, strong HC odor.
-15 ▽					SM: Gray, orange, and brown mottled, SILTY SAND; saturated, appx. 5% silt, fine-grained/poorly graded sand, strong HC odor.
	P1-17		36.5		SM: Gray and dark orange mottled, SILTY SAND; moist, appx. 20% silt, fine-grained/poorly graded sand, strong HC odor.
					SM: Gray, orange, and brown mottled, SILTY SAND; saturated, appx. 5% silt, fine-grained/poorly graded sand, strong HC odor.

Advanced
GeoEnvironmental, Inc.
837 Shaw Road, Stockton, CA 95215
(209) 467-1006 FAX: (209) 467-1118

BORING LOG

BOREHOLE NO.: **P1**

TOTAL DEPTH: **40'**

Project: Rinehart - Oakland Truck Stop

Project No.: AGE-NC-03-1101

Date(s) Drilled: 05 July 2006

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
-20	P1-20				NO RECOVERY
	P1-21		6.7		SM: Light brown, SILTY SAND; saturated (soupy), appx. 5% silt, fine-grained/poorly graded sand, HC odor.
					SM: Gray, SILTY SAND; very moist, appx. 5% silt, fine-grained/poorly graded sand, HC odor.
	P1-23		0.5		SM: Orange-brown, SILTY SAND; moist, appx. 5% silt, fine-grained/poorly graded sand, slight HC odor.
					SM: Light brown, SILTY SAND; saturated, appx. 5% silt, fine-grained/poorly graded sand, slight HC odor.
-25	P1-25				SM: Orange-brown, SILTY SAND; saturated, appx. 5% silt, fine-grained/poorly graded sand, very slight HC odor.
					NO RECOVERY
					SM: Orange-brown, SILTY SAND; saturated, appx. 5% silt, fine-grained/poorly graded sand, very slight HC odor.
					SM: Orange-brown, SILTY SAND; saturated, appx. 5% silt, fine-grained/poorly graded sand, very slight HC odor.
-30	P1-30		0.9		NO RECOVERY
	P1-34		1.4		SM: Orange-brown, SILTY SAND; saturated, appx. 5% silt, fine-grained/poorly graded sand, very slight HC odor.
-35					SM: Orange-brown, SILTY SAND; saturaged, appx. 5% silt, fine-grained/poorly graded sand, no HC odor.
-40	P1-40		0		

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(209) 467-1006 FAX: (209) 467-1118

BORING LOG

BOREHOLE NO.: **P2**

TOTAL DEPTH: **40'**

Project:	Rinehart - Oakland Truck Stop	Drilling Co.:	TestAmerica Drilling Corp.
Site Location:	1107 5th Street Oakland, California	Rig/Auger Type:	CME 55 w/ 8.25" HS augers
		Logged By:	Jo'l M. Chapman
		Reviewed By:	Bill Little
Project No.:	AGE-NC-03-1101	Date(s) Drilled:	05 July 2006

Notes:

▽ Water level during drilling
▼ Water level in completed well

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
0					TOPSOIL: Black, TOPSOIL; moist, gravelly, very strong hydrocarbon (HC) odor.
					SM: Dark gray, SILTY SAND; moist, appx. 10% silt, fine-grained/poorly graded sand, very strong HC odor.
-5					NO RECOVERY
					SM: Dark brown, SILTY SAND; moist, appx. 5% silt, fine-grained/poorly graded sand, very strong HC odor.
	P2-8				CL: Dark brown, SANDY CLAY; moist, appx. 25% sand, high plasticity, high consistency, high toughness, fine-grained/poorly graded sand, strong HC odor.
					SM: Dark brown, SILTY SAND; moist, appx. 5% silt, fine-grained/poorly graded sand, very strong HC odor.
-10	P2-10		963		NO RECOVERY
	P2-11		67		PEAT WITH CLAY: Dark gray, CLAYEY PEAT; very moist, appx. 20% clay, moderate plasticity, moderate consistency, low toughness, fibrous, strong decay odor, strong HC odor.
-15 ▽	P2-15				PEAT WITH SAND: Dark gray, SANDY PEAT; saturated, appx. 10% sand, fine-grained/poorly graded sand, fibrous, strong HC odor.
	P2-16		12.5		Pt: Black, PEAT; saturated, fibrous, strong decay odor, strong HC odor.
					SC: Gray, CLAYEY SAND; saturated, appx. 20% clay, moderate plasticity, moderate consistency, moderate toughness, fine-grained/poorly graded sand, HC odor.
-20					

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BORING LOG

BOREHOLE NO.: **P2**

TOTAL DEPTH: **40'**

Project: Rinehart - Oakland Truck Stop

Project No.: AGE-NC-03-1101

Date(s) Drilled: 05 July 2006

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
-20	P2-20		0		
					SM: Orange-brown, SILTY SAND; saturated, appx. 5% silt, fine-grained/poorly graded sand, very slight HC odor.
	P2-24		0		
-25					NO RECOVERY
					SP: Light brown, SAND; saturated, fine-grained/poorly graded, no HC odor.
-30	P2-30		0		NO RECOVERY
					SP: Light brown, SAND; saturated, fine-grained/poorly graded, no HC odor.
	P2-34				
-35					NO RECOVERY
					SP: Light brown, SAND; saturated, fine-grained/poorly graded, no HC odor.
-40	P2-39		0		

Advanced
GeoEnvironmental, Inc.
837 Shaw Road, Stockton, CA 95215
(209) 467-1006 FAX: (209) 467-1118

BORING LOG

BOREHOLE NO.: **P3**

TOTAL DEPTH: **40'**

Project:	Rinehart - Oakland Truck Stop	Drilling Co.:	TestAmerica Drilling Corp.
Site Location:	1107 5th Street Oakland, California	Rig/Auger Type:	CME 55 w/ 8.25" HS augers
		Logged By:	Jo'l M. Chapman
		Reviewed By:	Bill Little
Project No.:	AGE-NC-03-1101	Date(s) Drilled:	06 July 2006

Notes:

▽ Water level during drilling
▼ Water level in completed well

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
0					TOPSOIL: Black, TOPSOIL; moist, gravelly, very strong hydrocarbon (HC) odor.
					CL: Gray, SILTY CLAY; moist, HC staining, moderate plasticity, moderate consistency, moderate toughness, very strong HC odor.
-5					NO RECOVERY
	P3-8		238		CL: Gray and brown, SANDY CLAY; moist, appx. 10% sand, moderate plasticity, moderate consistency, moderate toughness, strong HC odor.
					SM: Gray and brown, SILTY SAND; very moist, appx. 10% silt, fine-grained/poorly graded sand, strong HC odor.
-10					NO RECOVERY
	P3-12		70		SM: Dark brown, SILTY SAND; very moist, appx. 5% silt, fine-grained/poorly graded sand, HC odor.
					PEAT WITH CLAY: Black, CLAYEY PEAT; moist, appx. 20% clay, high plasticity, moderate consistency, low toughness, fibrous, strong decay odor, HC odor.
					PEAT WITH CLAY: Brown, CLAYEY PEAT; moist, appx. 10% clay, high plasticity, moderate consistency, low toughness, fibrous, strong decay odor, HC odor.
-15					PEAT WITH CLAY: Brown, CLAYEY PEAT; moist, appx. 10% clay, high plasticity, moderate consistency, low toughness, fibrous, strong decay odor, HC odor.
	P3-17		24		

Advanced
GeoEnvironmental, Inc.
837 Shaw Road, Stockton, CA 95215
(209) 467-1006 FAX: (209) 467-1118

BORING LOG

BOREHOLE NO.: **P3**

TOTAL DEPTH: **40'**

Project: Rinehart - Oakland Truck Stop

Project No.: AGE-NC-03-1101

Date(s) Drilled: 06 July 2006

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
-20					
	P3-21				PEAT WITH CLAY: Black and orange, CLAYEY PEAT; moist, appx. 5% clay, fibrous, very strong decay odor, HC odor.
-25	P3-25		4.0		PEAT WITH CLAY: Black and orange, CLAYEY PEAT; moist, appx. 5% clay, fibrous, very strong decay odor, HC odor.
▽					
	P3-28		0.6		SC: Black, SANDY CLAY; saturated, appx. 30% sand, moderate plasticity, low consistency, low toughness, fine-grained/poorly graded sand, decay odor, no HC odor.
-30					SP: Black and gray, SAND; saturated, appx. 10% organic debris, fine-grained/poorly graded sand, slight decay odor, no HC odor.
	P3-31				SM: Gray, SILTY SAND; very moist, appx. 5% silt, fine-grained/poorly graded sand, no HC odor.
					SM: Light brown, SILTY SAND; saturated, appx. 5% silt, fine-grained/poorly graded sand, no HC odor.
-35	P3-35		0		NO RECOVERY
					SM: Light brown, SILTY SAND; saturated, appx. 5% silt, fine-grained/poorly graded sand, no HC odor.
-40	P3-40		0		

Advanced
GeoEnvironmental, Inc.
837 Shaw Road, Stockton, CA 95215
(209) 467-1006 FAX: (209) 467-1118

