# ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



ALEX BRISCOE, Acting Director

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

December 4, 2009

Mr. Cory Kauffmann Cruise America, Inc. 11 West Hampton Avenue Mesa, AZ 85210 McGuire and Hester 9009 Railroad Avenue Oakland, CA 94603

Subject: Fuel Leak Case No. RO0002449 and Geotracker Global ID T06019713704, Cruise America, 796 66<sup>th</sup> Avenue, Oakland, CA 94621 – Case Closure

Dear Mr. Kauffman:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (<a href="http://geotracker.swrcb.ca.gov">http://geotracker.swrcb.ca.gov</a>) and the Alameda County Environmental Health website (<a href="http://www.acgov.org/aceh/index.htm">http://www.acgov.org/aceh/index.htm</a>).

#### SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Total Petroleum Hydrocarbons as gasoline remain in soil at concentrations up to 270 ppm.
- Debris and black-stained soils have been encountered in excavations at the site. The debris and stained soil appears to have been emplaced with the fill material that was used to fill in low-lying wetlands areas at the site sometime prior to 1956. The source and content of the debris and black-stained soil has not been evaluated as part of this fuel leak case.
- Features related to the Repair Building including a vehicle wash pad, hydraulic hoists, RV pump-out area, and transformer pad were not evaluated as part of this fuel leak case and is not considered part of this fuel leak closure.
- As described in section IV of the attached Case Closure Summary, the case was closed with Site Management Requirements that limit future land use to commercial land use only.

If you have any guestions, please call Jerry Wickham at (510) 567-6791. Thank you.

Sincerely,

Donna L. Drogos/P.E.

LOP and Toxics Program Manager

#### Enclosures:

- 1. Remedial Action Completion Certification
- 2. Case Closure Summary

CC:

Leroy Griffin (w/enc)
Oakland Fire Department
250 Frank H. Ogawa Plaza, Ste. 3341
Oakland, CA 94612-2032

Mr. Peter McIntyre (w/o enc) AEI Consultants 2500 Camino Diablo, Suite 100 Walnut Creek, CA 94597

D. Drogos (w/enc)
Jerry Wickham (w/orig enc),
Geotracker (w/enc)
File (w/enc)

Closure Unit (w/enc)
State Water Resources Control Board
UST Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120

Mr. Robert Flory (w/o enc) AEI Consultants 2500 Camino Diablo, Suite 100 Walnut Creek, CA 94597

# ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



ALEX BRISCOE, Acting Director

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

#### REMEDIAL ACTION COMPLETION CERTIFICATION

December 4, 2009

Mr. Cory Kauffmann Cruise America, Inc. 11 West Hampton Avenue Mesa, AZ 85210 McGuire and Hester 9009 Railroad Avenue Oakland, CA 94603

Subject: Fuel Leak Case No. RO0002449 and Geotracker Global ID T06019713704, Cruise America, 796 66<sup>th</sup> Avenue, Oakland, CA 94621 – Case Closure

Dear Mr. Kauffman:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

Ariu L'evi Director

Alameda County Environmental Health

# CASE CLOSURE SUMMARY LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM

#### I. AGENCY INFORMATION

Date: October 28, 2009

| Agency Name: Alameda County Environmental Health | Address: 1131 Harbor Bay Parkway             |
|--|--|
| City/State/Zip: Alameda, CA 94502-6577           | Phone: (510) 567-6791                        |
| Responsible Staff Person: Jerry Wickham          | Title: Senior Hazardous Materials Specialist |

#### II. CASE INFORMATION

| Site Facility Name: Cruise America/McGuire Hester                     |  |               |              |  |  |  |
|---|--|---------------|--------------|--|--|--|
| Site Facility Address: 796 66 <sup>th</sup> Avenue, Oakland, CA 94621 |  |               |              |  |  |  |
| RB Case No.: 01-0953 Local Case No.: LOP Case No.: RO0002449          |  |               |              |  |  |  |
| URF Filing Date: 05/29/2002   | Geotracker ID: T0600100878               | APN:          | 41-3901-4    |  |  |  |
| Responsible Parties   | Addresses                                | Phone Numbers |              |  |  |  |
| Cory Kauffmann, Cruise<br>America Inc.                                | 11 West Hampton Avenue<br>Mesa, AZ 85210 |               |              |  |  |  |
| McGuire Hester  | 9009 Railroad Avenue, Oakland, CA 94603  |               | 510-632-7676 |  |  |  |
|   |  |               |              |  |  |  |

| Tank I.D. No | Size in Gallons | Contents          | Closed<br>In Place/Removed? | Date       |
|--------------|-----------------|-------------------|-----------------------------|------------|
| T1           | 1,000 gallons   | Unleaded Gasoline | Removed                     | 1/16/1987  |
| Т2           | 5,000 gallons   | Unleaded Gasoline | Removed                     | 1/16/1987  |
| Т3           | 8,000 gallons   | Diesel            | Removed                     | 1/16/1987  |
| Т4           | 10,000 gallons  | Gasoline          | Removed                     | 11/30/2001 |
|              | Piping          |                   | Removed                     | 11/30/2001 |

#### III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. T1 (gasoline) was rusted near fill port and the seams were pitted but did not have obvious holes or other signs of leakage. T2 (gasoline) was rusted and pitted and a petroleum-stained area on the bottom of the tank suggested that a hairline fracture was present. No rust, pitting, or other signs of failure were observed in T3 (diesel) or T4 (gasoline).

Site characterization complete? Yes

Date Approved By Oversight Agency: ---
Monitoring wells installed? Yes

Number: 9

Proper screened interval? Yes

Highest GW Depth Below Ground Surface: 3.9 feet bgs

Flow Direction: Southeast

Most Sensitive Current Use: Potential drinking water source.

#### Summary of Production Wells in Vicinity:

No active water supply wells appear to be located within ½ mile of the site. The Fitchburg well group, which historically consisted of about 20 municipal supply wells, was located approximately 950 feet southeast of the site. The precise locations and the methods used for decommissioning the Fitchburg group are unknown. The nearest active water supply well appears to be an industrial well at American Brass & Iron Foundry, which is located approximately 3,325 feet southeast of the site. The American Brass & Iron Foundry, which is screened from 450 to 495 feet bgs, is not expected to be a receptor for the site based on the distance from the site and upgradient location. An EBMUD test well is located approximately 3,040 feet northwest of the site. The EBMUD test well is not expected to be a receptor for the site based on the distance from the site and upgradient location. Several observation wells are located at the Coliseum, approximately 1,100 to 2,300 feet south to southeast of the site. Based on the distance from the site, the Coliseum observation wells are not expected to be receptors for the site.

| Are drinking water wells affected? No            | Aquifer Name: East Bay Plain   |
|--|--|
| Is surface water affected? No                    | Nearest SW Name: Damon Slough borders the site to the southeast.   |
| Off-Site Beneficial Use Impacts (Addresses/Locat | tions): None   |
| Reports on file? Yes                             | Where are reports filed? Alameda County Environmental Health, City of Oakland Fire Department, and the State Water Resources Control Board GeoTracker website. |

|              | TREATMENT A            | AND DISPOSAL OF AFFECTED MATERIAL  |            |
|--------------|------------------------|--|------------|
| Material     | Amount (Include Units) | Action (Treatment or Disposal w/Destination)   | Date       |
| Tank         | 4 tanks                | Treatment and disposal of tanks T1 through T3 not reported. T4 disposed off-site at Ecology Control Industries in Richmond, CA | 11/29/2001 |
| Piping       | Not reported           | Disposed off-site at Ecology Control<br>Industries in Richmond, CA   | 11/29/2001 |
| Free Product |                        |  |            |
|              | 1,000 cubic yards      | Spread on site for aeration and then disposed off-site; off-site destination not reported.                                     | 1989       |
| Soil         | 60 cubic yards         | Soil was transported off-site to Keller Canyon<br>Landfill in Pittsburg, CA for disposal.                                      | 2/18/2009  |
| Groundwater  | 3,400 gallons          | Disposed off-site at Waste Management in Altamont, CA  | 11/2001    |
| Gioundwater  | 930 gallons            | Disposed off-site at Riverbank Oil Transfer,<br>River Bank, CA   | 2/12/2009  |

## MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP (Please see Attachments 1 through 6 for additional information on contaminant locations and concentrations)

|                                   | Soil (                                   | ppm)                                     | Water (ppb)  |              |  |
|-----------------------------------|--|--|--------------|--------------|--|
| Contaminant                       | Before                                   | After                                    | Before       | After        |  |
| TPH (Gas)                         | 15,000                                   | 270                                      | 60,000(1)    | <50(1)       |  |
| TPH (Diesel)                      | 3,400                                    | 180                                      | 3,400        | 990          |  |
| TPH (Motor Oil)                   | 3,400                                    | 110                                      | 360          | 360          |  |
| Oil and Grease                    | 32,000                                   | 32,000                                   | Not analyzed | Not analyzed |  |
| Benzene                           | 21                                       | 0.79                                     | 590(2)       | <0.5(2)      |  |
| Toluene                           | 840                                      | 0.31                                     | 5,100(3)     | <0.5(3)      |  |
| Ethylbenzene                      | 300                                      | 0.2                                      | 640(4)       | <0.5(4)      |  |
| Xylenes                           | 1,700                                    | 1.6                                      | 3,500(5)     | <0.5(5)      |  |
| Heavy Metals (Cd, Cr, Pb, Ni, Zn) | 1,300(6)                                 | 1,300(6)                                 | 0.021(7)     | 0.021(7)     |  |
| MTBE                              | 53(8)                                    | 6.5(9)                                   | 49,000(10)   | 22(11)       |  |
| Other (8240/8270)                 | Not detected at various reporting limits | Not detected at various reporting limits | Not analyzed | Not analyzed |  |

(1) The maximum concentration of TPHg before cleanup was 44,000 ppb in a grab groundwater sample collected from the open tank pit 11/30/2001; TPHg was not detected in groundwater samples collected during the most recent groundwater monitoring on 3/13/2008.

(2) The maximum concentration of benzene before cleanup was 590 ppb in a grab groundwater sample collected from the open tank pit 11/30/2001; benzene was not detected in groundwater samples collected during the most recent groundwater monitoring on 3/13/2008.

(3) The maximum concentration of toluene before cleanup was 5,100 ppb in a grab groundwater sample collected from the open tank pit 11/30/2001; toluene was not detected in groundwater samples collected during the most recent groundwater monitoring on 3/13/2008.

(4) The maximum concentration of ethylbenzene before cleanup was 640 ppb in a grab groundwater sample collected from the open tank pit 11/30/2001; ethylbenzene was not detected in groundwater samples collected during the most recent groundwater monitoring on 3/13/2008..

(5) The maximum concentration of xylenes before cleanup was 3,500 ppb in a grab groundwater sample collected from the open tank pit 11/30/2001; xylenes were not detected in groundwater samples collected during the most recent groundwater monitoring on 3/13/2008..

(6) Lead = 1,300 ppm; cadmium = 7 ppm; chromium = 57 ppm; nickel = 130 ppm; and zinc = 100 pm.

- (7) Lead was the only metal analyzed in groundwater.
- (8) MTBE = 53 pm; no analyses for other fuel oxygenates, EDB, or EDC in soil.
- (9) MTBE = 6.5 pm; no analyses for other fuel oxygenates, EDB, or EDC in soil.

(10) The maximum concentration of MTBE before cleanup was 42,000 ppb in a grab groundwater sample collected from the open tank pit 11/30/2001; TBA = 6,800 ppb; DIPE = <0.5 ppb; TAME <0.5 ppb; ETBE <0.5 ppb; EDB <0.5 ppb; and EDC <0.5 ppb.

(11) The maximum concentration of MTBE after cleanup was 22 ppb in groundwater samples collected during the most recent groundwater monitoring on 3/13/2008; TBA = 780 ppb.

Site History and Description of Corrective Actions:

vehicle rental The site is occupied by Cruise America, which is а recreational Two buildings exist on site and are surrounded by paved parking areas. Nearby properties are also commercial properties. Prior to Cruise America acquiring the site in August 1988, the site was occupied from 1957 to 1988 by McGuire Hester, a construction company. The site was reportedly was used as a slaughter and meat packing facility prior to 1956.

Three underground storage tanks were removed from three separate tank pits in January 1987. T1 was a 1,000-gallon gasoline tank; T2 was a 5,000-gallon gasoline tank, and T3 was an 8,000-gallon diesel tank. Petroleum hydrocarbons as gasoline (TPHg) were detected in soil samples collected beneath T1 and T2 at concentrations up to 758 ppm. TPH as diesel (TPHd) was detected in soil samples collected beneath T3 at concentrations up to 492 ppm. Standing water in the tank pits had a visible hydrocarbon sheen and product odor.

One monitoring well was installed adjacent to each former tank in January 1987 (AGS-MW-1, AGS-MW-2, and AGS-MW-3). TPHd was detected in soil samples from AGS-MW-3, which was adjacent to the diesel tank, at concentrations up to 1,750 ppm. Soil samples collected from borings AGS-MW-1 and AGS-MW0-2 near the gasoline tanks contained minor concentrations of TPHg and BTEX.

On February 17, 1988, Purcell, Rhoades, & Associates advanced three shallow borings and installed three temporary monitoring wells (B-4 through B-6 and PRA-MW-1 through PRA-MW-3). TPHg and TPHd were detected in soil at concentrations up to 270 and 74, ppm, respectively. Oil & Grease was detected in a soil sample from boring B-4 at a concentration of 32,000 ppm.