BORING LOG

BOREHOLE NO.: **P4**

TOTAL DEPTH: **40'**

Project:	Rinehart - Oakland Truck Stop	Drilling Co.:	TestAmerica Drilling Corp.
Site Location:	1107 5th Street Oakland, California	Rig/Auger Type:	CME 55 w/ 8.25" HS augers
		Logged By:	Jo'l M. Chapman
		Reviewed By:	Bill Little
Project No.:	AGE-NC-03-1101	Date(s) Drilled:	06 July 2006

Notes:

▽ Water level during drilling
▼ Water level in completed well

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
0					TOPSOIL: Black, TOPSOIL; moist, gravelly, very strong hydrocarbon (HC) odor.
					CL: Gray, SANDY CLAY; moist, appx. 15% sand, moderate plasticity, moderate consistency, moderate toughness, strong HC odor.
-5					NO RECOVERY
▽	P4-7		112		SM: Gray, SILTY SAND; saturated, appx. 5% silt, fine-grained/poorly graded sand, strong HC odor.
					CL: Gray and brown, CLAY; moist, high plasticity, high consistency, high toughness, strong HC odor.
-10					SM: Brown, SILTY SAND; moist, appx. 5% silt, fine-grained/poorly graded sand, HC odor.
					PEAT WITH CLAY: Gray-brown, CLAYEY PEAT; moist, appx. 20% clay, moderate plasticity, low consistency, low toughness, fibrous, strong decay odor, HC odor.
	P4-13		28		
-15					
	P4-18		11		

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BORING LOG

BOREHOLE NO.: **P4**

TOTAL DEPTH: **40'**

Project: Rinehart - Oakland Truck Stop

Project No.: AGE-NC-03-1101

Date(s) Drilled: 06 July 2006

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
-20					
	P4-23		0.6		PEAT WITH CLAY: Black and orange, CLAYEY PEAT; moist to very moist, appx. 5% clay, fibrous, very strong decay odor, slight HC odor.
-25					
	P4-28		0		OH: Black, PEATY CLAY; moist to saturated, appx. 15% organic debris, trace sand, moderate plasticity, low consistency, low toughness, strong decay odor, slight HC odor.
-30					NO RECOVERY
					PEAT WITH CLAY: Black and orange, CLAYEY PEAT; moist to very moist, appx. 5% clay, fibrous, very strong decay odor, slight HC odor.
	P4-34		0		SM: Gray, SILTY SAND; saturated, appx. 5% silt, fine-grained/poorly graded sand, very slight HC odor.
-35					SM: Gray, SILTY SAND; saturated, appx. 5% silt, fine-grained/poorly graded sand, very slight HC odor.
	P4-36		0		SM: Light brown, SILTY SAND; saturated, appx. 5% silt, fine-grained/poorly graded sand, no HC odor.
-40	P4-40				

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BORING LOG

BOREHOLE NO.: **P5**

TOTAL DEPTH: **40'**

Project:	Rinehart - Oakland Truck Stop	Drilling Co.:	TestAmerica Drilling Corp.
Site Location:	1107 5th Street Oakland, California	Rig/Auger Type:	CME 55 w/ 8.25" HS augers
		Logged By:	Jo'l M. Chapman
		Reviewed By:	Bill Little
Project No.:	AGE-NC-03-1101	Date(s) Drilled:	06 July 2006

Notes:

▽ Water level during drilling
▼ Water level in completed well

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
0					TOPSOIL: Black, TOPSOIL; moist, gravelly, very strong hydrocarbon (HC) odor.
					CL: Light brown, SILTY CLAY; moist, HC staining, strong HC odor.
-5					NO RECOVERY
▽					OH: Black, PEATY CLAY; very moist, appx. 15% organic debris, moderate plasticity, low consistency, low toughness, very slight HC odor.
					SC: Dark gray and brown, CLAYEY SAND; very moist, appx. 5% clay, fine-grained/poorly graded sand, slight HC odor.
-10	P5-10		9.0		NO RECOVERY
					SC: Dark gray and brown, CLAYEY SAND; very moist, appx. 5% clay, fine-grained/poorly graded sand, slight HC odor.
-15	P5-15		0.5		PEAT WITH CLAY: Gray-brown, CLAYEY PEAT; moist to very moist, appx. 30% clay, high plasticity, low consistency, low toughness, trace fine sand, fibrous, strong decay odor, very slight HC odor (?).

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BORING LOG

BOREHOLE NO.: **P5**

TOTAL DEPTH: **40'**

Project: Rinehart - Oakland Truck Stop

Project No.: AGE-NC-03-1101

Date(s) Drilled: 06 July 2006

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
-20	P5-20		0		
					PEAT WITH CLAY: Black and orange, CLAYEY PEAT; moist, appx. 5% clay, fibrous, strong decay odor, no HC odor.
-25	P5-25		0		
	P5-27				OH: Black, PEATY CLAY; moist, appx. 25% organic debris, low plasticity, low consistency, low toughness, strong decay odor, no HC odor.
					OH: Black, PEATY CLAY; moist, appx. 10% organic debris, low plasticity, low consistency, low toughness, strong decay odor, no HC odor.
-30	P5-30		0		
					SM: Gray, SILTY SAND; very moist, appx. 5% silt, fine-grained/poorly graded sand, no HC odor.
-35	P5-35		0		NO RECOVERY
					SM: Gray, SILTY SAND; very moist, appx. 5% silt, fine-grained/poorly graded sand, no HC odor.
-40	P5-40		0		

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BORING LOG

BOREHOLE NO.: **P6**

TOTAL DEPTH: **20'**

Project:	Rinehart - Oakland Truck Stop	Drilling Co.:	Enviroprobe
Site Location:	1107 5th Street Oakland, California	Rig/Auger Type:	Geoprobe 5400 w/ 1.25" rods
		Logged By:	Jo'l M. Chapman
		Reviewed By:	
Project No.:	AGE-NC-03-1101	Date(s) Drilled:	18 July 2006

Notes:

▽ Water level during drilling
▼ Water level in completed well

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
0					
					NO RECOVERY
-5					CL: Dark brown, SANDY CLAY; moist to saturated, appx. 10% fine-grained/poorly graded sand, moderate plasticity, low consistency, low toughness, no hydrocarbon (HC) odor.
					PT: Black, PEAT; moist, fibrous debris, no HC odor.
	P6-8		0		SM: Gray-green, SILTY SAND; v. moist, appx. 25% silt, fine-grained/poorly graded sand, no HC odor.
					NO RECOVERY
-10					SM: Gray-green, SILTY SAND; v. moist, appx. 25% silt, fine-grained/poorly graded sand, no HC odor.
	P6-12		0		NO RECOVERY
					SM: Gray-green, SILTY SAND; v. moist, appx. 25% silt, fine-grained/poorly graded sand, no HC odor.
-15					PEAT WITH CLAY: Gray, CLAYEY PEAT; saturated, appx. 25% clay, low plasticity, low consistency, low toughness, trace fine sand, strong decay odor, no HC odor.
	P6-16		0		NO RECOVERY
					SM: Gray-green, SILTY SAND; v. moist, appx. 25% silt, fine-grained/poorly graded sand, no HC odor.
-20 ▽	P6-20		0		PEAT WITH CLAY: Gray, CLAYEY PEAT; saturated, appx. 25% clay, low plasticity, low consistency, low toughness, trace fine sand, strong decay odor, no HC odor.
-25					

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BORING LOG

BOREHOLE NO.: **P7**

TOTAL DEPTH: **20'**

Project:	Rinehart - Oakland Truck Stop	Drilling Co.:	Enviroprobe
Site Location:	1107 5th Street Oakland, California	Rig/Auger Type:	Geoprobe 5400 w/ 1.25" rods
		Logged By:	Jo'l M. Chapman
		Reviewed By:	
Project No.:	AGE-NC-03-1101	Date(s) Drilled:	18 July 2006

Notes:

▽ Water level during drilling
▼ Water level in completed well

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
0					
▽					NO RECOVERY
-5					CL: Black, SANDY CLAY; saturated, appx. 10% fine-grained/poorly graded sand, moderate plasticity, low consistency, low toughness, slight hydrocarbon (HC) odor.
					SM: Gray-green, SILTY SAND; saturated, appx. 25% silt, fine-grained/poorly graded sand, slight HC odor.
	P7-8		680		NO RECOVERY
-10					SM: Gray-green, SILTY SAND; saturated, appx. 25% silt, fine-grained/poorly graded sand, slight HC odor.
	P7-12		0		NO RECOVERY
					PEAT WITH CLAY: Gray, CLAYEY PEAT; saturated, appx. 25% clay, low plasticity, low consistency, low toughness, trace fine sand, strong decay odor, no HC odor.
-15	P7-16		0		NO RECOVERY
					PEAT WITH CLAY: Gray, CLAYEY PEAT; saturated, appx. 25% clay, low plasticity, low consistency, low toughness, trace fine sand, strong decay odor, no HC odor.
					PT: Black, PEAT; moist, fibrous debris, strong decay odor, no HC odor.
-20	P7-20		0		
-25					

APPENDIX E

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

ANALYTICAL RESULTS*

CTEL Project No: CT214-0607041
Client Name: Advanced Geo Environmental, Inc.
837 Shaw Road
Stockton, CA 95215
Phone:(209) 467-1006
Fax: (209) 467-1118
Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Date Sampled: 07/05/06 @ 13:25 p.m.
Matrix: Soil
Date Received: 07/11/06 @ 09:00 am
Date Analyzed 07/11/06 – 07/13/06

Laboratory ID:	0606-041-1	0606-041-4	0606-041-7	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	P1-6	P1-14	P1-21			
Dilution	10-200	1	1			
TPH - Gasoline	210	ND	2.6	EPA 8015M	mg/Kg	1
TPII – Diesel	7600	ND	ND	EPA 8015M	mg/Kg	5
VOC, 8260B						
Dilution	10	1	1			
Methyl-tert-butyl-ether(MtBE)	ND<0.05	ND	ND	SW846 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND<1	ND	ND	SW846 8260B	mg/Kg	0.10
Diisopropyl Ether (DIPE)	ND<0.1	ND	ND	SW846 8260B	mg/Kg	0.01
Ethyl-t-butyl ether (ETBE)	ND<0.1	ND	ND	SW846 8260B	mg/Kg	0.01
t-Amyl Methyl Ether (TAME)	ND<0.1	ND	ND	SW846 8260B	mg/Kg	0.01
1,2-Dichloroethane	ND<0.05	ND	ND	SW846 8260B	mg/Kg	0.005
1,2-Dibromoethane(EDB)	ND<0.05	ND	ND	SW846 8260B	mg/Kg	0.005
Benzene	ND<0.05	ND	0.014	SW846 8260B	mg/Kg	0.005
Toluene	ND<0.05	ND	ND	SW846 8260B	mg/Kg	0.005
Ethylbenzene	ND<0.05	ND	ND	SW846 8260B	mg/Kg	0.005
m,p-Xylene	ND<0.05	ND	ND	SW846 8260B	mg/Kg	0.005
o-Xylene	ND<0.05	ND	ND	SW846 8260B	mg/Kg	0.005

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	110	117	116	70-130
1,2 Dichloroethaned4	109	120	120	70-130
Toluene-d8	105	112	106	70-130
Bromofluorobenzene	108	107	109	70-130

CTEL Project No: CT214-0607041
Client Name: Advanced Geo Environmental, Inc.
837 Shaw Road
Stockton, CA 95215
Phone:(209) 467-1006
Fax: (209) 467-1118
Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Date Sampled: 07/05/06 @ 14:30 p.m.
Date Received: 07/11/06 @ 09:00 am
Date Analyzed 07/11/06 - 07/13/06
Matrix: Soil

Laboratory ID:	0606-041-10	0606-041-12	0606-041-13	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	P1-30	P1-40	P2-8			
Dilution	1	1	10-100			
TPH - Gasoline	ND	ND	110	EPA 8015M	mg/Kg	1
TPH – Diesel	ND	ND	680	EPA 8015M	mg/Kg	5
VOC, 8260B						
Dilution	1	1	10			
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND<0.05	SW846 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND<1	SW846 8260B	mg/Kg	0.10
Diisopropyl Ether (DIPE)	ND	ND	ND<0.1	SW846 8260B	mg/Kg	0.01
Ethyl-t-butyl ether (ETBE)	ND	ND	ND<0.1	SW846 8260B	mg/Kg	0.01
t-Amyl Methyl Ether (TAME)	ND	ND	ND<0.1	SW846 8260B	mg/Kg	0.01
1,2-Dichloroethane	ND	ND	ND<0.05	SW846 8260B	mg/Kg	0.005
1,2-Dibromoethane(EDB)	ND	ND	ND<0.05	SW846 8260B	mg/Kg	0.005
Benzene	ND	ND	ND<0.05	SW846 8260B	mg/Kg	0.005
Toluene	ND	ND	0.22	SW846 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	0.62	SW846 8260B	mg/Kg	0.005
m,p-Xylene	ND	ND	3.1	SW846 8260B	mg/Kg	0.005
o-Xylene	ND	ND	1.1	SW846 8260B	mg/Kg	0.005

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	121	118	114	70-130
1,2 Dichloroethaned4	119	114	113	70-130
Toluene-d8	109	105	105	70-130
Bromofluorobenzene	106	100	102	70-130

CTEL Project No: CT214-0607041
Client Name: Advanced Geo Environmental, inc.
837 Shaw Road
Stockton, CA 95215
Phone:(209) 467-1006
Fax: (209) 467-1118
Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Date Sampled: 07/05/06 @ 17:40 p.m.
Matrix: Soil
Date Received: 07/11/06 @ 09:00 am
Date Analyzed 07/11/06 - 07/13/06

Laboratory ID:	0606-041-16	0606-041-18	0606-041-19	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	P2-15	P2-20	P2-24			
Dilution	1	1	1			
TPH - Gasoline	ND	ND	ND	EPA 8015M	mg/Kg	1
TPH – Diesel	ND	ND	ND	EPA 8015M	mg/Kg	5
VOC, 8260B						
Dilution	1	1	1			
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	SW846 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	SW846 8260B	mg/Kg	0.10
Diisopropyl Ether (DIPE)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
t-Amyl Methyl Ether (TAME)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
1,2-Dichloroethane	ND	ND	ND	SW846 8260B	mg/Kg	0.005
1,2-Dibromoethane(EDB)	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
m,p-Xylene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	SW846 8260B	mg/Kg	0.005

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	117	107	116	70-130
1,2 Dichloroethaned4	123	105	115	70-130
Toluene-d8	98	105	106	70-130
Bromofluorobenzene	112	104	102	70-130

CTEL Project No: CT214-0607041
Client Name: Advanced Geo Environmental, Inc.
837 Shaw Road
Stockton, CA 95215
Phone:(209) 467-1006
Fax: (209) 467-1118
Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Date Sampled: 07/05/06 – 07/06/06 @ 18:05 p.m.
Matrix: Soil
Date Received: 07/11/06 @ 09:00 am
Date Analyzed 07/11/06 – 07/13/06

Laboratory ID:	0606-041-21	0606-041-22	0606-041-23	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	P2-34	P2-40	P3-8			
Dilution	1	1	1			
TPH - Gasoline	ND	ND	ND	EPA 8015M	mg/Kg	1
TPH – Diesel	ND	ND	ND	EPA 8015M	mg/Kg	5
VOC, 8260B						
Dilution	1	1	1			
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	SW846 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	SW846 8260B	mg/Kg	0.10
Diisopropyl Ether (DIPE)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
t-Amyl Methyl Ether (TAME)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
1,2-Dichloroethane	ND	ND	ND	SW846 8260B	mg/Kg	0.005
1,2-Dibromoethane(EDB)	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
m,p-Xylene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	SW846 8260B	mg/Kg	0.005

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	123	114	114	70-130
1,2 Dichloroethaned4	121	116	111	70-130
Toluene-d8	106	105	84	70-130
Bromofluorobenzene	106	100	104	70-130

CTEL Project No: CT214-0607041
Client Name: Advanced Geo Environmental, Inc.
837 Shaw Road
Stockton, CA 95215
Phone:(209) 467-1006
Fax: (209) 467-1118
Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Date Sampled: 07/06/06 @ 09:10 p.m.
Date Received: 07/11/06 @ 09:00 am
Date Analyzed 07/11/06 – 07/13/06
Matrix: Soil

Laboratory ID:	0606-041-25	0606-041-27	0606-041-30	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	P3-17	P3-25	P3-35			
Dilution	1	1	1			
TPH - Gasoline	ND	ND	ND	EPA 8015M	mg/Kg	1
TPH – Diesel	ND	ND	ND	EPA 8015M	mg/Kg	5
VOC, 8260B						
Dilution	1	1	1			
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	SW846 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	SW846 8260B	mg/Kg	0.10
Diisopropyl Ether (DIPE)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
t-Amyl Methyl Ether (TAME)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
1,2-Dichloroethane	ND	ND	ND	SW846 8260B	mg/Kg	0.005
1,2-Dibromoethane(EDB)	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
m,p-Xylene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	SW846 8260B	mg/Kg	0.005

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	116	117	117	70-130
1,2 Dichloroethaned4	119	121	116	70-130
Toluene-d8	98	91	105	70-130
Bromofluorobenzene	126	124	103	70-130

CTEL Project No: CT214-0607041
Client Name: Advanced Geo Environmental, Inc.
837 Shaw Road
Stockton, CA 95215
Phone:(209) 467-1006
Fax: (209) 467-1118
Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Date Sampled: 07/06/06 @ 09:35 am
Date Received: 07/11/06 @ 09:00 am
Date Analyzed 07/11/06 - 07/13/06
Matrix: Soil