Between May 25, 1988 and July 27, 1988, a total of 15 soil borings were advanced as part of a geotechnical investigation for construction of the Cruise America facility. A petroleum odor was noticed in several of the geotechnical borings. During the construction activities in 1988, contamination was observed in the area of the gasoline UST (presumed to be T4) and the existing waste oil tank currently located adjacent to the Repair Building. Remediation of these areas was recommended by Kaldveer Associates, the environmental consultant for the site in 1989; however, there is no documentation to indicate that remediation of these areas took place during the construction activities. Cleanup of the T4 area took place between 2002 and 2009. Although no cleanup has been conducted adjacent to the existing waste oil tank, one soil boring (SB-21) was advanced adjacent to the waste oil tank in 2009. TPHd and TPHmo were detected in soil from SB-21 at concentrations up to 180 ppm and 110 ppm, respectively. Based on the results from boring SB-21, the extent of contamination appears to be limited in the area of the waste oil tank.

On July 11, 1988, eleven soil borings (B20 through B30) were advanced in the area surrounding the diesel tank pit. High boiling point hydrocarbons were detected in soil samples from the shallow borings at concentrations up to 42 ppm. As part of the July 1988 investigation, groundwater samples were collected from wells PRA-MW-1, PRA-M-2, and AGS-MW-3. High boiling point hydrocarbons were detected in groundwater at concentrations ranging from 720 to 60,000 ppb.

Between July 28, 1988 and August 1, 1988, the former diesel tank (T3) pit area was excavated to a depth of 15 feet bgs. Soil with visible staining or odor outside the diesel tank pit was reportedly excavated to a depth of 5 feet bgs. Seven soil samples were collected from the base and sidewalls of the excavation (S-1 through S-7) following the initial excavation. Based on sample analytical results from samples, S-2 and S-4, the excavation was continued and three additional soil samples were collected on August 1, 1988 (S-8 through S-10). During the excavation, buried timbers with creosote were observed. The area of the diesel tank was backfilled with clean, imported fill. Following the exploratory excavation, an additional monitoring well, PRA-MW-4, was installed adjacent to the excavation area. Groundwater from PRA-MW-4 contained TPHd at a concentration of 2,300 ppb.

On October 17, 1988, composite soil samples were collected from the stockpiled soil from the excavation. The stockpiled soil remained on site awaiting treatment or disposal. On November 1, 1998, a Notice of Violation was issued as a result of a site inspection by ACEH. Additional soil samples were collected from the soil stockpile on November 21, 1998 prior to off-site disposal.

In July 2001, six soil borings (SB-1 through SB-6) were advanced in the area of the former gasoline tanks (T1 and T2) and the former diesel tank (T3) to assess whether residual soil or groundwater contamination remained from the former USTs that were removed in 1988. TPHg and TPHd were detected at low concentrations in groundwater but MTBE was detected at an elevated concentration of 650 ppb in a grab groundwater sample from boring SB-1.

In September 2001, an additional five soil borings were advanced (SB-7 through SB11) in order to find the source of high levels of MTBE found in SB-1. A groundwater sample collected from SB-7 did not contain MTBE at concentrations above reporting limits. MTBE concentrations varied from 630 ppb in SB-9 to 13,000 ppb in SB-10. Based on these data, a leak

in the remaining 10,000-gallon UST on the southern portion of the property (T4) was interpreted to be the most likely source of MTBE.

On November 30, 2001, the 10,000-gallon gasoline tank (T4) was removed. Soil samples collected from the tank pit and dispenser area contained TPHg at concentrations up to 280 ppm. Benzene and MTBE were detected at concentrations up to 53 and 13 ppm, respectively along the southern and eastern sidewalls of the excavation at a depth of approximately 6.5 feet bgs. TPHg and MTBE were detected in a groundwater sample from the tank pit excavation at 44,000 ppb and 42,000 ppb, respectively.

In response to the contamination observed during removal of the gasoline tank (T4), a fuel leak case was opened by ACEH on May 21, 2002 and an Unauthorized Release Form was submitted on May 29, 2002. No case closure or other documentation was located for the investigation and excavation conducted prior to 2001. Therefore, this case closure also evaluates the results from the investigation and excavation conducted in 1987 and 1988 for the tanks T1 through T3.

On September 6, 2002, six soil borings (SB-12 through SB-17) were advanced at the site. Data from the soil borings were used to locate five monitoring wells (MW-1 through MW-5), which were installed on September 19, 2002. Groundwater monitoring was conducted at the site from 2002 to 2008.

A twelve-point ozone sparging system was installed around the area of the 10,000-gallon gasoline tank (T4) between May and July 2004. The sparging system operated through July 2006. The ozone sparging system remained off for several months to monitor possible rebound. In July 2008, five soil borings (SB-18 through SB-22) were advanced to confirm the effectiveness of the ozone sparging in reducing contaminant mass in the area of the former gasoline tank (T4). Significant concentrations of TPHg, MTBE, and TBA were detected in a groundwater sample from boring B-18. Based on the elevated concentrations of chemicals of concern detected in soil and groundwater from SB-18, excavation was recommended in the localized area of boring SB-18.

On February 12, 2009, the soil around borings SB-13 and SB-18 were excavated to a depth of 6.5 feet bgs. Following receipt of analytical results, which showed TPHg in soil at a concentration of 160 ppm, the excavation was extended several feet northwest. During the excavation, a debris layer consisting of trash, wood, cardboard, and black-stained soil was observed in the lower part of the excavation. The debris and stained soil appears to have been emplaced with the fill material that was used to fill in low-lying wetlands areas at the site sometime prior to 1956. The source and content of the debris and black-stained fill material has not been evaluated as part of this fuel leak case.

#### **IV. CLOSURE**

List Enforcement Actions Rescinded: --

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions. Site Management Requirements: Case closure for the fuel leak site is granted for the current commercial land use only. This closure applies only to the former UST fuel systems circa 1987 and 2001. If a change in land use to any residential or other conservative land use scenario occurs at this site, Alameda County Environmental Health (ACEH) must be notified. ACEH will re-evaluate the case upon receipt of approved development/construction plans. Excavation or construction activities in areas not part of this case closure including: the debris and black-stained fill material, wash pad, hoists, pump-out area, or transformer pad require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities. This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site. Should corrective action be reviewed if land use changes? Yes. If land use or building configuration is to change to other commercial development or more conservative land use scenarios such as residential, Alameda County Environmental Health must be notified. The case will be re-evaluated upon receipt by Alameda County Environmental Health of approved development/construction plans. Date Recorded: --Was a deed restriction or deed notification filed? No Number Decommissioned: 4 Number Retained: 5 Monitoring Wells Decommissioned: Yes List Enforcement Actions Taken: None

#### V. ADDITIONAL COMMENTS, DATA, ETC.

#### Considerations and/or Variances:

During construction activities in 1989, soil contamination was observed in the area of the former gasoline USTs (presumed to be T1 and T2) and a waste oil tank excavation; however, available documentation of the construction activities is poor. No maps or other documentation was found to confirm the locations of the observed soil contamination. The waste oil tank excavation was presumed to be an excavation for a new 500-gallon waste oil tank that was installed in 1989 adjacent to the Repair Building. The source of contamination in the excavation is unknown since no UST was known to exist at this location prior to 1989. Remediation of the former gasoline UST and waste oil UST excavation areas was recommended by Kaldveer Associates, the environmental consultant for the site in1989. There is no documentation to indicate that remediation of these areas took place during the construction activities or prior to 2002. Soil and groundwater samples were collected in the area of the former gasoline tanks (T1 and T2) in 2001. The concentrations of TPH in The maximum concentrations of TPHg detected in soil and groundwater in the area of the former gasoline tanks was 16 ppm and 120 ppb, respectively. One soil boring (SB-21) was advanced adjacent to the waste oil tank on July 1, 2008. TPHd and TPHmo were detected in soil at concentrations up to 180 ppm and 110 ppm, respectively. Based on these results the extent of residual contamination in these areas appears to be limited.

No soil vapor sampling was conducted at the site. Prior to remediation by ozone sparging and excavation, benzene was detected at elevated concentrations in two soil samples (East 61/2 and SB-13 4') collected in the immediate area of the former T4 tank. Benzene has not been detected at elevated concentrations in groundwater samples collected from soil borings or monitoring wells in this area. During the most recent groundwater sampling event in 2008, benzene was not detected in groundwater samples collected from the five monitoring wells. Based on these results, soil vapor sampling does not appear to be warranted for the site.

Debris and black-stained soils have been encountered in excavations at the site. The debris and stained soil appears to have been emplaced with the fill material that was used to fill in low-lying wetlands areas at the site sometime prior to 1956. The source and content of the debris and black-stained soil has not been evaluated as part of this fuel leak case.

Features related to the Repair Building including a vehicle wash pad, hydraulic hoists, RV pump-out area, and transformer pad were not evaluated as part of this fuel leak case and is not considered part of this fuel leak closure.

EDB and EDC were not analyzed in soil.

#### Conclusion:

Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment based upon the information available in our files to date. No further investigation or cleanup for the fuel leak case is necessary. ACEH staff recommend case closure for this fuel leak case.

#### VI. LOCAL AGENCY REPRESENTATIVE DATA

| Prepared by: Jerry Wickham        | Title: Senior Hazardous Materials Specialist      |
|-----------------------------------|---|
| Signature: Jern Wickston          | Date: 11/03/09                                    |
| Approved by: Donnall Drogos, P.E. | Title: Supervising Hazardous Materials Specialist |
| Signature                         | Date: ///3/09                                     |

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

#### VII. REGIONAL BOARD NOTIFICATION

| Regional Board Staff Name: Cherie McCaulou   | Title: Engineering Geologist |
|--|------------------------------|
| RB Response: Concur, based solely upon information contained in this case closure summary. | Date Submitted to RB:        |
| Signature/h W Caul   | Date: 11/4/09                |

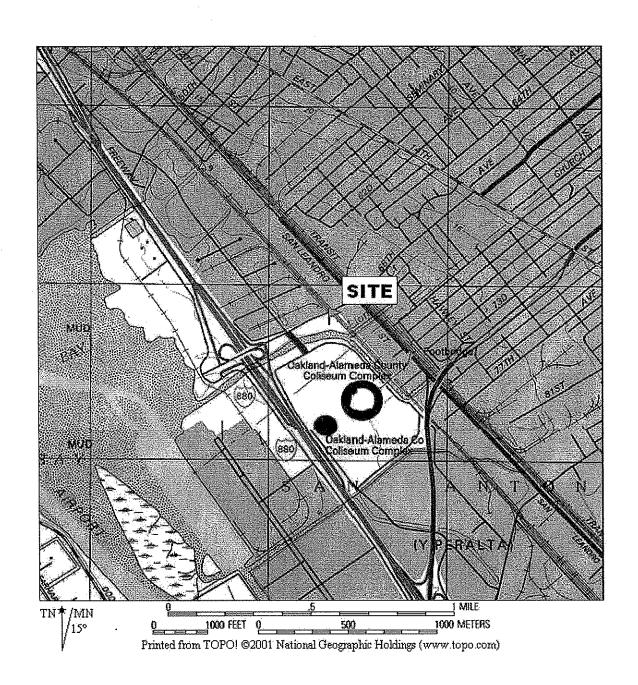
#### VIII. MONITORING WELL DECOMMISSIONING

| Date Requested by ACEH: ৻৻ৄৢৢৢৢৢৢৢৢৢৢঀৢ           | Date of Well Decommissioning Re   | port: 12/03/09                          |
|---|-----------------------------------|---|
| All Monitoring Wells Decommissioned: (es) No      | Number Decommissioned: 17         | Number Retained: Ø                      |
| Reason Wells Retained: NA                         |                                   |   |
| Additional requirements for submittal of groundwi | ater data from retained wells: No | ne                                      |
| ACEH Concurrence - Signature:                     | Midslew                           | Date: 12/04/09                          |
|   |                                   | 111111111111111111111111111111111111111 |

#### Attachments:

- 1. Site Vicinity Map (1 p)
- 2. Site Plans (9 pp)
- 3. Fence Diagrams, MTBE Isopleth, Sample Location Maps, MTBE vs Time (8 pp)
- 4. Soil Analytical Data (16 pp)
- 5. Groundwater Analytical Data (8 pp)
- 6 Boring Logs (32 pp)

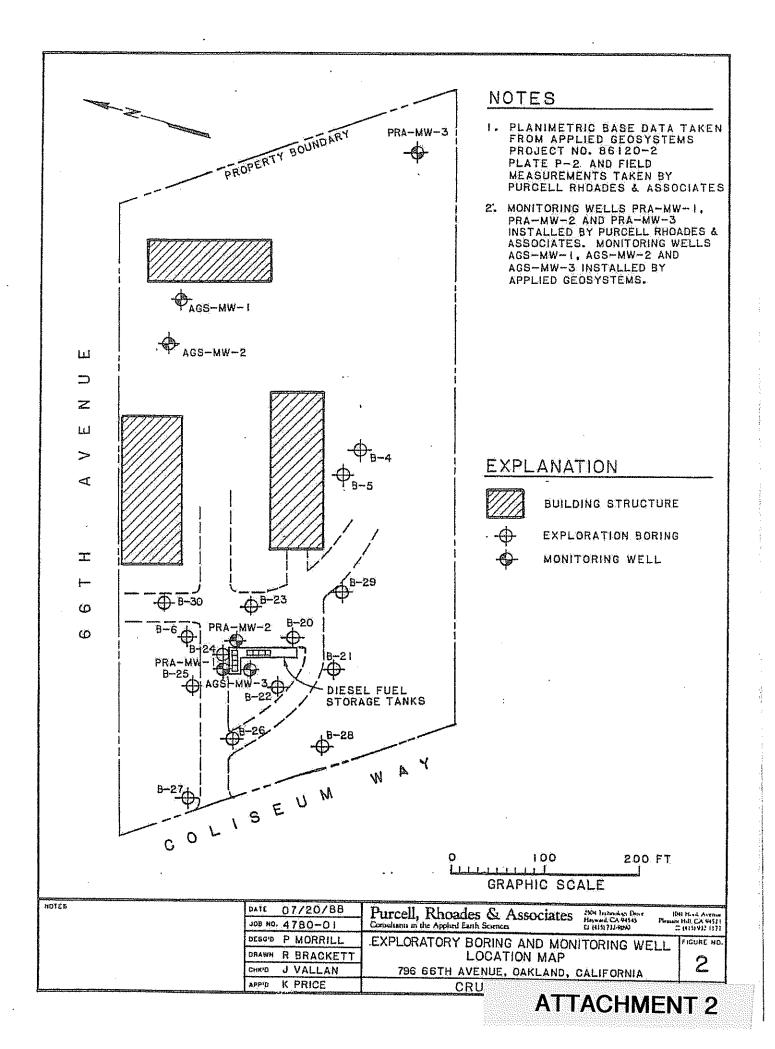
This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.