Laboratory ID:	0606-041-31	0606-041-32	0606-041-34	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	P3-40	P4-7	P4-18			
Dilution	1	10-100	1			
TPH - Gasoline	ND	10	ND	EPA 8015M	mg/Kg	1
TPH – Diesel	ND	13000	ND	EPA 8015M	mg/Kg	5
VOC, 8260B						
Dilution	1	10-100	1			
Methyl-tert-butyl-ether(MtBE)	ND	ND<0.05	ND	SW846 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND<1	ND	SW846 8260B	mg/Kg	0.10
Diisopropyl Ether (DIPE)	ND	ND<0.1	ND	SW846 8260B	mg/Kg	0.01
Ethyl-t-butyl ether (ETBE)	ND	ND<0.1	ND	SW846 8260B	mg/Kg	0.01
t-Amyl Methyl Ether (TAME)	ND	ND<0.1	ND	SW846 8260B	mg/Kg	0.01
1,2-Dichloroethane	ND	ND<0.05	ND	SW846 8260B	mg/Kg	0.005
1,2-Dibromoethane(EDB)	ND	ND<0.05	ND	SW846 8260B	mg/Kg	0.005
Benzene	ND	ND<0.05	ND	SW846 8260B	mg/Kg	0.005
Toluene	ND	ND<0.05	ND	SW846 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND<0.05	ND	SW846 8260B	mg/Kg	0.005
m,p-Xylene	ND	ND<0.05	ND	SW846 8260B	mg/Kg	0.005
o-Xylene	ND	ND<0.05	ND	SW846 8260B	mg/Kg	0.005

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	124	85	84	70-130
1,2 Dichloroethaned4	129	90	103	70-130
Toluene-d8	111	97	110	70-130
Bromofluorobenzene	109	91	116	70-130

CTEL Project No: CT214-0607041
Client Name: Advanced Geo Environmental, Inc.
837 Shaw Road
Stockton, CA 95215
Phone:(209) 467-1006
Fax: (209) 467-1118

Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Matrix: Soil

Date Sampled: 07/06/06 @ 11:45 am
Date Received: 07/11/06 @ 09:00 am
Date Analyzed 07/11/06 - 07/13/06

Laboratory ID:	0606-041-36	0606-041-37	0606-041-39	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	P4-28	P4-34	P4-40			
Dilution	1	1	1			
TPH - Gasoline	ND	ND	ND	EPA 8015M	mg/Kg	1
TPH – Diesel	ND	ND	ND	EPA 8015M	mg/Kg	5
VOC, 8260B						
Dilution	1	1	1			
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	SW846 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	SW846 8260B	mg/Kg	0.10
Diisopropyl Ether (DIPE)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
t-Amyl Methyl Ether (TAME)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
1,2-Dichloroethane	ND	ND	ND	SW846 8260B	mg/Kg	0.005
1,2-Dibromoethane(EDB)	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
m,p-Xylene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	SW846 8260B	mg/Kg	0.005

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	80	80	81	70-130
1,2 Dichloroethaned4	113	96	107	70-130
Toluene-d8	107	100	91	70-130
Bromofluorobenzene	111	91	100	70-130

CTEL Project No: CT214-060/041
Client Name: Advanced Geo Environmental, Inc.
837 Shaw Road
Stockton, CA 95215
Phone:(209) 467-1006
Fax: (209) 467-1118
Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Matrix: Soil

Date Sampled: 07/06/06 @ 14:05 p.m.
Date Received: 07/11/06 @ 09:00 am
Date Analyzed 07/11/06 - 07/13/06

Laboratory ID:	0606-041-40	0606-041-42	0606-041-45	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	P5-10	P5-20	P5-30			
Dilution	1	1	1			
TPH - Gasoline	ND	ND	ND	EPA 8015M	mg/Kg	1
TPH – Diesel	ND	ND	ND	EPA 8015M	mg/Kg	5
VOC, 8260B						
Dilution	1	1	1			
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	SW846 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	SW846 8260B	mg/Kg	0.10
Diisopropyl Ether (DIPE)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
t-Amyl Methyl Ether (TAME)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
1,2-Dichloroethane	ND	ND	ND	SW846 8260B	mg/Kg	0.005
1,2-Dibromoethane(EDB)	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
m,p-Xylene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	SW846 8260B	mg/Kg	0.005

ND – Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	78	82	81	70-130
1,2 Dichloroethaned4	112	101	126	70-130
Toluene-d8	99	101	100	70-130
Bromofluorobenzene	113	109	123	70-130

CTEL Project No: CT214-0607041
Client Name: Advanced Geo Environmental, Inc.
837 Shaw Road
Stockton, CA 95215
Attention: Ms. Jo'l Chapman

Phone:(209) 467-1006
Fax: (209) 467-1118

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Matrix: Soil

Date Sampled: 07/06/06 @ 14:45 p.m.
Date Received: 07/11/06 @ 09:00 am
Date Analyzed 07/11/06 - 07/13/06

		Method	Units:	Detection Limit
Laboratory ID:	0606-041-47			
Client Sample ID:	P5-40			
Dilution	1			
TPH - Gasoline	ND	EPA 8015M	mg/Kg	1
TPH – Diesel	ND	EPA 8015M	mg/Kg	5
VOC, 8260B				
Dilution	1			
Methyl-tert-butyl-ether(MtBE)	ND	SW846 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	SW846 8260B	mg/Kg	0.10
Diisopropyl Ether (DIPE)	ND	SW846 8260B	mg/Kg	0.01
Ethyl-t-butyl ether (ETBE)	ND	SW846 8260B	mg/Kg	0.01
t-Amyl Methyl Ether (TAME)	ND	SW846 8260B	mg/Kg	0.01
1,2-Dichloroethane	ND	SW846 8260B	mg/Kg	0.005
1,2-Dibromoethane(EDB)	ND	SW846 8260B	mg/Kg	0.005
Benzene	ND	SW846 8260B	mg/Kg	0.005
Toluene	ND	SW846 8260B	mg/Kg	0.005
Ethylbenzene	ND	SW846 8260B	mg/Kg	0.005
m,p-Xylene	ND	SW846 8260B	mg/Kg	0.005
o-Xylene	ND	SW846 8260B	mg/Kg	0.005

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY	Control Limit
Dibromofluoromethane	82	70-130
1,2 Dichloroethaned4	100	70-130
Toluene-d8	101	70-130
Bromofluorobenzene	97	70-130

CTEL Project No: CT214-0607041
Client Name: Advanced Geo Environmental, Inc.
837 Shaw Road
Stockton, CA 95215
Phone:(209) 467-1006
Fax: (209) 467-1118
Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Date Sampled: 07/06/06 - 07/07/06 @ 17:00 p.m.
Date Received: 07/11/06 @ 09:00 am
Date Analyzed 07/11/06 – 07/13/06
Matrix: Water

Laboratory ID:	0606-041-48	0606-041-49	0606-041-50	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	P5-W-10	P5-W-35	P4-W-10			
Dilution	1	1	1-50			
TPH - Gasoline	2000	220	38000	EPA 8015M	ug/L	50
TPH – Diesel	ND	ND	350000	EPA 8015M	ug/L	50
VOC, 8260B						
Dilution	1-10	1	1-50			
Methyl-tert-butyl-ether(MtBE)	950	180	4000	SW846 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND<10	ND	ND<10	SW846 8260B	ug/L	10
Diisopropyl Ether (DIPE)	ND<1	ND	ND<1	SW846 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND<1	ND	ND<1	SW846 8260B	ug/L	1
t-Amyl Methyl Ether (TAME)	3.4	ND	5.3	SW846 8260B	ug/L	1
1,2-Dichloroethane	ND<0.5	ND	ND<0.5	SW846 8260B	ug/L	0.5
1,2-Dibromoethane(EDB)	ND<0.5	ND	ND<0.5	SW846 8260B	ug/L	0.5
Benzene	32	3.4	ND<0.5	SW846 8260B	ug/L	0.5
Toluene	36	ND	ND<0.5	SW846 8260B	ug/L	0.5
Ethylbenzene	ND<0.5	ND	ND<0.5	SW846 8260B	ug/L	0.5
m,p-Xylene	ND<0.6	ND	ND<0.6	SW846 8260B	ug/L	0.6
o-Xylene	ND<0.6	ND	ND<0.6	SW846 8260B	ug/L	0.6

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	74	81	79	70-130
1,2 Dichloroethaned4	106	108	113	70-130
Toluene-d8	122	78	96	70-130
Bromofluorobenzene	100	118	116	70-130

CTEL Project No: CT214-0607041
Client Name: Advanced Geo Environmental, Inc.
837 Shaw Road
Stockton, CA 95215
Phone:(209) 467-1006
Fax: (209) 467-1118
Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Matrix: Water

Date Sampled: 07/07/06 @ 10:00 am
Date Received: 07/11/06 @ 09:00 am
Date Analyzed 07/11/06 – 07/13/06

Laboratory ID:	0606-041-51	0606-041-52	0606-041-53	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	P4-W-35	P3-W-35	P2-W-35			
Dilution	1	1	1			
TPH - Gasoline	ND	ND	ND	EPA 8015M	ug/L	50
TPH – Diesel	ND	ND	ND	EPA 8015M	ug/L	50
VOC, 8260B						
Dilution	1	1	1			
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	SW846 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND	ND	ND	SW846 8260B	ug/L	10
Diisopropyl Ether (DIPE)	ND	ND	ND	SW846 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	SW846 8260B	ug/L	1
t-Amyl Methyl Ether (TAME)	ND	ND	ND	SW846 8260B	ug/L	1
1,2-Dichloroethane	ND	ND	ND	SW846 8260B	ug/L	0.5
1,2-Dibromoethane(EDB)	ND	ND	ND	SW846 8260B	ug/L	0.5
Benzene	ND	ND	ND	SW846 8260B	ug/L	0.5
Toluene	ND	ND	ND	SW846 8260B	ug/L	0.5
Ethylbenzene	ND	ND	ND	SW846 8260B	ug/L	0.5
m,p-Xylene	ND	ND	ND	SW846 8260B	ug/L	0.6
o-Xylene	ND	ND	ND	SW846 8260B	ug/L	0.6

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	113	111	74	70-130
1,2 Dichloroethaned4	109	102	104	70-130
Toluene-d8	105	97	97	70-130
Bromofluorobenzene	101	93	95	70-130

CTEL Project No: CT214-0607041
Client Name: Advanced Geo Environmental, Inc
837 Shaw Road
Stockton, CA 95215
Phone:(209) 467-1006
Fax: (209) 467-1118
Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Date Sampled: 07/07/06 @ 16:15 p.m.
Date Received: 07/11/06 @ 09:00 am
Date Analyzed 07/11/06 - 07/13/06
Matrix: Water

Laboratory ID:	0606-041-54	0606-041-55	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	P1-W-20	P1-W-35			
Dilution	1-50	1-50			
TPH - Gasoline	33000	19000	EPA 8015M	ug/L	50
TPH – Diesel	310000	4500	EPA 8015M	ug/L	50
VOC, 8260B					
Dilution	1-50	1-50			
Methyl-tert-butyl-ether(MtBE)	11000	9200	SW846 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND<10	ND<10	SW846 8260B	ug/L	10
Diisopropyl Ether (DIPE)	ND<1	ND<1	SW846 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND<1	ND<1	SW846 8260B	ug/L	1
t-Amyl Methyl Ether (TAME)	17	16	SW846 8260B	ug/L	1
1,2-Dichloroethane	4.7	3.4	SW846 8260B	ug/L	0.5
1,2-Dibromoethane(EDB)	ND<0.5	ND<0.5	SW846 8260B	ug/L	0.5
Benzene	110	63	SW846 8260B	ug/L	0.5
Toluene	ND<0.5	ND<0.5	SW846 8260B	ug/L	0.5
Ethylbenzene	2.3	13	SW846 8260B	ug/L	0.5
m,p-Xylene	13	8.4	SW846 8260B	ug/L	0.6
o-Xylene	4.3	2.1	SW846 8260B	ug/L	0.6

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY		Control Limit
Dibromofluoromethane	79	76	70-130
1,2 Dichloroethaned4	103	100	70-130
Toluene-d8	102	95	70-130
Bromofluorobenzene	104	102	70-130

Greg Tejirian
Laboratory Director

*The results are base upon the sample received.

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

QA/QC Report

Method: 8015M

Matrix: Soil

Date Analyzed: 7/11/06

Date Extracted: 7/11/06

Perimeters	Conc.	ug/Kg	Spike	Recovery	%	Control	Limits	RPD
	MS	MSD	Added	MS	MSD	Rec.	RPD	
TPH - Gasoline	1014	1010	1000	101	101	70-130	20	0

Perimeters	Method Blank	Units	Det. Limit
TPH - Gasoline	ND	ug/Kg	100

MS: Matrix Spike
MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

QA/QC Report

Method: 8260B

Matrix: Soil

Date Analyzed: 7/11/06

Date Extracted: 7/11/06

Perimeters	Conc. ug/Kg		Spike	Recovery %		Control Limits		RPD
	MS	MSD	Added	MS	MSD	Rec.	RPD	
1,1-Dichloroethene	44	40	50	88	80	70-130	20	8
Benzene	47	46	50	94	92	70-130	20	2
Trichloroethene	47	45	50	94	90	70-130	20	4
Toluene	48	49	50	96	98	70-130	20	2
Chlorobenzene	42	44	50	84	88	70-130	20	4
m,p-Xylenes	91	96	100	91	96	70-130	20	5

MS: Matrix Spike
MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/Kg	5
Benzene	ND	ug/Kg	5
Trichloroethene	ND	ug/Kg	5
Toluene	ND	ug/Kg	5
Chlorobenzene	ND	ug/Kg	5
m,p-Xylenes	ND	ug/Kg	5
MTBE	ND	ug/Kg	5
TBA	ND	ug/Kg	100
DIPE	ND	ug/Kg	10
ETBE	ND	ug/Kg	10
TAME	ND	ug/Kg	10
1,2-Dichloroethane	ND	ug/Kg	5
EDB	ND	ug/Kg	5
Ethylbenzene	ND	ug/Kg	5
o-Xylene	ND	ug/Kg	5

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

QA/QC Report

Method: 8015M

Matrix: Soil

Date Analyzed: 7/13/06

Date Extracted: 7/13/06

Perimeters	Conc.	ug/Kg	Spike	Recovery	%	Control	Limits	RPD
	MS	MSD	Added	MS	MSD	Rec.	RPD	
TPH - Gasoline	1081	1067	1000	108	107	70-130	20	1
TPH - Diesel	1104	1203	1000	110	120	70-130	20	10

Perimeters	Method Blank	Units	Det. Limit
TPH - Gasoline	ND	ug/Kg	100
TPH - Diesel	ND	ug/Kg	1000

MS: Matrix Spike
MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

QA/QC Report

Method: 8260B

Matrix: Soil

Date Analyzed: 7/13/06

Date Extracted: 7/13/06

Perimeters	Conc. ug/Kg		Spike Added	Recovery %		Control Limits		RPD
	MS	MSD		MS	MSD	Rec.	RPD	
1,1-Dichloroethene	42	43	50	84	86	70-130	20	2
Benzene	46	47	50	92	94	70-130	20	2
Trichloroethene	48	46	50	96	92	70-130	20	4
Toluene	49	47	50	98	94	70-130	20	4
Chlorobenzene	49	48	50	98	96	70-130	20	2
m,p-Xylenes	111	108	100	111	108	70-130	20	3

MS: Matrix Spike
MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/Kg	5
Benzene	ND	ug/Kg	5
Trichloroethene	ND	ug/Kg	5
Toluene	ND	ug/Kg	5
Chlorobenzene	ND	ug/Kg	5
m,p-Xylenes	ND	ug/Kg	5
MTBE	ND	ug/Kg	5
TBA	ND	ug/Kg	100
DIPE	ND	ug/Kg	10
ETBE	ND	ug/Kg	10
TAME	ND	ug/Kg	10
1,2-Dichloroethane	ND	ug/Kg	5
EDB	ND	ug/Kg	5
Ethylbenzene	ND	ug/Kg	5
o-Xylene	ND	ug/Kg	5

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

QA/QC Report

Method: 8015M

Matrix: Water

Date Analyzed: 7/11/06

Date Extracted: 7/11/06

Perimeters	Conc. ug/L		Spike Added	Recovery %		Control Limits		RPD
	MS	MSD		MS	MSD	Rec.	RPD	
TPH - Gasoline	1037	1052	1000	104	105	70-130	20	1
TPH - Diesel	1159	1098	1000	116	110	70-130	20	5

Perimeters	Method Blank	Units	Det. Limit
TPH - Gasoline	ND	ug/L	50
TPH - Diesel	ND	ug/L	50

MS: Matrix Spike
MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

QA/QC Report

Method: 8260B

Matrix: Water

Date Analyzed: 7/11/06

Date Extracted: 7/11/06

Perimeters	Conc. ug/L		Spike Added	Recovery %		Control Limits		RPD
	MS	MSD		MS	MSD	Rec.	RPD	
1,1-Dichloroethane	41	42	50	82	84	70-130	20	4
Benzene	47	45	50	94	90	70-130	20	4
Trichloroethene	54	54	50	108	108	70-130	20	0
Toluene	46	46	50	92	92	70-130	20	0
Chlorobenzene	53	53	50	106	106	70-130	20	0
m,p-Xylenes	101	98	100	101	98	70-130	20	3

MS: Matrix Spike
MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/L	1
Benzene	ND	ug/L	0.5
Trichloroethene	ND	ug/L	0.5
Toluene	ND	ug/L	0.5
Chlorobenzene	ND	ug/L	0.5
m,p-Xylenes	ND	ug/L	0.6
MTBE	ND	ug/L	1
TBA	ND	ug/L	10
DIPE	ND	ug/L	1
ETBE	ND	ug/L	1
TAME	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	0.5
EDB	ND	ug/L	0.5
Ethylbenzene	ND	ug/L	0.5
o-Xylene	ND	ug/L	0.6
TCE	ND	ug/L	1
PCE	ND	ug/L	1