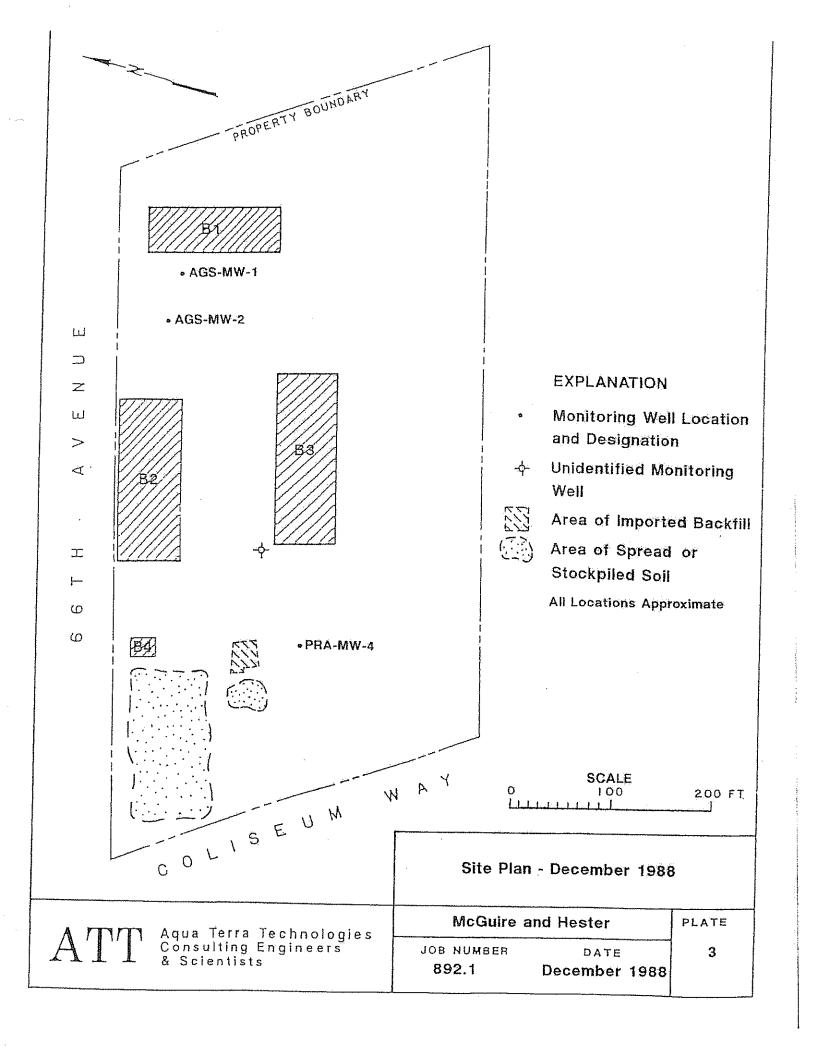


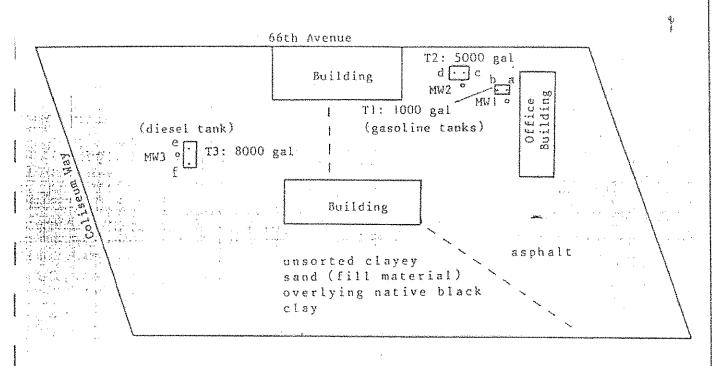
# AEI CONSULTANTS SITE LOCATION MAP 6 66<sup>th</sup> AVENUE FIGURE 1

796 66<sup>th</sup> AVENUE OAKLAND, CALIFORNIA

FIGURE 1 PROJECT No. 278361







sample location

a. SE-8-T!