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

QA/QC Report

Method: 8015M

Matrix: Water

Date Analyzed: 7/13/06

Date Extracted: 7/13/06

Perimeters	Conc.	ug/L	Spike	Recovery	%	Control	Limits	RPD
	MS	MSD	Added	MS	MSD	Rec.	RPD	
TPH - Gasoline	1012	1036	1000	101	104	70-130	20	3

Perimeters	Method Blank	Units	Det. Limit
TPH - Gasoline	ND	ug/L	50

MS: Matrix Spike
MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

QA/QC Report

Method: 8260B

Matrix: Water

Date Analyzed: 7/13/06

Date Extracted: 7/13/06

Perimeters	Conc. ug/L		Spike Added	Recovery %		Control Limits		RPD
	MS	MSD		MS	MSD	Rec.	RPD	
1,1-Dichloroethane	45	46	50	90	92	70-130	20	2
Benzene	44	47	50	88	94	70-130	20	6
Trichloroethene	47	50	50	94	100	70-130	20	6
Toluene	48	49	50	96	98	70-130	20	2
Chlorobenzene	44	45	50	88	90	70-130	20	2
m,p-Xylenes	89	92	100	89	92	70-130	20	3

MS: Matrix Spike
MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/L	1
Benzene	ND	ug/L	0.5
Trichloroethene	ND	ug/L	0.5
Toluene	ND	ug/L	0.5
Chlorobenzene	ND	ug/L	0.5
m,p-Xylenes	ND	ug/L	0.6
MTBE	ND	ug/L	1
TBA	ND	ug/L	10
DIPE	ND	ug/L	1
ETBE	ND	ug/L	1
TAME	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	0.5
EDB	ND	ug/L	0.5
Ethylbenzene	ND	ug/L	0.5
o-Xylene	ND	ug/L	0.6
TCE	ND	ug/L	1
PCE	ND	ug/L	1

Advanced
GeoEnvironmental, Inc.
837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

CHAIN OF CUSTODY RECORD

Date 7-6-06 Page 1 of 8

07-041

Client Reed Rinehart

Project Manager Joi Chapman

Phone Number

Samplers: (Signature)

Project Name Oakland Truck Stop

Tests Required: TPH-g/d, BTEX, 8015M, 8260B, 5 oxys, 1,2-DCA, EDB

Invoice: AGE ☑ Client ☐

Sample Number	Location Description	Date	Time	Sample Type: Water Comp.	Water Grab.	Air	Solid	No. of Conts.	TPH-g/d	BTEX	8015M	8260B	5 oxys	1,2-DCA, EDB			Notes
P1-6	soil boring 1 @ 6' bsg	7-5-06	1325				X	1	X	X	X	X					
P1-8	" 8' bsg		1330														hold
P1-11	" 11' bsg		1335														hold
P1-14	" 14' bsg		1340						X	X	X	X					
P1-17	" 17' bsg		1345														hold
P1-20	" 20' bsg		1350														hold
P1-21	" 21' bsg		1355						X	X	X	X					

Relinquished by: (Signature) — Received by: (Signature) — Date/Time 7-5-06 / 1700

Relinquished by: (Signature) — Received by: (Signature) — Date/Time

Relinquished by: (Signature) — Received by Mobile Laboratory for field analysis: (Signature) — Date/Time

S.T.A.T.

Dispatched by: (Signature) — Date/Time — Received for Laboratory by: R. Nyhuis — Date/Time 7-11-06 / 9:30

Method of Shipment: Cal Overnight

Laboratory Name: Cal Tech

Special Instructions: * need EDF *

I hereby authorize the performance of the above indicated work.

Advanced
GeoEnvironmental, Inc.
837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

CHAIN OF CUSTODY RECORD

Date 7-6-06 Page 2 of 8

07-041

Client Reed Rinehart

Project Manager Joel Chapman

Phone Number

Samplers: (Signature)

Project Name Oakland Truck Stop

Tests Required

Invoice: AGE ☑ Client ☐

Sample Number	Location Description	Date	Time	Sample Type: Water Comp.	Water Grab.	Air	Solid	No. of Conts.	TPH-g/d	BTEX	5 oxys	1,2-DCA & EDB	8260B			Notes
P1-23	soil boring 1 @ 23' bsg	7-5-06	1400				X	1								hold
P1-25	" 25' bsg		1415													hold
P1-30	" 30' bsg		1430						X	X	X	X				
P1-34	" 34' bsg		1440													hold
P1-40	" 40' bsg		1445						X	X	X	X				
P2-8	soil boring 2 @ 8' bsg		1725						X	X	X	X				
P2-10	" 10' bsg	↓	1730				↓	↓								hold

Relinquished by: (Signature)	Received by: (Signature)	Date/Time 7-6-06/1700
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by Mobile Laboratory for field analysis: (Signature)	Date/Time
Dispatched by: (Signature)	Date/Time / Received for Laboratory: R. Taylor	Date/Time 7-11-06 / 9:00

S.T.A.T.

Method of Shipment: Cal Overnight

Laboratory Name Cal Tech

Special Instructions: * need EDF *

I hereby authorize the performance of the above indicated work.

Advanced
GeoEnvironmental, Inc.
837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

CHAIN OF CUSTODY RECORD

Date 7-6-06 Page 3 of 8

07-041

Client Reed Rinehart

Project Manager Jill Chapman

Phone Number

Samplers: (Signature)

Project Name Oakland Truck Stop

Tests Required

Invoice: AGE ☑ Client ☐

Sample Number	Location Description	Date	Time	Sample Type: Water Comp.	Sample Type: Water Grab.	Sample Type: Air	Solid	No. of Conts.	TPH-g/d	BTEX	5 oxys	1,2-DCA, EDB	8015M	8260B			Notes
P2-11	soil boring 2 @ 11' bsg	7-5-06	1735				X	1									hold
P2-15	" 15' bsg		1740						X	X	X	X					
P2-16	" 16' bsg		1745														hold
P2-20	" 20' bsg		1746						X	X	X	X					
P2-24	" 24' bsg		1750						X	X	X	X					
P2-30	" 30' bsg		1755														hold
P2-34	" 34' bsg		1805						X	X	X	X					

Relinquished by: (Signature) — Received by: (Signature) — Date/Time 7-6-06/1700

Relinquished by: (Signature) — Received by: (Signature) — Date/Time

Relinquished by: (Signature) — Received by Mobile Laboratory for field analysis: (Signature) — Date/Time

S.T.A.T.

Dispatched by: (Signature) — Date/Time — Received for Laboratory by: R. Taylor — Date/Time 7-11-06/9:00

Method of Shipment: Cal Overnight

Laboratory Name Cal Tech

Special Instructions: * need EDF *

I hereby authorize the performance of the above indicated work.

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CHAIN OF CUSTODY RECORD

Date 7-6-06 Page 4 of 8

07-041

Client Reed Rinehart

Project Manager Jol Chapman

Phone Number

Samplers: (Signature)

Project Name Oakland Truck Stop

Tests Required

Invoice: AGE ☑ Client ☐

Sample Number	Location Description	Date	Time	Sample Type: Water Comp.	Water Grab.	Air	Solid	No. of Conts.	TPH-g/d	BTEX	8015M	8260B	5 oxys	1,2 DCA, EDB				Notes
P2-40	soil boring 2 @ 40' bsg	7-5-06	1810				X	1	X	X	X	X						
P3-8	soil boring 3 @ 8' bsg	7-6-06	0900						X	X	X	X						
P3-12	" 12' bsg		0905															hold
P3-17	" 17' bsg		0910						X	X	X	X						
P3-21	" 21' bsg		0915															hold
P3-25	" 25' bsg		0917						X	X	X	X						
P3-28	" 28' bsg	↓	0925				↓	↓										hold

Relinquished by: (Signature) — Received by: (Signature) — Date/Time 7-6-06/1700

Relinquished by: (Signature) — Received by: (Signature) — Date/Time

Relinquished by: (Signature) — Received by Mobile Laboratory for field analysis: (Signature) — Date/Time

S.T.A.T.

Dispatched by: (Signature) — Date/Time — Received for Laboratory by: R. Tejada — Date/Time 7-11-06/9:0

Method of Shipment: Cal Overnight

Laboratory Name: Cal Tech

Special Instructions: * need EDF *

I hereby authorize the performance of the above indicated work.

Advanced
GeoEnvironmental, Inc.
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CHAIN OF CUSTODY RECORD

Date 7-6-06 Page 5 of 8

07-041

Client Reed Rinehart

Project Manager Joel Chapman

Phone Number

Samplers: (Signature)

Project Name Oakland Truck Stop

Tests Required

Invoice: AGE ☑ Client ☐

Sample Number	Location Description	Date	Time	Sample Type: Water Comp.	Water Grab.	Air	Solid	No. of Conts.	TPH-g/D	BTEX	5 OXYS	1,2-DCA EDB	8015M	8260B			Notes
P3-31	soil boring 3 @ 31' bsg	7-6-06	0930				X	1									hold
P3-35	" 35' bsg		0932						X	X	X	X					
P3-40	" 40' bsg		0935						X	X	X	X					
P4-7	soil boring 4 @ 7' bsg		1120						X	X	X	X					
P4-13	" 13' bsg		1125														hold
P4-18	" 18' bsg		1130						X	X	X	X					
P4-23	" 23' bsg		1140														hold

Relinquished by: (Signature)

Received by: (Signature)

Date/Time 7-6-06 / 2000

Relinquished by: (Signature)

Received by: (Signature)

S.T.A.T.