b. SW-8-T1

c. SE-10-T2

d. SW-10-T2

e. SN-9-T3

f. SS-9-T3

Source: measured by Applied GeoSystems by tape and compass method

MWI o monitoring well location

Approximate Scale

0 100 200
Feet

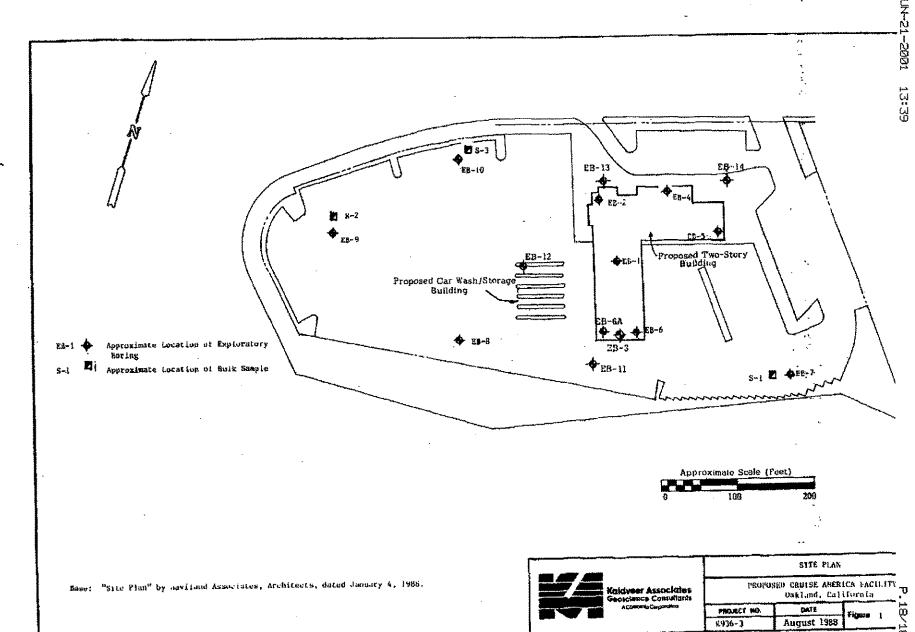


GENERALIZED SITE PLAN
McGuire and Hester
796 66th Avenue
Oakland, California

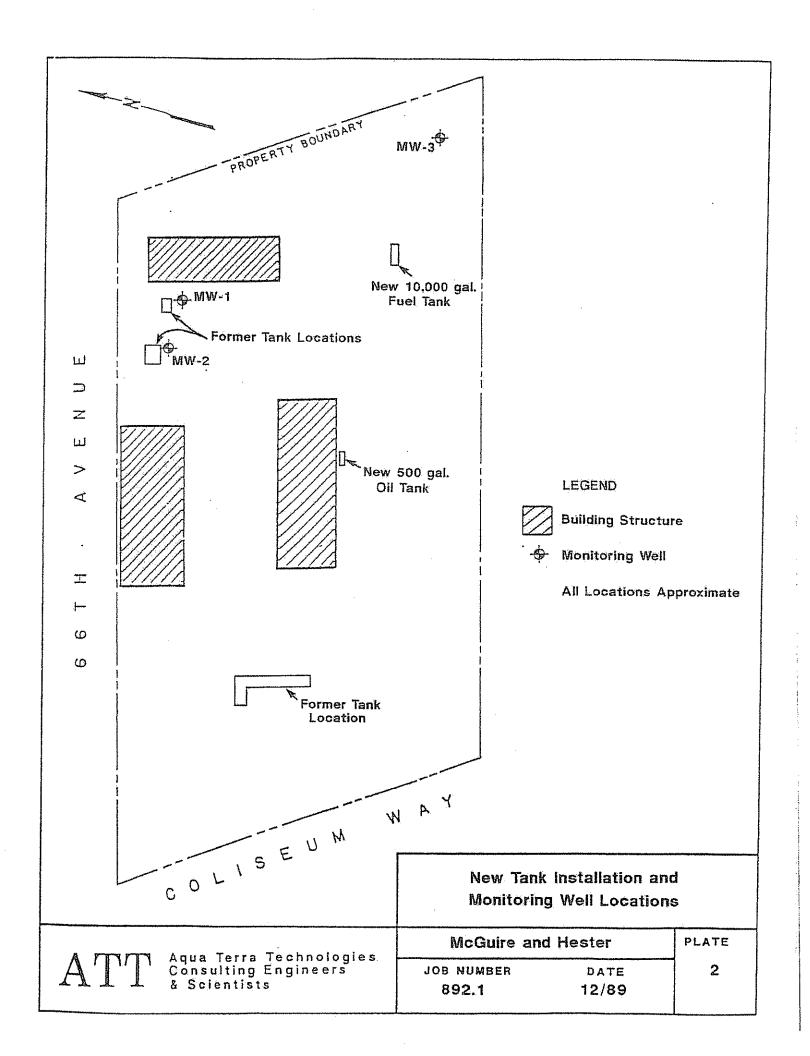
PLATE

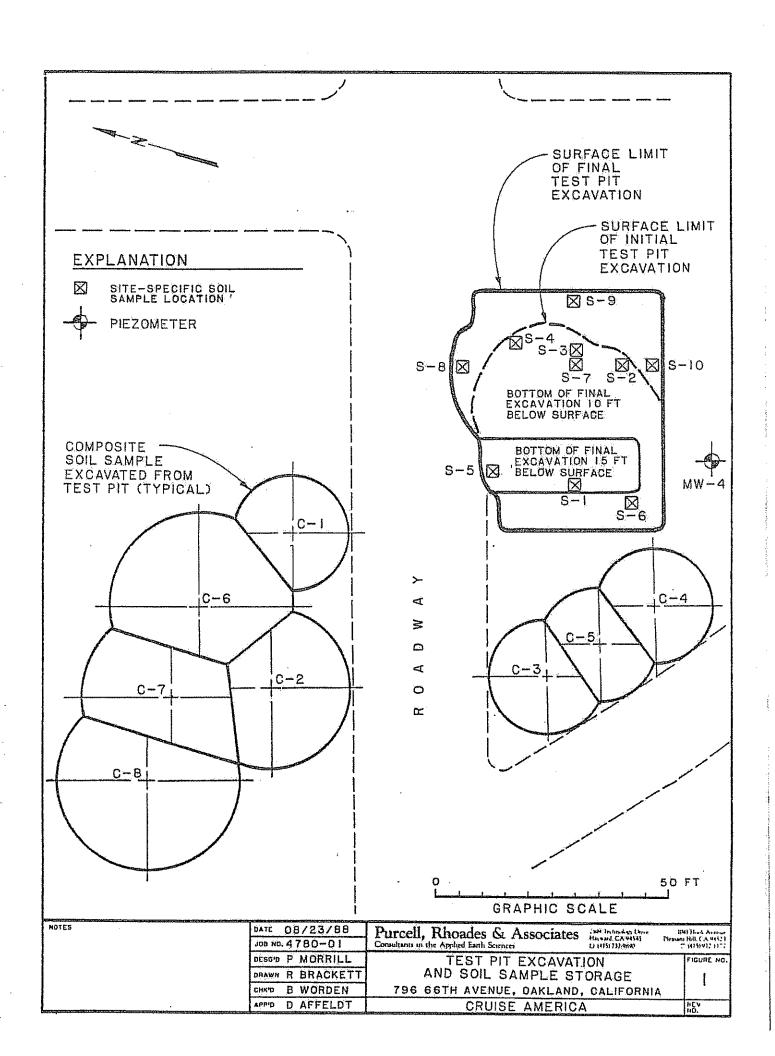
P-2

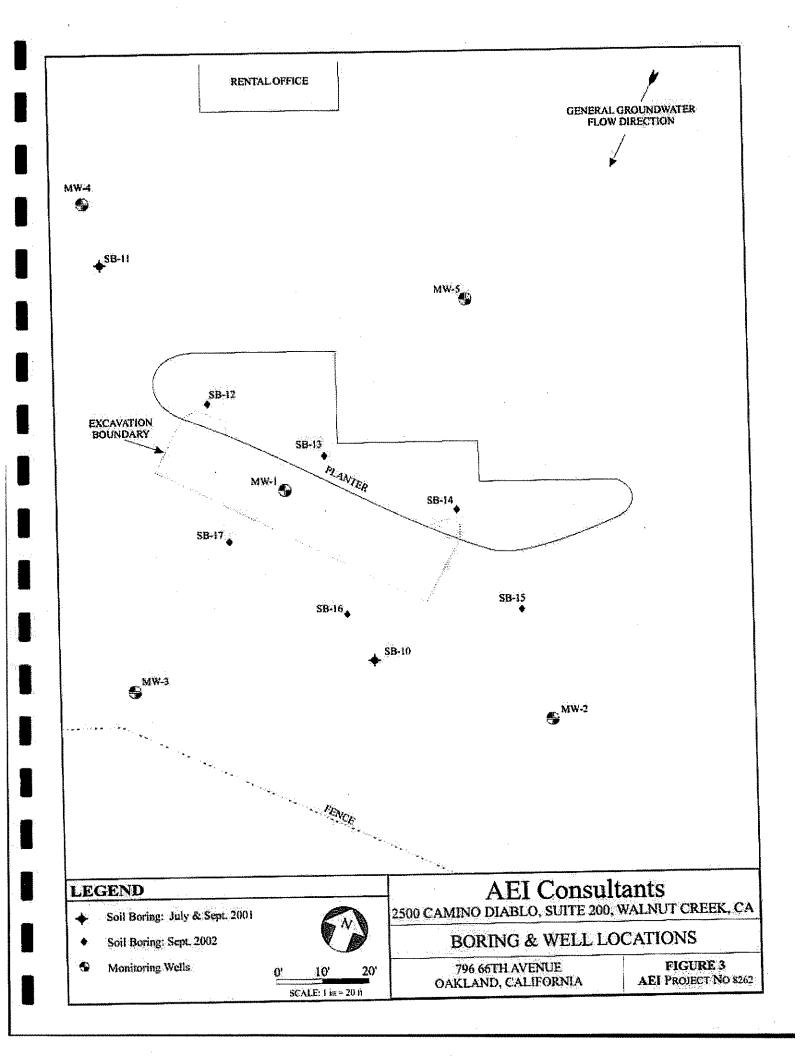
PROJECT NO. 86120-2

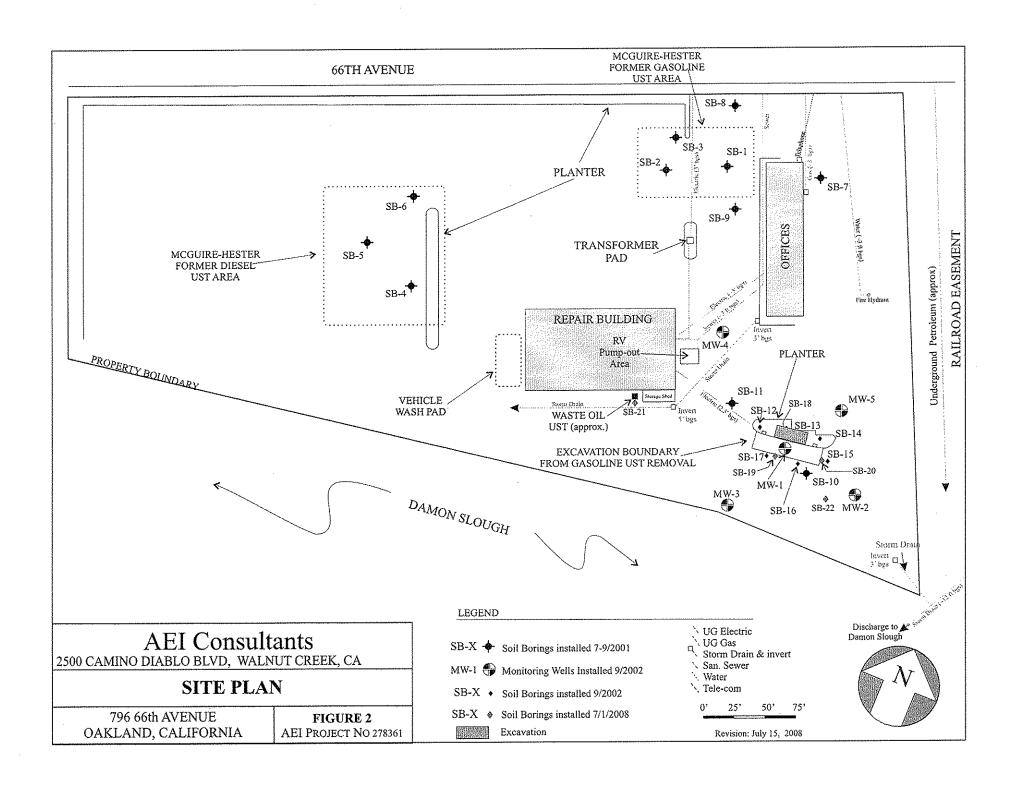


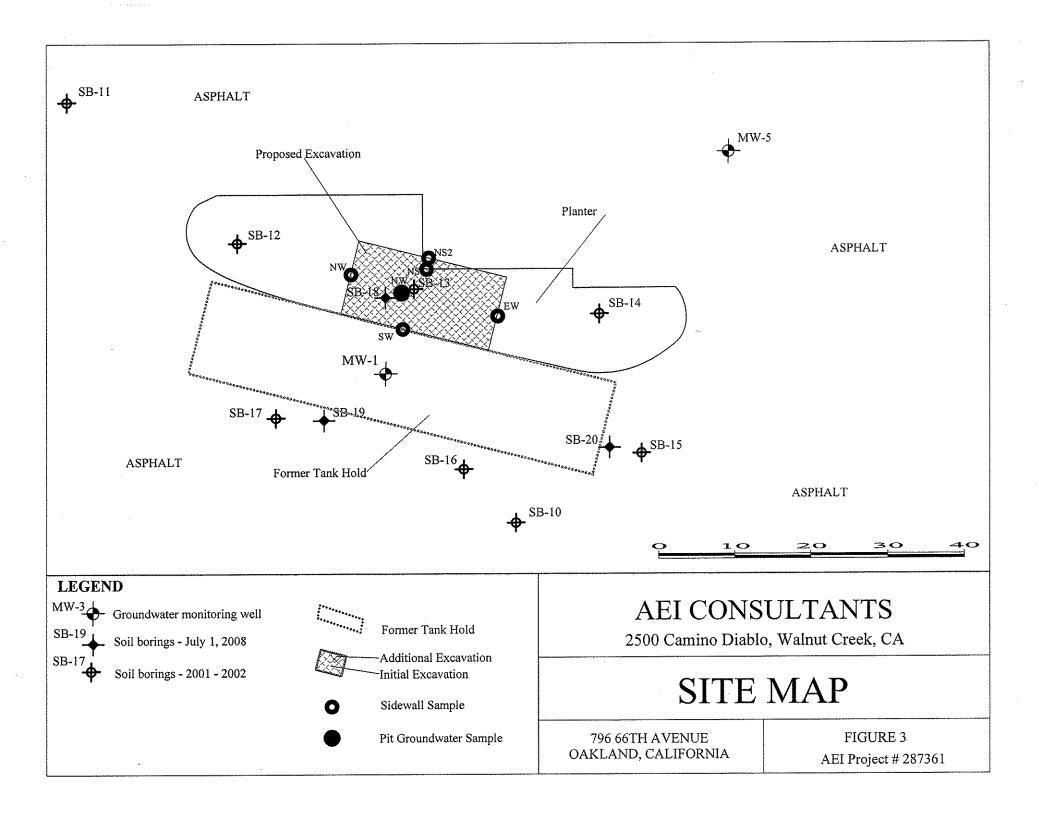
TOTAL P. 18

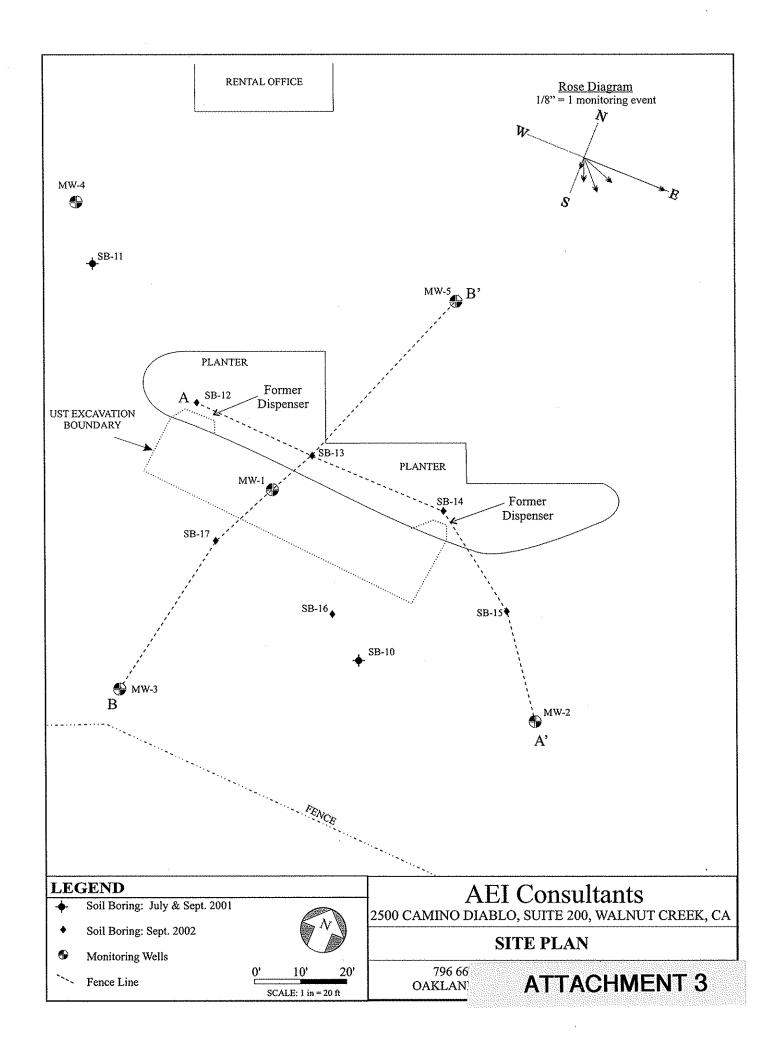


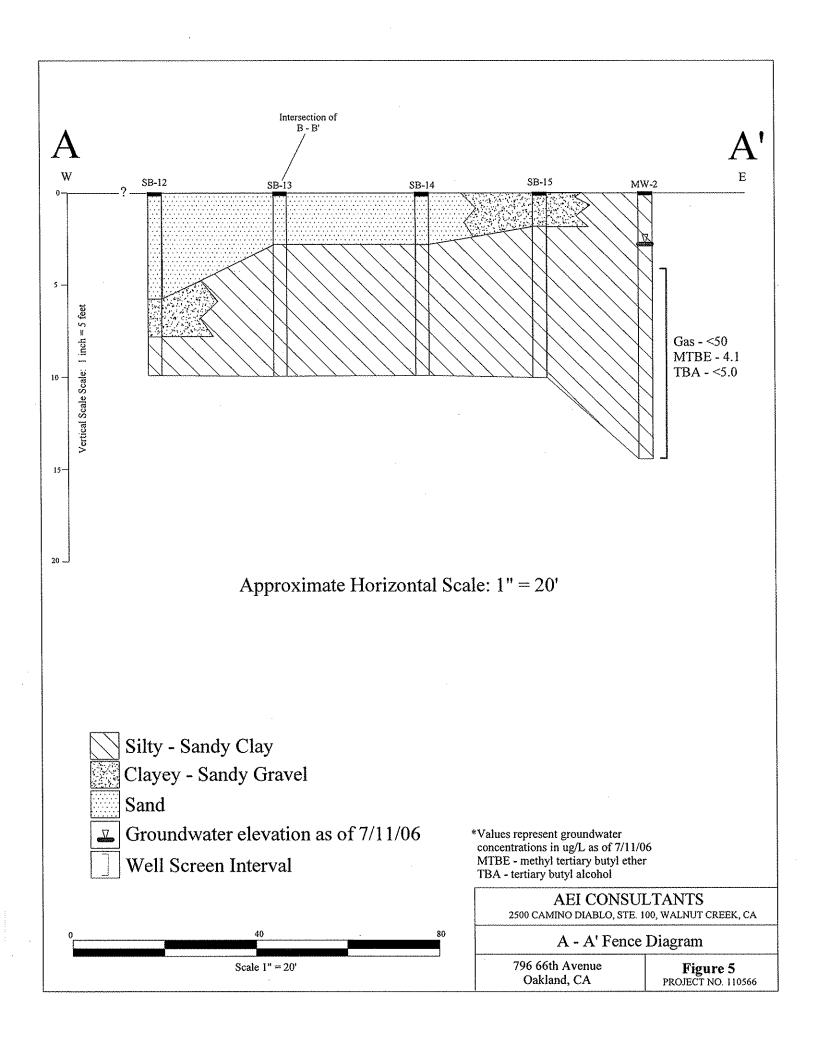


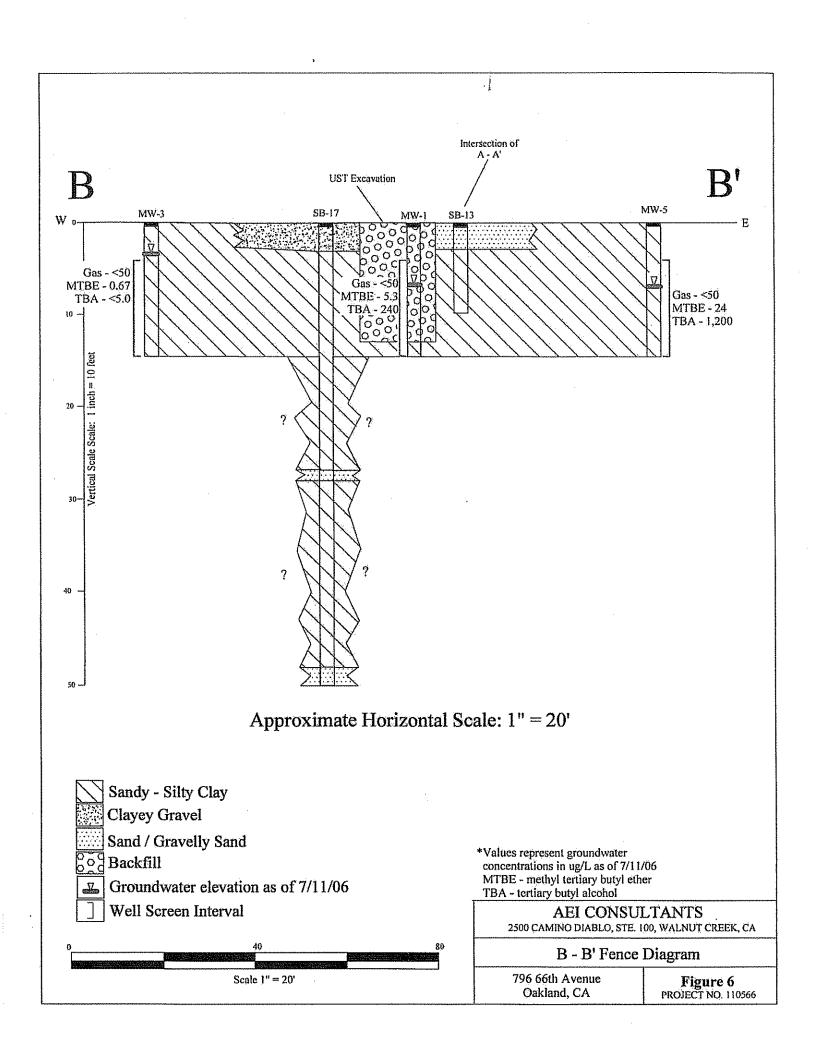


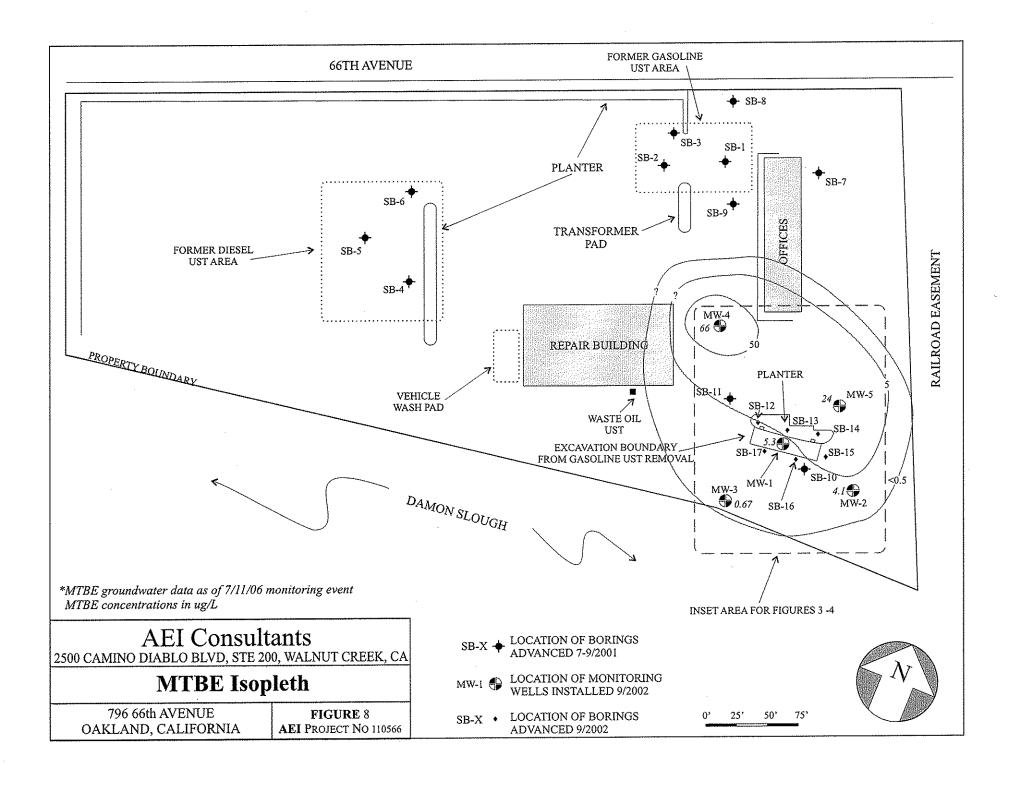












RENTAL OFFICE

MW-4



🛦 SB-11

MW-5 4

Disp-West 3" PLAINTHU TPH-8 MTBE Lino 4.0 11.25 \$9-12 Harricane. GW Dlsp-Essi 3' CEAR. TP15-g 44,000 MT33E 42,000 110 ren-e -11.20 MITH EXCAVATION BOUNDARY Martina gerouenenker 色線的 311-13 1,1,1,1 LEAD MW-I 5B-\$4 WEST 6% TPH 2 ND 自鄉 MITTE Nepreside 3.3 58-17 LEAD South of TPH48 MYBE 100 # SIL15 Describe AUDI 59-16 TEAD 1300 East 6% TPHE MINE MW-3 SB-10 eign son c LEAD MW-2

#### LEGEND

MONITORING WELL LOCATION

MW-X 4 SB-X SOIL SAMPLES COLLECTED 9/6/02 WEST X SOIL SAMPLES COLLECTED 11/30/01

**♦**. SB-X SOIL SAMPLES COLLECTED 7/17 &9/28/01 TPH-g Total Petroleum Hydrocarbons as gasolino

MTBE Methyl Teniary Buryl Ether
Expressed as: result by EPA 8020/ result by EPA 8260
LFAD Total Lead Expressed as: TTLC/SRLC

Soil sample results in mg/kgGroundwater results in mg/L, except feed (mg/L)



#### **AEI Consultants**

3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

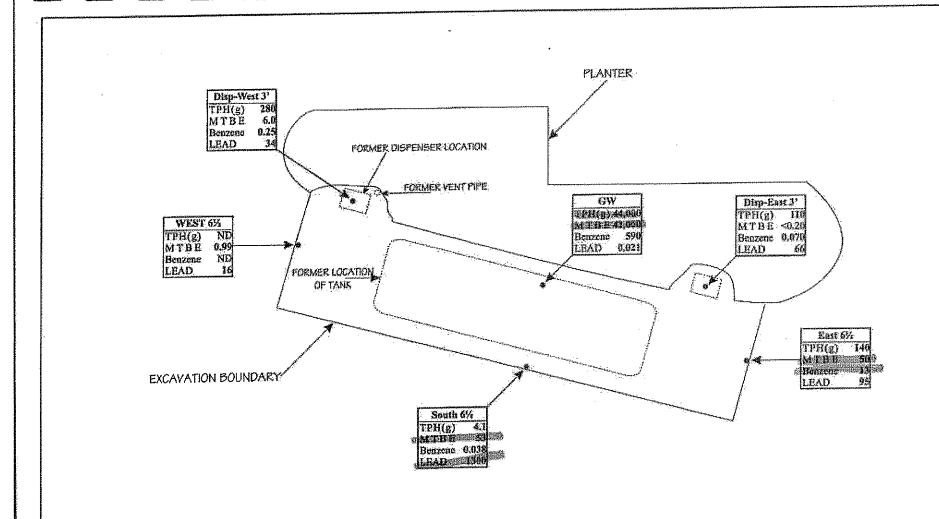
DRAWNBY: N. GARFIELD SCALE F" \* 20"

DATE: (021/2002

TANK REMOVAL ANALYTICAL RESULTS

796 66TH AVENUE OAKLAND, CALIFORNIA

FIGURE 7 **AEI** PROJECT NO 5526



# **AEI Consultants**

3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

SCALE: 1"-11"

DRAWN BY: J. DRMEROD

DATE: 12/17/01

## SAMPLE LOCATION MAP

796 66TH AVENUE OAKLAND, CALIFORNIA DILAWING NUMBER: FIGURE 3

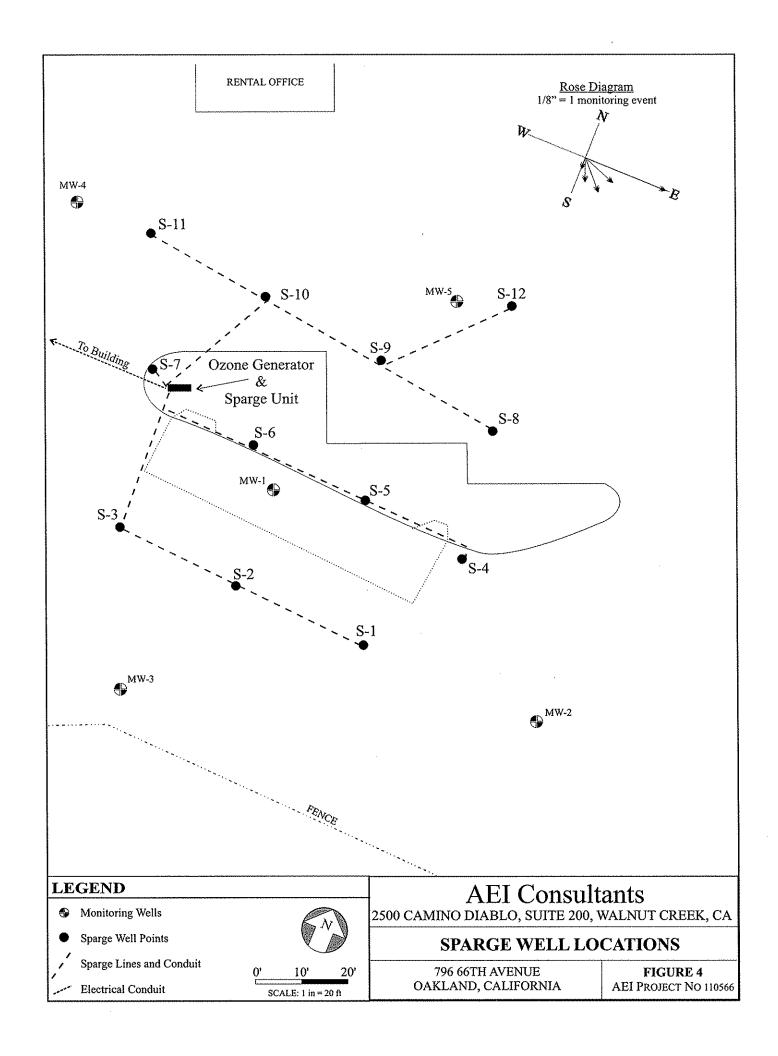
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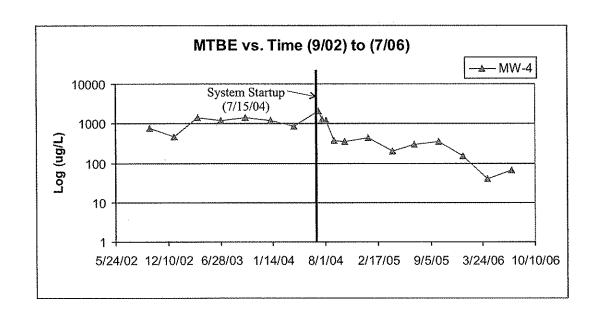
- GROUNDWATER SAMPLE LOCATION
- SOIL SAMPLE LOCATION

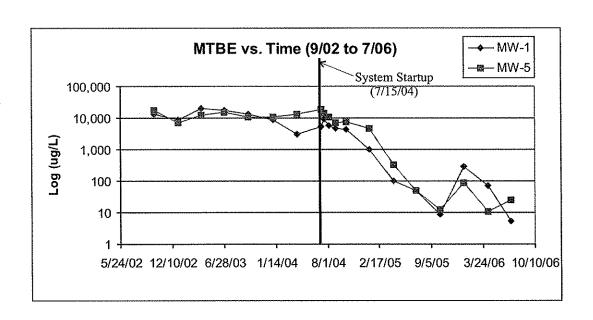
TPH(E) TOTAL PETROLEUM HYDROCARBON AS GASOLINE MTBE METRYL TERTIARY BUTYL ETHER LEAD TOTAL LEAD

GROUNDWATER RESULTS IN 110/L.