Date/Time

Relinquished by: (Signature)

Received by Mobile Laboratory for field analysis: (Signature)

Date/Time

Dispatched by: (Signature)

Date/Time

Received for Laboratory by: R. Taylor Lui

Date/Time 7-11-06 / 9:00

Method of Shipment: Cal Overnight

Laboratory Name Cal Tech

Special Instructions: * need EDF *

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Advanced
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CHAIN OF CUSTODY RECORD

Date 7-6-06 Page 6 of 8

07-041

Client Reed Rinehart

Project Manager Joi Chapman

Phone Number

Samplers: (Signature)

Project Name Oakland Truck Stop

Tests Required

Invoice: AGE ☑ Client ☐

Sample Number	Location Description	Date	Time	Sample Type: Water Comp.	Water Grab.	Air	Solid	No. of Conts.	TPH-g/d	BTEX	5 oxy's	1,2-DCA, EDB	8015M	8260B			Notes
P4-28	soil boring 4 @ 28' bsg	7-6-06	1145				X	1	X	X	X	X					
P4-34	" 34' bsg		1150						X	X	X	X					
P4-36	" 36' bsg		1153														hold
P4-40	" 40' bsg		1155						X	X	X	X					
P5-10	soil boring P5 @ 10' bsg		1405						X	X	X	X					
P5-15	" 15' bsg		1410														hold
P5-20	" 20' bsg		1415						X	X	X	X					

Relinquished by: (Signature)

Received by: (Signature)

Date/Time 7-6-06/1700

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by Mobile Laboratory for field analysis: (Signature)

S.T.A.T.

Date/Time

Dispatched by: (Signature)

Date/Time

Received for Laboratory by: R. Tanghavi

Date/Time 7-11-06/9:00am

Method of Shipment: Cal Overnight

Laboratory Name Cal Tech

Special Instructions: *need EDF*

I hereby authorize the performance of the above indicated work.

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CHAIN OF CUSTODY RECORD

Date 7-6-06 Page 7 of 8

07.041

Client Reed Pinehart

Project Manager Joi Chapman

Phone Number

Samplers: (Signature)

Project Name Oakland Truck Stop

Invoice: AGE ☑ Client ☐

Sample Number	Location Description	Date	Time	Sample Type: Water Comp.	Sample Type: Water Grab.	Sample Type: Air	Solid	No. of Conts.	TPH-g/D	BTEX	5 oxys	1,2-DCA, EDB	8015M	8260B			Notes
PS-25	soil boring 5 @ 25' bsg	7-6-06	1420				X	1									hold
PS-27	" 27' bsg		1430														hold
PS-30	" 30' bsg		1432						X	X	X	X					
PS-35	" 35' bsg		1440														hold
PS-40	" 40' bsg		1445						X	X	X	X					
PS-W-10	boring 5-water @ 10' bsg		1700		X			4	X	X	X	X					
PS-W-35	" 35' bsg		1745		X			4	X	X	X	X					

Relinquished by: (Signature) — Received by: (Signature) — Date/Time 7-6-06 / 1700

Relinquished by: (Signature) — Received by: (Signature) — Date/Time

Relinquished by: (Signature) — Received by Mobile Laboratory for field analysis: (Signature) — Date/Time

S.T.A.T.

Dispatched by: (Signature) — Date/Time — Received for Laboratory by: R. Taghavi — Date/Time 7-11-06 / 9:00am

Method of Shipment: Cal Overnight

Laboratory Name Cal Tech

Special Instructions: *need EDF*

I hereby authorize the performance of the above indicated work.

Advanced
GeoEnvironmental, Inc.
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CHAIN OF CUSTODY RECORD

Date 7-7-06 Page 8 of 8

07-041

Client Reed Rinehart

Project Manager Joel Chapman

Phone Number

Samplers: (Signature)

Project Name Oakland Truck Stop

Tests Required: TPH-g/d/, 8015M; BTEX, 8260B; 5 oxys; 1,2-DCA, EDB

Invoice: AGE ☑ Client ☐

Sample Number	Location Description	Date	Time	Sample Type: Water Comp.	Sample Type: Water Grab.	Sample Type: Air	Solid	No. of Conts.	Notes
P4-W-10	boring P4 - water @ 10' bsg	7-7-06	0845		X			4	
P4-W-35	" 35' bsg		1000		X			5	no amber liter
P3-W-35	boring P3 - water @ 35' bsg		1245		X			4	
P2-W-35	boring P2 - water @ 35' bsg		1450		X			4	
P1-W-20	boring P1 - water @ 20' bsg		1615		X			4	
P1-W-35	" 35' bsg	↓	1700		X			4	

Relinquished by: (Signature)

Received by: (Signature)

Date/Time 7-7-06 / 1700

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by Mobile Laboratory for field analysis: (Signature)

Date/Time

S.T.A.T.

Dispatched by: (Signature)

Date/Time

Received for Laboratory by: R. Toffelmier

Date/Time 7-11-06 / 9:00am

Method of Shipment: Cal Overnight

Laboratory Name Cal Tech

Special Instructions: * need EDF *

I hereby authorize the performance of the above indicated work.

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

ANALYTICAL RESULTS*

CTEL Project No: CT214-0607108
Client Name: Advanced Geo Environmental, Inc.
837 Shaw Road
Stockton, CA 95215
Phone:(209) 467-1006
Fax: (209) 467-1118
Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Date Sampled: 07/18/06 @ 10:20 am
Matrix: Soil
Date Received: 07/19/06 @ 09:00 am
Date Analyzed 07/19/06 – 07/20/06

Laboratory ID:	0607-108-1	0607-108-2	0607-108-4	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	P6-8	P6-12	P6-20			
Dilution	1	1	1			
TPH - Gasoline	ND	ND	ND	EPA 8015M	mg/Kg	1
TPH – Diesel	ND	ND	ND	EPA 8015M	mg/Kg	5
VOC, 8260B						
Dilution	1	1	1			
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	SW846 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	SW846 8260B	mg/Kg	0.10
Diisopropyl Ether (DIPE)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
t-Amyl Methyl Ether (TAME)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
1,2-Dichloroethane	ND	ND	ND	SW846 8260B	mg/Kg	0.005
1,2-Dibromoethane(EDB)	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
m,p-Xylene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	SW846 8260B	mg/Kg	0.005

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	78	82	87	70-130
1,2 Dichloroethaned4	79	84	79	70-130
Toluene-d8	76	76	80	70-130
Bromofluorobenzene	85	86	92	70-130

CTEL Project No: CT214-0607108
Client Name: Advanced Geo Environmental, Inc.
837 Shaw Road
Stockton, CA 95215
Phone:(209) 467-1006
Fax: (209) 467-1118
Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Date Sampled: 07/18/06 @ 12:20 p.m.
Matrix: Soil
Date Received: 07/19/06 @ 09:00 am
Date Analyzed 07/19/06 - 07/20/06

Laboratory ID:	0607-108-5	0607-108-6	0607-108-8	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	P7-8	P7-12	P7-20			
Dilution	1	1	1			
TPH - Gasoline	ND	ND	ND	EPA 8015M	mg/Kg	1
TPH – Diesel	ND	ND	ND	EPA 8015M	mg/Kg	5
VOC, 8260B						
Dilution	1	1	1			
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	SW846 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	ND	SW846 8260B	mg/Kg	0.10
Diisopropyl Ether (DIPE)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
t-Amyl Methyl Ether (TAME)	ND	ND	ND	SW846 8260B	mg/Kg	0.01
1,2-Dichloroethane	ND	ND	ND	SW846 8260B	mg/Kg	0.005
1,2-Dibromoethane(EDB)	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Benzene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Toluene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
m,p-Xylene	ND	ND	ND	SW846 8260B	mg/Kg	0.005
o-Xylene	ND	ND	ND	SW846 8260B	mg/Kg	0.005

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	82	84	89	70-130
1,2 Dichloroethaned4	79	83	79	70-130
Toluene-d8	79	84	76	70-130
Bromofluorobenzene	94	88	95	70-130

CTEL Project No: CT214-0607108
Client Name: Advanced Geo Environmental, Inc.
837 Shaw Road
Stockton, CA 95215
Phone:(209) 467-1006
Fax: (209) 467-1118
Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Date Sampled: 07/18/06 @ 11:50 am
Date Received: 07/19/06 @ 09:00 am
Date Analyzed 07/19/06 - 07/20/06
Matrix: Water