SOIL SAMPLE RESULTS IN mg/kg







### AEI Consultants

2500 CAMINO DIABLO, STE 200, WALNUT CREEK, CA

MTBE vs. TIME: MW-1, MW-4 & MW-5

796 66TH AVENUE OAKLAND, CALIFORNIA FIGURE 7 AEI PROJECT NO 110566

Table 1
Historical Soil Analytical Data
796 66<sup>th</sup> Avenue, Oakland, California

| Sample<br>ID | Date       | TPH-g                                | TPH-d | TPH-mo | MTBE     | TBA | MTBE  | Benzene | Toluene        | Ethyl<br>benzene | Xylenes | Lead          |
|--------------|------------|--------------------------------------|-------|--------|----------|-----|-------|---------|----------------|------------------|---------|---------------|
| ***          |            | 8015 8260<br>mg/kg mg/kg mg/kg mg/kg |       |        |          |     |       | mg/kg   | 8021B<br>mg/kg | mg/kg            | mg/kg   | TTLC<br>mg/kg |
| SB-1 7'      | 7/17/2001  | <1.0                                 | #     | · · ·  | - •      | _   | <0.05 | <0.005  | <0.005         | <0.005           | <0.005  | -             |
| SB-2 6'      | 7/17/2001  | <1.0                                 | 26    |        | -        | •   | <0.05 | < 0.005 | < 0.005        | < 0.005          | < 0.005 | -             |
| SB-2 10'     | 7/17/2001  | <1.0                                 | -     |        |          | -   | <0.05 | < 0.005 | < 0.005        | < 0.005          | < 0.005 | -             |
| SB-3 4'      | 7/17/2001  | <1.0                                 | _     |        | •        | _   | <0.05 | < 0.005 | < 0.005        | < 0.005          | < 0.005 | -             |
| SB-4 6'      | 7/17/2001  | <1.0                                 | 2.8   |        | - ,      | -   | <0.05 | < 0.005 | < 0.005        | < 0.005          | < 0.005 | -             |
| SB-5 4'      | 7/17/2001  | 5.0                                  | 13    |        | -        | -   | <0.05 | 0.1600  | 0.058          | 0.11             | 0.21    | -             |
| SB-5 7'      | 7/17/2001  | 9.7                                  | 37    |        | •        | -   | <0.05 | 0.059   | 0.012          | 0.007            | 0.056   | -             |
| SB-6 7'      | 7/17/2001  | 1.5                                  | 11    |        | -        | -   | <0.05 | 0.008   | 0.018          | < 0.005          | < 0.005 | -             |
| SB-6 15'     | 7/17/2001  | <1.0                                 | <1.0  |        | -        | -   | <0.05 | <0.005  | < 0.005        | < 0.005          | < 0.005 | -             |
| SB-8 4'      | 9/28/2001  | 16                                   | -     |        | -        | -   | <0.05 | 0.053   | 0.11           | 0.031            | 0.14    | -             |
| SB-8 11'     | 9/28/2001  | <1.0                                 | •     |        | -        | -   | <0.05 | < 0.005 | < 0.005        | < 0.005          | < 0.005 | -             |
| Disp-East 3' | 11/30/2001 | 110                                  | -     |        | _        | -   | <0.20 | 0.07    | 1.2            | 0.16             | 5.2     |               |
|              | 11/30/2001 | 280                                  | _     |        | -        |     | 6     | 0.25    | 7.5            | 4.1              | 26      | -             |
| South 6 1/2  | 11/30/2001 | 4.1                                  | -     |        | •        | -   | 53    | 0.038   | 0.16           | 0.034            | 0.19    | -             |
| West 6 1/2   | 11/30/2001 | <50                                  | _     |        | -        |     | 0.99  | < 0.005 | 0.014          | 0.011            | 0.046   | •             |
| East 6 1/2   | 11/30/2001 | 140                                  | -     |        | •        | *   | 50    | 13      | 3.9            | 7.9              | 18      | -             |
| SB-12 5'     | 9/6/2002   | <50                                  | _     |        | <u>.</u> | _   | <0.05 | < 0.005 | < 0.005        | <0.005           | < 0.005 | 1200          |
| SB-13-4'     | 9/6/2002   | 15,000                               | _     | -      | _        | -   | <50   | 21      | 840            | 300              | 1700    | 830           |
| SB-14 4'     | 9/6/2002   | <50                                  |       | -      | -        | -   | <0.05 | < 0.005 | < 0.005        | < 0.005          | < 0.005 | 110           |
| SB-15 4'     | 9/6/2002   | <50                                  | -     | -      | _        | -   | <0.05 | < 0.005 | < 0.005        | < 0.005          | < 0.005 | 5             |
| SB-16 4'     | 9/6/2002   | 73                                   | -     | -      | -        | *   | 1.5   | < 0.05  | 0.18           | < 0.05           | < 0.05  | 20            |
| SB-17 4'     | 9/6/2002   | 1.2                                  | _     | _      | _        | *   | 2.1   | 0.0073  | 0.007          | < 0.005          | 0.011   | 3.2           |
| SB-17 39'    | 9/6/2002   | <50                                  | -     | •      | -        | _   | <0.05 | < 0.005 | < 0.005        | < 0.005          | < 0.005 | 3.3           |

Table 1 Historical Soil Analytical Data 796 66th Avenue, Oakland, California

| Sample<br>ID | Date      | TPH-g | TPH-d         | TPH-mo | МТВЕ        | TBA         | MTBE   | Benzene | Toluene        | Ethyl<br>benzene | Xylenes | Lead          |
|--------------|-----------|-------|---------------|--------|-------------|-------------|--------|---------|----------------|------------------|---------|---------------|
| 2.6.5        |           | mg/kg | 8015<br>mg/kg | mg/kg  | 82<br>mg/kg | 60<br>mg/kg | mg/kg  | mg/kg   | 8021B<br>mg/kg | mg/kg            | mg/kg   | TTLC<br>mg/kg |
| MW-1 4'      | 9/19/2002 | <1.0  |               | -      | **          |             | <0.05  | <0.005  | <0.005         | < 0.005          | < 0.005 | 5.9           |
| MW-2 4"      | 9/19/2002 | <1.0  | _             | _      | <u>-</u>    | -           | <0.05  | < 0.005 | < 0.005        | < 0.005          | < 0.005 | 25            |
| MW-3 4'      | 9/19/2002 | <1.0  | _             |        | -           |             | <0.05  | < 0.005 | < 0.005        | < 0.005          | < 0.005 | 25            |
| MW-4 4'      | 9/19/2002 | 6.2   | •             | _      | _           | _           | < 0.05 | < 0.005 | 0.0080         | 0.0078           | 0.021   | 160           |
| MW-5 4'      | 9/19/2002 | <1.0  | -             | -      | -           | -           | 2.0    | 0.0053  | 0.0088         | < 0.005          | 0.010   | 190           |
| SB-18-3.5    | 7/1/2008  | 1500  | <u>-</u>      | •      | <0.25       | <2.5        | <5.0   | < 0.50  | 6.5            | 19               | 88      | 230           |
| SB-18-5      | 7/1/2008  | 21    | _             | _      | 12          | <3.3        | 13     | 0.21    | 0.22           | 0.92             | 3.6     | 17            |
| SB-19-3.5    | 7/1/2008  | <1.0  | _             | _      | 0.024       | < 0.05      | <0.05  | < 0.005 | < 0.005        | < 0.005          | < 0.005 | 16            |
| SB-19-6      | 7/1/2008  | 17    | _             | _      | 6.5         | <3.3        | 6.8    | 0.79    | 0.31           | 0.2              | 1.6     | 190           |
| SB-20-3.5    | 7/1/2008  | <1.0  | -             | _      | 0.023       | < 0.05      | <0.05  | < 0.005 | < 0.005        | < 0.005          | < 0.005 | 9.7           |
| SB-20-5.5    | 7/1/2008  | <1.0  | _             | •      | < 0.005     | < 0.05      | <0.05  | < 0.005 | < 0.005        | < 0.005          | < 0.005 | 320           |
| SB-21-3.5    | 7/1/2008  | <1.0  | <1.0          | <1.0   | < 0.005     | < 0.05      | <0.05  | < 0.005 | < 0.005        | < 0.005          | < 0.005 | <5.0          |
| SB-21-6      | 7/1/2008  | 16    | 180           | 110    | < 0.005     | < 0.05      | < 0.05 | < 0.005 | < 0.005        | < 0.005          | 0.041   | 14            |
| SB-22-4      | 7/1/2008  | <1.0  | -             | -      | <0.005      | < 0.05      | < 0.05 | < 0.005 | < 0.005        | < 0.005          | < 0.005 | -             |
| SB-22-23.5   | 7/1/2008  | <1.0  | -             | -      | <0.005      | < 0.05      | <0.05  | <0.005  | < 0.005        | < 0.005          | < 0.005 | -             |
| RWQCB ESL    | May 2008  | 180   | 180           | 2500   | 8.4         | 110         | 8.4    | 0.27    | 9.3            | 47               | 11      | 720           |

Commercial/Industrial

Shallow soil, non drinking water

#### BOLD = Current soil analyticals that Exceed ESL

mg/kg = milligrams per kilogram (ppm)
-= Sample not analyzed by this method

Sample location removed during additional excavation

Table 4
Excavation Sidewall Analytical Data
796 66<sup>th</sup> Avenue, Oakland, California

| - t           | Sample<br>Depth   | Date      | TPH-g | MTBE   | Benzene | Toluene | Ethyl<br>benzene | Xylenes |
|---------------|-------------------|-----------|-------|--------|---------|---------|------------------|---------|
|               |                   | ľ         | 8015  |        |         | 8021B   |                  |         |
|               |                   |           | mg/kg | mg/kg  | mg/kg   | mg/kg   | mg/kg            | mg/kg   |
| NW            | 4.0               | 2/12/2009 | <1.0  | < 0.05 | < 0.05  | < 0.05  | < 0.05           | < 0.05  |
| NS            | 4.0               | 2/12/2009 | 160   | <1.7   | < 0.17  | 0.53    | 0.37             | 2.6     |
| NS2           | 4.0               | 2/23/2009 | 2.2   | 2.3    | 0.027   | 0.012   | 0.014            | 0.028   |
| SW            | 4.0               | 2/12/2009 | <1.0  | < 0.05 | < 0.05  | < 0.05  | < 0.05           | < 0.05  |
| EW            | 4.0               | 2/12/2009 | 38    | < 0.50 | 0.0091  | 0.18    | 0.42             | 2.4     |
| ilow Soil Cor | n/Ind non drinkii | 10 water  | 83    | 8.4    | 0.27    | 9.3     | 47               | 11      |

RWQCB ESL May 2008

mg/kg = milligrams per kilogram (ppm)

Sample location removed during additional excavation

Table 5 Water Analytical Data

796 66<sup>th</sup> Avenue, Oakland, California

| Sample Sample  |       | Date      | TPH-g | MTBE | Benzene | Toluene | Ethyl   | Xylenes |  |
|----------------|-------|-----------|-------|------|---------|---------|---------|---------|--|
| ID             | Depth |           |       |      |         |         | benzene |         |  |
| 200            |       |           | 8015  |      |         | 8021B   |         |         |  |
|                |       |           | μg/L  | μg/L | μg/L    | μg/L    | μg/L    | μg/L    |  |
| W              | 6.5   | 2/12/2009 | 71    | 72 . | 1.2     | 3.9     | 1.7     | 8.5     |  |
| n/Ind non drii |       |           | 210   | 1800 | 46      | 130     | 43      | 100     |  |

RWQCB ESL May 2008

ug/L = micrograms per liter

Table 6
Soil Stockpile Analytical Data
796 66<sup>th</sup> Avenue, Oakland, California

| Sample<br>ID | Sample<br>Depth | Date      | TPH-g               | MTBE  | Benzene | Toluene        | Ethyl<br>benzene | Xylenes | Total<br>Lead       | ICP WET |
|--------------|-----------------|-----------|---------------------|-------|---------|----------------|------------------|---------|---------------------|---------|
| ***          | 2.6             |           | 8015<br>mg/kg mg/kg | mg/kg | mg/kg   | 8021B<br>mg/kg | mg/kg mg/kg      |         | 6010C<br>mg/kg mg/l |         |
| STK1234      | ab 40 45 db     | 2/12/2009 | 190                 | <8.0  | 0.26    | 1.40           | 3.6              | 18      | 58                  | 1.7     |

mg/kg = milligrams per kilogram

mg/L = milligrams per Liter



#### McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Date Sampled: 11/30/2001 Client Project ID: #4700; Cruise All Environmental, Inc. America Date Received: 11/30/2001 3210 Old Tunnel Road, Suite B Lafayette, CA 94549-4157 Client Contact: John Ormerod Date Extracted: 11/30/2001 Client P.O: Date Analyzed: 11/30-12/04/2001

| Le | ad |  |
|----|----|--|
|    |    |  |

| Lab ID   | Client ID   | Matrix | Extraction ° | Lead*      | % Recovery<br>Surrogate |
|--|---|--------|--------------|------------|-------------------------|
| 84558  | GW  | W      | TTLC         | 0.021      | N/A                     |
| 84559  | Disp-East 3'  | s      | TTLC         | 66         | 93                      |
| 84560  | Disp-West 3'  | S      | TTLC         | 34         | 93                      |
| 84561  | South 6 1/2   | S      | TTLC         | 1300       | 100                     |
| 84562  | West 6 1/2  | s      | TTLC         | 16         | 94                      |
| 84563  | East 6 1/2  | S      | TTLC         | 95         | 95                      |
|  |   |        |              |            |                         |
|  |   |        |              |            |                         |
|  |   |        |              |            |                         |
|  |   |        |              |            |                         |
| ***************************************  |   |        |              |            |                         |
|  |   |        |              |            |                         |
|  |   |        |              |            |                         |
| and the state of t |   |        |              |            |                         |
| Denorting 3  | imit unless otherwise   | s      | TTLC         | 3.0 mg/kg  |                         |
| stated; ND m   | eans not detected above   | w      | TTLC         | 0.005 mg/L |                         |
| stated; ND m   | Limit unless otherwise<br>leans not detected above<br>reporting limit |        |              |            |                         |

<sup>\*</sup> soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L Lead is analysed using EPA method 6010 (ICP) for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water

<sup>&</sup>lt;sup>®</sup> DISTLC extractions are performed using STLC methodology except that deionized water is substituted for citric acid buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.

EPA extraction methods 1311(TCLP), 3010/3020(water, TTLC), 3040(organic matrices, TTLC), 3050(solids, TTLC); STLC - CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

<sup>&</sup>amp; reporting limit raised due to matrix interference

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

Table 1. Soil Chemical Data Summarya
Underground Tank Closure Investigation
McGuire & Hester, Oakland, CA

| Tank<br>Number | Sampling<br>Date       | Sample<br>Number  | TPH <sup>b</sup> as<br>Diesel<br>(mg/Kg)  | TPH <sup>b</sup> as<br>Gasoline<br>(mg/Kg)  |
|----------------|------------------------|---|---|---|
| Tank Tl        | 01/16/87               | SE-8  | NA <sup>C</sup>   | 758 ·   |
|                | 01/16/87               | SW-8  | NA  | 9.6   |
| Tank T2        | 01/16/87               | SE-10   | NA  | 415   |
|                | 01/16/87               | SW-10   | NA  | 3.8   |
| Tank T3        | 01/16/87               | SS-9  | 78  | NA  |
|                | 01/16/87               | SN-9  | 492   | NA  |
|                | Number Tank Tl Tank T2 | Number Date Tank T1 01/16/87 01/16/87 Tank T2 01/16/87 Tank T3 01/16/87 | Number Date Number  Tank T1 01/16/87 SE-8 01/16/87 SW-8  Tank T2 01/16/87 SE-10 01/16/87 SW-10  Tank T3 01/16/87 SS-9 | Tank Sampling Sample Diesel Number Date Number (mg/Kg)  Tank T1 01/16/87 SE-8 NA  Tank T2 01/16/87 SW-8 NA  Tank T2 01/16/87 SE-10 NA 01/16/87 SW-10 NA  Tank T3 01/16/87 SS-9 78 |

a. Summary of analytical results presented in AGS report dated February 13, 1987 (Attachment D-1)
 b. TPH = Total petroleum hydrocarbons reported as

c. NA = Sample not analyzed for this constituent.

b. TPH = Total petroleum hydrocarbons reported as either gasoline or diesel. Analysis for TPH as diesel using EPA Method 3550/8015. Analysis for TPH as gasoline using EPA Method 5030.

Table 2. Soil and Groundwater Chemical Data Summary, Post Closure Underground Tank Investigation, McGuire & Hester, Oakland, CAa

#### SOIL RESULTS

| Boring<br>Number | Sampling<br>Date     | Depth<br>(ft) | TPH <sup>b</sup> as<br>Diesel<br>(mg/Kg) | TPH <sup>b</sup> as<br>Gasoline<br>(mg/Kg) |
|------------------|----------------------|---------------|--|--|
| MW-1             | 02/10/87<br>02/10/87 | 5<br>10       | NA <sup>C</sup><br>NA                    | 2.1  |
| MM-5             | 02/10/87             | 5             | NA                                       | O.4  |
|                  | 02/10/87             | 10            | NA                                       | 1.8  |
| E-WM             | 02/10/87             | 5             | 1,750                                    | NA   |
|                  | 02/10/87             | 10            | 30                                       | NA   |

#### GROUNDWATER RESULTS

| Sampling<br>Date | TPH <sup>b</sup> as<br>Diesel<br>(ug/L) | TPH <sup>b</sup> as<br>Gasoline<br>(ug/L)        | · Hy<br>B  | droca<br>E   | rbons<br>T   | ,d<br>X  |
|------------------|---|--|--|--|--|--|
| 02/12/87         | NA                                      | 29   | 0.7  | 4.2  | 1.2  | 5.8  |
| 02/12/87         | NA                                      | 23.7   | $ND^{d}$   | 1.3  | 0.8  | 4.3  |
| 02/12/87         | NDe                                     | NА   | NA   | NA   | NA   | NA   |
|                  | Date<br>02/12/87<br>02/12/87            | Sampling Diesel (ug/L)  02/12/87 NA  02/12/87 NA | Date (ug/L) (ug/L)  02/12/87 NA 29  02/12/87 NA 23.7 | Sampling Diesel Gasoline Hy Date (ug/L) (ug/L) B  02/12/87 NA 29 0.7  02/12/87 NA 23.7 ND <sup>d</sup> | Sampling Diesel Gasoline Hydroca<br>Date (ug/L) (ug/L) B E<br>(ug/<br>02/12/87 NA 29 0.7 4.2<br>02/12/87 NA 23.7 ND <sup>d</sup> 1.3 | Sampling Diesel (ug/L)         Gasoline (ug/L)         Hydrocarbons (ug/L)           02/12/87         NA         29         0.7         4.2         1.2           02/12/87         NA         23.7         ND <sup>d</sup> 1.3         0.8 |

a. Summary of Analytical Results presented in AGS report dated March 24, 1988.

b. TPH = Total petroleum hydrocarbons reported as either gasoline or diesel. Analysis for TPH as diesel using EPA Method 3550/8015. Analysis for TPH as gasoline using EPA Method 5030.

c. NA = Sample not analyzed for this constituent.

d. B = Benzene, E = Ethylbenzene, T = Toluene, X = Xylenes.

Table 3. Soil Organic Chemical Data Summary, Preacquisition Due Diligence Investigation, McGuire & Hester, Oakland, CA<sup>a</sup>.

| Sample<br>Number  |  | (mq/Kq)   |  | (uq/Kq)  |  |  |  |
|---|--|---|--|--|--|--|--|
|   | Depth<br>(Feet)  | TPHb,c,d  | Oil &<br>Grease                                      | В  | POC <sup>e.</sup><br>T                                   | E  | EOC <sup>É</sup>   |
| MW-1-1<br>MW-1-2<br>MW-2-1<br>MW-2-1<br>MW-2-2<br>MW-2-2<br>MW-3-1<br>MW-3-2<br>B-4-1<br>B-5-1<br>B-6-1 | 1.5-2.0<br>2.5-3.0<br>1.5-2.0<br>1.5-2.0<br>2.5-3.0<br>2.5-3.0<br>1.0-1.5<br>2.0-2.5<br>1.0-1.5<br>1.0-1.5 | 160 <sup>C</sup><br>270 <sup>C</sup><br><10<br>460 <sup>b</sup><br>74 <sup>d</sup><br>42 <sup>b</sup><br>NA<br>NA<br>NA | NA <sup>G</sup> NA NA NA NA NA NA NA NA NA S2,000 50 | NA <sup>h</sup> NA NA NA NA NA NA NA ND ND ND ND ND ND ND A2 | NA<br>NA<br>NA<br>NA<br>NA<br>NA<br>ND<br>ND<br>ND<br>ND | NA<br>NA<br>NA<br>NA<br>NA<br>NA<br>ND<br>ND<br>ND<br>ND | NA<br>NA<br>NA<br>NA<br>NA<br>ND<br>ND<br>ND<br>ND<br>NA |

a. Summary of Analytical Results presented in Purcell, Rhoades & Associates report dated June 1, 1988. Samples collected 2/17/88. Concentrations expressed in milligrams per kilogram (mg/Kg) or as micrograms per kilogram (ug/Kg), as noted.

b. Total Petroleum Hydrocarbon as diesel.

c. Total Petroleum Hydrocarbon as gasoline.

d. Total Petroleum Hydrocarbon as Motor Oil.

e. Purgeable Organic Compounds.

f. Extractable Organic Compounds. B = benzene, T = toluene; E = ethylbenzene

g. Not analyzed

h. None detected

Table 5. Soil TPH Concentration Summary, Final Preaquisition Due Diligence Investigations, McGuire and Hester, Oakland, CA<sup>a</sup>

| Sample<br>Number | Sampling<br>Date | TPH <sup>b</sup> as<br>Diesel<br>(mg/Kg) |
|------------------|------------------|--|
|                  |                  |  |
| B-25-1           | 7-11-88          | NDc                                      |
| B-25-2           | 7-11-88          | ЙĎ                                       |
| B-26-1           | 7-11-88          | ND                                       |
| B-26-2           | 7-11-88          | 1.7                                      |
| B-27-1           | 7-11-88          | 1.8                                      |
| B-27-2           | 7-11-88          | ND                                       |
| B-28-1           | 7-11-88          | ÑD                                       |
| B-28-2           | 7-11-88          | ND                                       |
| B-29-1           | 7-11-88          | 15                                       |
| B-29-2           | 7-11-88          | 57                                       |
| B-30-1           | 7-11-88          | ק. י                                     |
| S1               | 7-28-88          | 9.6                                      |
| S2 -             | 7-28-88          | 3,300                                    |
| S3               | 7-28-88          | 10                                       |
| S4               | 7-28-88          | 1,600                                    |
| S <b>5</b>       | 7-28-88          | 20                                       |
| \$6              | 7-28-88          | 22                                       |
| 57               | 7-28-88          | ND                                       |
| 38               | 8-01-88          | . 140                                    |
| 39               | 8-01-88          | ND                                       |
| S.1.             | 8-01-88          | 18                                       |
| 21               | 8-01-88          | 3,100                                    |
| 22               | 8-01-88          | 3,100                                    |
| 23               | 8-01-88          | 100                                      |
| 24               | 8-01-88          | 1,300                                    |
| <b>2</b> 5       | 8-01-88          | 3,400                                    |
| 26               | 8-01-88          | 360                                      |
| 27               | 8-01-88          | 960                                      |
| 28               | 8-01-88          | 1,400                                    |

a Summary of analytical results presented in Purcell, Rhoades & Associates reports dated August 16, 1988 (preliminary and supplemental reports). TPH = Total Petroleum hydrocarbons reported as diesel.

b Analysis for TPH as diesel using EPA Method-3550/8015.

c ND = This constituent not detected.

Environmental Geotechnical Consultants

2504 Technology Drive

Hayward, CA 94545 Attn: Pam Morrill Date Sampled: 07/11/88

Date Received: 07/12/88 Date Analyzed: 07/13/88

Date Reported: 07/14/88

Project: #4780-01, Cruise America/McGuire & Hester

### TOTAL PETROLEUM HYDROCARBONS

| Sample<br>Number | Sample <pre>Description Soil</pre> | Detection <u>Limit</u> ppm | High Boiling Point Hydrocarbons ppm |
|------------------|------------------------------------|----------------------------|-------------------------------------|
| 8070727          | B-2Ö-1                             | 1.0                        | и.р.                                |
| 8070728          | B-20-2                             | 1.0                        | 42                                  |
| 8070729          | B-21-1                             | 1.0                        | N.D.                                |
| 8070730          | B-21-2                             | 1.0                        | N.D.                                |
| 8070731          | B-22-1                             | 1.0                        | N.D.                                |
| 8070732          | B-22-2                             | 1.0                        | N .D .                              |
| 8070733          | B-32-1                             | 1.0                        | N.D.                                |
| 8070734          | B-23-2                             | 1.0                        | N.D.                                |
| 8070735          | B-24-1                             | 1.0                        | N.D.                                |
| 8070736          | B-24-2                             | 1.0                        | 20                                  |

Method of Analysis: EPA 3550/8015

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton

Laboratory Director

Environmental Geotechnical Consultants

2504 Technology Drive

Hayward, CA 94545 Attn: Pam Morrill Date Sampled: 07/11/88
Date Received: 07/12/88

Date Analyzed: 07/13/88

Date Reported: 07/14/88

Project: #4780-01, Cruise America /McGuire & Hester

### TOTAL PETROLEUM HYDROCARBONS

| Sample<br>Number | Sample Description Soil | Detection Limit ppm | High Boiling Point Hydrocarbons ppm |
|------------------|-------------------------|---------------------|-------------------------------------|
| 8070737          | B-25-1                  | 1.0                 | N.D.                                |
| 8070738          | B-25-2                  | 1.0                 | N.D.                                |
| 8070739          | B-26-1                  | 1.0                 | N.D.                                |
| 8070740          | B-26-2                  | 1.0                 | 1.7                                 |
| 8070741          | B-27-1                  | 1.0                 | 1.8                                 |
| 8070742          | B-27-2                  | . 1.0               | N.D.                                |
| 8070743          | B-28-1                  | 1.0                 | N.D.                                |
| 8070744          | B-28-2                  | 1.0                 | N.D.                                |
| 8070745          | B-29-1                  | 1.0                 | 15                                  |
| 8070746          | B-29-2                  | 1.0                 | 57                                  |
| 8070747          | B-30-1                  | 1.0                 | 1.2                                 |

Method of Analysis: EPA 3550/8015

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton Laboratory Director

Table 7. Stockpiled Soil Analytical Data Summary,
Postacquisition Investigations, McGuire & Hester,
Oakland, CA<sup>a</sup>

| Sample<br>Number | Sample<br>Date | TPH as diesel (mg/Kg) | Total Oil & Grease<br>(mg/Kg) |
|------------------|----------------|-----------------------|-------------------------------|
| 1.               | 10-17-88       | . NDc                 | БАИ                           |
| 2                | 10-17-88       | 2.00                  | АИ                            |
| 3                | 10-17-88       | 270                   | 2,600 <sup>e</sup>            |
| 4                | 10-17-88       | NÐ                    | NA                            |
| 5-surface        | 10-17-88       | ND                    | NA                            |
| SSl              | 11-21-88       | 1,200                 | 1,700 <sup>£</sup>            |
| SS2              | 11-21-88       | 1,200                 | 1,900 <sup>£</sup>            |
| SS3              | 11-21-88       | 870                   | 1,300f                        |
| SS4              | 11-21-88       | 910                   | 1,700 <sup>f</sup>            |

- a. Samples collected by Subsurface Consultants, Inc. on October 17, 1988 and by ATT on November 21, 1988.
- Total petroleum hydrocarbons reported as diesel.
   Analysis for TPH as diesel using EPA Method 3550/8015.
- c. Non detected.
- d. Not analyzed.
- e. Analysis for total oil and grease using Standard Method 503A.
- f. Analysis for total oil and grease using Standard Method 503E.