Laboratory ID:	0607-108-9	0607-108-10	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	P6-20-W	P7-20-W			
Dilution	1	1-5			
TPH - Gasoline	130	6600	EPA 8015M	ug/L	50
TPH – Diesel	ND	13000	EPA 8015M	ug/L	50
VOC, 8260B					
Dilution	1	1			
Methyl-tert-butyl-ether(MtBE)	4.1	36	SW846 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND	ND	SW846 8260B	ug/L	10
Diisopropyl Ether (DIPE)	ND	ND	SW846 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND	ND	SW846 8260B	ug/L	1
t-Amyl Methyl Ether (TAME)	ND	ND	SW846 8260B	ug/L	1
1,2-Dichloroethane	ND	ND	SW846 8260B	ug/L	0.5
1,2-Dibromoethane(EDB)	ND	ND	SW846 8260B	ug/L	0.5
Benzene	2.3	ND	SW846 8260B	ug/L	0.5
Toluene	5.6	ND	SW846 8260B	ug/L	0.5
Ethylbenzene	ND	ND	SW846 8260B	ug/L	0.5
m,p-Xylene	ND	ND	SW846 8260B	ug/L	0.6
o-Xylene	ND	ND	SW846 8260B	ug/L	0.6

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY		Control Limit
Dibromofluoromethane	85	79	70-130
1,2 Dichloroethaned4	81	80	70-130
Toluene-d8	87	93	70-130
Bromofluorobenzene	86	90	70-130

Greg Tejirian
Laboratory Director

*The results are base upon the sample received.

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

QA/QC Report

Method: 8015M

Matrix: Water

Date Analyzed: 7/19/06

Date Extracted: 7/19/06

Perimeters	Conc. ug/L		Spike Added	Recovery %		Control Limits		RPD
	MS	MSD		MS	MSD	Rec.	RPD	
TPH - Gasoline	961	1010	1000	96	101	70-130	20	5
TPH - Diesel	1977	1981	2000	99	99	70-130	20	0

Perimeters	Method Blank	Units	Det. Limit
TPH - Gasoline	ND	ug/L	50
TPH - Diesel	ND	ug/L	50

MS: Matrix Spike
MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

CAL TECH Environmental Laboratories
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Telephone: (562) 272-2700 Fax: (562) 272-2789

QA/QC Report

Method: 8260B

Matrix: Water

Date Analyzed: 7/19/06

Date Extracted: 7/19/06

Perimeters	Conc. ug/L		Spike Added	Recovery %		Control Limits		RPD
	MS	MSD		MS	MSD	Rec.	RPD	
1,1-Dichloroethane	45	44	50	90	88	70-130	20	2
Benzene	47	46	50	94	92	70-130	20	2
Trichloroethene	49	48	50	98	96	70-130	20	2
Toluene	55	52	50	110	104	70-130	20	6
Chlorobenzene	45	45	50	90	90	70-130	20	0
m,p-Xylenes	99	95	100	99	95	70-130	20	4

MS: Matrix Spike
MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/L	1
Benzene	ND	ug/L	0.5
Trichloroethene	ND	ug/L	0.5
Toluene	ND	ug/L	0.5
Chlorobenzene	ND	ug/L	0.5
m,p-Xylenes	ND	ug/L	0.6
MTBE	ND	ug/L	1
TBA	ND	ug/L	10
DIPE	ND	ug/L	1
ETBE	ND	ug/L	1
TAME	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	0.5
EDB	ND	ug/L	0.5
Ethylbenzene	ND	ug/L	0.5
o-Xylene	ND	ug/L	0.6
TCE	ND	ug/L	1
PCE	ND	ug/L	1

CAL TECH Environmental Laboratories
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Telephone: (562) 272-2700 Fax: (562) 272-2789

QA/QC Report

Method: 8015M

Matrix: Soil

Date Analyzed: 7/19/06

Date Extracted: 7/19/06

Perimeters	Conc. ug/Kg		Spike Added	Recovery %		Control Limits		RPD
	MS	MSD		MS	MSD	Rec.	RPD	
TPH - Gasoline	1027	1088	1000	103	109	70-130	20	6
TPH - Diesel	2082	2034	2000	104	102	70-130	20	2

Perimeters	Method Blank	Units	Det. Limit
TPH - Gasoline	ND	ug/Kg	100
TPH - Diesel	ND	ug/Kg	1000

MS: Matrix Spike
MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

QA/QC Report

Method: 8260B

Matrix: Soil

Date Analyzed: 7/19/06

Date Extracted: 7/19/06

Perimeters	Conc. ug/Kg		Spike Added	Recovery %		Control Limits		RPD
	MS	MSD		MS	MSD	Rec.	RPD	
1,1-Dichloroethene	42	43	50	84	86	70-130	20	2
Benzene	49	51	50	98	102	70-130	20	4
Trichloroethene	49	52	50	98	104	70-130	20	6
Toluene	54	57	50	108	114	70-130	20	6
Chlorobenzene	44	47	50	88	94	70-130	20	6
m,p-Xylenes	98	108	100	98	108	70-130	20	10

MS: Matrix Spike
MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/Kg	5
Benzene	ND	ug/Kg	5
Trichloroethene	ND	ug/Kg	5
Toluene	ND	ug/Kg	5
Chlorobenzene	ND	ug/Kg	5
m,p-Xylenes	ND	ug/Kg	5
MTBE	ND	ug/Kg	5
TBA	ND	ug/Kg	100
DIPE	ND	ug/Kg	10
ETBE	ND	ug/Kg	10
TAME	ND	ug/Kg	10
1,2-Dichloroethane	ND	ug/Kg	5
EDB	ND	ug/Kg	5
Ethylbenzene	ND	ug/Kg	5
o-Xylene	ND	ug/Kg	5

Advanced GeoEnvironmental, Inc.
837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

CHAIN OF CUSTODY RECORD

Date 7-18-00 Page 1 of 2

07-104

Client: Reed Rinehart

Project Name: Cordelia Truck Stop

Project Manager: W. Chapman

Phone Number:

Samplers: (Signature) [signature]

Tests Required

Invoice: AGE ☑ Client ☐

Sample Number	Location Description	Date	Time	Water Comp.	Water Grab.	Air	Solid	No. of Conts.	TPH-G 8015M	BTEX 8020	5 Oxys	Lead Scav. 8260				Notes
P6-8	boring 6 at 8' bgs	7-18-00	1020				X	1	X	X	X	X				
P6-12	" 12' bgs	↓	1035				↓	↓	X	X	X	X				
P6-16	" 16' bgs	↓	1050				↓	↓								hold
P6-20	" 20' bgs	↓	1105				↓	↓	X	X	X	X				
P7-8	boring 7 at 8' bgs	↓	1220				↓	↓	X	X	X	X				
P7-12	" 12' bgs	↓	1235				↓	↓	X	X	X	X				
P7-16	" 16' bgs	↓	1250				↓	↓								hold

Relinquished by: (Signature)	Received by: (Signature)		Date/Time
[signature]		S.T.A.T.	7-18-00 [illegible]
Relinquished by: (Signature)	Received by: (Signature)		Date/Time
Relinquished by: (Signature)	Received by Mobile Laboratory for field analysis: (Signature)		Date/Time

Dispatched by: (Signature)	Date/Time	Received for Laboratory by:	Date/Time
		R. [signature]	7-19-00 [illegible]

Method of Shipment: Cal Overnight

Laboratory Name: Cal Tech

Special Instructions: Need EDF

I hereby authorize the performance of the above indicated work.

[signature]

Advanced
GeoEnvironmental, Inc.
837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

CHAIN OF CUSTODY RECORD

Date 7-18-06 Page 2 of 2

07-104

Client: Rees Rinehart

Project Manager: J.M. Chapman

Phone Number:

Samplers: (Signature) [signature]

Project Name: Oakland Truck Stop

Invoice: AGE ☑ Client ☐

Tests Required: TPH-g/d, BTEX, 5 oxys, 1,2-DCA/EDB, 8015M, 8260B

Sample Number	Location Description	Date	Time	Water Comp.	Water Grab.	Air	Solid	No. of Conts.	TPH-g/d	BTEX	5 oxys	1,2-DCA/EDB				Notes
P7-20	boring 7 at 20' bgs	7-18-06	1305				X	1	X	X	X	X				
P6-20-W	boring 6 grab GW 20'	↓	1150		X			3	X	X	X	X				
P7-22-W	boring 7 grab GW 20'	↓	1310		X			4	X	X	X	X				

Relinquished by: (Signature) [signature] — Received by: (Signature) — Date/Time: 7-18-06

Relinquished by: (Signature) — Received by: (Signature) — Date/Time

Relinquished by: (Signature) — Received by Mobile Laboratory for field analysis: (Signature) — Date/Time

S.T.A.T.

Dispatched by: (Signature) — Date/Time — Received for Laboratory by: R. Taylor — Date/Time: 7-19-06

Method of Shipment: Cal Overnight

Laboratory Name: Cal Tech

Special Instructions: Need EDF

I hereby authorize the performance of the above indicated work. [signature]