TABLE 1

ANALYTICAL RESULTS OF PREVIOUS INVESTIGATION BY PRA

### SAMPLING DATE - FEBRUARY 17, 1988

Results (mg/Kg)a

Petroleum Hydrocabons

Sample Depth of Volatile, Extractable, 011 & location Sampling as Gasoline as Motor oil as Diesel Grease 1.5 - 2' 2.5 - 3' 1.5 - 2' 2.5 - 3' MW - 1 - 1NRD 160 NR NR MW-1-2 270 NR NR NR MW - 2 - 1NR 10 460 NR MW - 2 - 2NR 74 42 NR B-4-1 1 - 1.5' NR NR NR 32,000

NR

NR

NR

NR

50

220

NR

NR

1

- 1.5'

-1.5

B - 5 - 1

B - 6 - 1

amg/Kg--Data are expressed as milligrams analyte per kilogram sample, as-received basis.

bNR--Analysis not requested.

Table 4. Soil Metal Concentration Summary, Initial Preacquisition Due Diligence Investigation, McGuire & Hester, Oakland, CA<sup>a</sup>

|                            |                           | PEG. Harris     |                              | ······································ |  |
|----------------------------|---------------------------|-----------------|------------------------------|--|--|
| Parameter                  | TILC <sup>b</sup> (mg/Kg) | SILCC<br>(mg/L) | MW-3-1<br>2/17/88<br>1 - 1.5 | MW-3-2<br>1/17/88<br>2 - 2.5           |  |
| Antimony, & compounds      | 500                       | 15              | 62 <sup>d</sup>              | 55                                     |  |
| Arsenic, & compounds       | 500                       | 5.0             | 28                           | 24                                     |  |
| Barium, & compoundse       | 10,000                    | 100             | 80.                          | 72                                     |  |
| Beryllium, & compounds     | 75                        | 0.75            | <5                           | <5                                     |  |
| Cadmium, & compounds       | 100                       | , 1.0           | 7                            | 5                                      |  |
| Chromium (VI), & compounds | 500                       | 560             | $NA^{\mathtt{f}}$            | NA                                     |  |
| Chromium, & compounds      | 2,500                     | 5.0             | 56                           | 57                                     |  |
| Cobalt, & compounds        | 8,000                     | 80              | 19                           | 24                                     |  |
| Copper, & compounds        | 2,500                     | 25              | 44                           | 34:                                    |  |
| Lead, & compounds          | 1,000                     | 5.0             | 78                           | <50                                    |  |
| Mercury, & compounds       | 20                        | 0.200           | 0.07                         | 0.11                                   |  |
| Molybdenum, & compounds    | 3,500                     | 350             | <20                          | <20                                    |  |
| Nickel, & compounds        | 2,000                     | 20              | 74                           | 130                                    |  |
| Selenium, & compounds      | 100                       | 1.0             | <0.5                         | 3.4                                    |  |
| Silver, & compounds        | 500                       | 5.0             | <2.                          | <2                                     |  |
| Thallium, & compounds      | 700                       | . 7.0           | 53.                          | 46                                     |  |
| Vanadium, & compounds      | 2,400                     | 24              | 54                           | 42                                     |  |
| Zinc, & compounds          | 5,000                     | 250             | 100                          | 100                                    |  |

a. Summary of analytical results presented in Purcell, Rhodes & Associates report dated June 1, 1988. Samples collected February 17, 1988.

b. TTIC - Total Threshold Limit Concentration, from Section 66699, Article 11, California Code of Regulations:

C. STIC - Soluble Threshold Limit Concentration, from Seciton 66699, Article 11, California Code of Regulations.

d. Data are expressed as milligrams analyte per kilogram sample.

e. Excludes Barite.

f. NA - Not analyzed, total Cr below regulatory criterion for Cr(VI).

**TABLE 1 - Soil Sample Analyses** 

| Liver to the control of the control |              | to the all the total |              |  | 1 - 3 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
|---|--------------|----------------------|--------------|--|---|
|   | Disp-East    | Disp-                | South 6/2    | West 6/2                                     | East 6/2                                  |
| <b>乙酰胺基甲酚</b> 的类似的含含混合  | 3. 产制        | *West 3              |              | <b>。                                    </b> | 為於是等等                                     |
| TPH-GASOLINE (mg/kg)  | 等110 流       | 280                  | 34.14X       | ND .   | <b>3140</b> **                            |
| MTBE (mg/kg)  | <0.20 %      | 6.0                  | 53.%         | 0.99   | 14 50                                     |
| BENZENE (mg/kg)   | 0.070        | 0.25                 | 0.038        | ND   | 量13%                                      |
| TOLUENE (mg/kg)   | 1.2          | 想7.5%                | <b>20.16</b> | ×0.014 🕏                                     | 3.9                                       |
| ETHYL BENZENE (mg/kg)   | 0.16         | 4.1                  | 0.034        | 0.011  | 7.9                                       |
| TOTAL XYLENES (mg/kg) 👙   | <b>5.2</b> ♦ | 26                   | · 0.19       | 0.046  | 18  |
| TOTAL LEAD (mg/kg)  | 66           | 34                   | 1,300        | 16.  | \$全 <b>95</b> 等。                          |

mg/kg = milligrams per kilogram (ppm)
ND = not detected above the reporting limit

**TABLE 2 - Groundwater Sample Analyses** 

|                      | GW      |
|----------------------|---------|
| TPH-GASOLINE (µg/L)  | 44,000  |
| MTBE (μg/L)          | 42,000  |
| BENZENE (µg/L)       | 590     |
| TOLUENE (µg/L)       | 5,100   |
| ETHYL BENZENE (µg/L) | ₩ 640 ₩ |
| TOTAL XYLENES (µg/L) | 3,500   |
| TOTAL LEAD (mg/L)    | 表0.021分 |

 $\mu$ g/L = micrograms per liter (ppb) mg/L = milligrams per liter (ppm)

Copies of all analytical results and Chain of Custody documentation are located in Appendix D: Analytical Documentation.

### 5.0 SUMMARY AND CONCLUSIONS

On November 29, 2001, a 10,000-gallon gasoline UST was removed from the property located at 796 66th Avenue in Oakland, California. Prior to removal, 4,085 gallons of waste liquid were removed, transported and disposed off-site. The tank was transported under non-hazardous waste manifest to the Ecology Control Industries' disposal facility in Richmond, California where the tank was cleaned and disposed of as scrap metal.

A total of five (5) soil samples and one (1) groundwater sample were collected during the tank removal activities. Concentrations of TPH as gasoline were present in four of the five soil samples ranging from 4.1 mg/kg to 280 mg/kg. Concentrations of MTBE and BTEX were also detected in the five soil samples. Elevated concentrations of TPH as gasoline and MTBE were present in the groundwater sample at  $44,000 \mu g/L$  and  $42,000 \mu g/L$ , respectively. Elevated concentrations of BTEX were also present in the groundwater sample.



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March 28, 1988

# TABLE 3. SUMMARIZED ANALYTICAL RESULTS - PURGEABLE ORGANIC COMPOUNDS

|                           |          | Descriptor, Lab No. & Results (ug/Kg)&   |  |   |   |  |  |
|---------------------------|----------|--|--|---|---|--|--|
| Analyte                   | (nd/ka)  | MW-3-1<br>02/17/88<br>1-1.5:<br>(-5937 ) | MW-3-2<br>02/17/88<br>2-2.5'<br>(-5938 ) | B-4-1<br>02/17/88<br>1-1.5'<br>(-5939 ) | B-6-1<br>02/17/88<br>1-1.5'<br>(-5942 ) |  |  |
| Benzene                   | 25       | Ирс                                      |  |   |   |  |  |
| Bromodichloromethane      | 10       | ND~                                      | ND                                       | ND                                      | 42                                      |  |  |
| Bromoform                 | 25       | מא.<br>מא:                               | ND                                       | ND                                      | КD .                                    |  |  |
| Bromomethane              | 15       | מא                                       | ND                                       | ND                                      | ŃД                                      |  |  |
| Carbon tetrachloride      | 15       | _  | ND                                       | מא                                      | HD                                      |  |  |
|                           |          | סמ                                       | ND                                       | ND                                      | CK                                      |  |  |
| Chlorobenzane             | 2.5      |  |  |   |   |  |  |
| Chloroethane              | 15       | ND                                       | ND                                       | ND                                      | ND                                      |  |  |
| 2-Chloroethylvinyl ether  | 35       | ND:                                      | ND                                       | מא                                      | ВD                                      |  |  |
| Chloroform                | 10       | ND                                       | ND                                       | ND                                      | ND                                      |  |  |
| Chloromethane             | 15       | ND                                       | ND                                       | ND                                      | ND                                      |  |  |
|                           | 7.5      | סא                                       | ND                                       | ND                                      | ND                                      |  |  |
| Dibromochloromethane      | 15       |  | •  |   |   |  |  |
| 1,2-Dichlorobenzene       | 25       | ИD                                       | ND                                       | иD                                      | ND                                      |  |  |
| 1,3-Dichlorobenzene       | 25       | ND                                       | סמ                                       | ND                                      | ND                                      |  |  |
| 1,4-Dichlorobenzene       | 25       | ND                                       | MD                                       | ND                                      | K.Z.                                    |  |  |
| 1,1-Dichlorosthane        |          | ND                                       | ND                                       | ND                                      | ND                                      |  |  |
|                           | 20       | ND                                       | ND                                       | ND                                      | מא                                      |  |  |
| 1,2-Dichlorosthens        | , .      |  |  | •                                       |   |  |  |
| 1,1-Dichloroethene        | 15       | ИD                                       | ND                                       | ND                                      | ND                                      |  |  |
| trans-1,2-Dichloroethene  | 15       | ND                                       | ND                                       | ИD                                      | иD                                      |  |  |
| 1,2-Dichloropropane       | 10       | ND                                       | ND                                       | ND                                      | ND                                      |  |  |
| cis-1,3-Dichloropropene   | 25       | ND                                       | ND                                       | ND                                      | סא                                      |  |  |
|                           | 50       | ND                                       | ND                                       | ND .                                    | ND                                      |  |  |
| trans-1,3-Dichloropropene | 25       |  |  |   |   |  |  |
| Ethylbenzenc              | 45<br>30 | ND                                       | ND                                       | ND                                      | ND                                      |  |  |
| Methylene chloride        | 15       | ИD                                       | ND                                       | מא                                      | 39                                      |  |  |
| 1,1,2,2-Tetrachloroethana | 30       | ND                                       | ND                                       | ИD                                      | ND                                      |  |  |
| Tetrachloroethene         | 20       | ND                                       | ND                                       | ND                                      | ND                                      |  |  |
|                           | 20       | ND                                       | ND                                       | ND                                      | ND                                      |  |  |
| Toluene                   | 26       |  |  |   | <del></del>                             |  |  |
| 1,1,1-Trichloroethane     | 25       | ND                                       | ND                                       | ND                                      | 77                                      |  |  |
| 1,1,2-Trichloroethane     | 20       | ND                                       | ND                                       | ND                                      | ND                                      |  |  |
| Trichloroethene           | 25<br>10 | ND                                       | ИD                                       | ND                                      | ND                                      |  |  |
| Trichlorofluoromethane    | 10 ···   | ND                                       | ЙD                                       | ND                                      | ND                                      |  |  |
| Vinyl chloride            | 15.      | ND                                       | ND                                       | ND                                      | ND                                      |  |  |
|                           | ± ⊅.     | ИD                                       | ND                                       | מא                                      | ND                                      |  |  |

apata expressed in units of micrograms analyte per kilogram sample, asbMDL--Method detection limit.

CND--Not detected at the listed mathod dottor in the



377/004 LOG 2441



March 28, 1988

## TABLE 4. SUMMARIZED ANALYTICAL RESULTS - EXTRACTABLE ORGANIC COMPOUNDS

|  |                  | Descripto  | r, Lab No.  | & Results   | (ug/Kg)a   |
|--|------------------|--|---|---|--|
| Acenaphthens Acenaphthylens Acenaphthylens Aldrin Anthracens Benzo(a) anthracens Benzo(b) fluoranthens Benzo(b) fluoranthens Benzo(a) pyrens Benzo(a) pyrens Benzo(b) fluoranthens Benzo(b) fluoranthens Benzo(b) fluoranthens Benzo(b) fluoranthens Benzo(c) fluorens Bis (2-chlorostopy) phthalate Chlorophenyl fluorens Bis (2-chlorostopy) phenyl ether Chlorophenyl fluorens Chrysens 4,4-DDE 4,4-DDE 4,4-DDE 4,4-DDE 4,4-DDE 1,2-Dichlorobenzens Blochlorobenzens Blochloroben | MDLB             | 02/17/88<br>1-1.5,<br>(-5937)                    | MW-3-2<br>02/17/88  | 02/17/88<br>1-1.5<br>(-5939 )e  | B-6-1<br>02/17/88                                    |
| Analyte  | (uq/Kq)          | (=5937')   | <u>(-5938</u> ) a   | 1-1.5;<br>(-5939 )e   | (-5941 ) \$  |
| Acenaphthens<br>Acenaphthylans   | 33               | NDC<br>ND<br>ND                                  | ND<br>ND  |   | ND   |
| Aldrih<br>Anthracena   | 33               | <u> </u>   | ND<br>ND<br>ND  | ND<br>ND  | ND<br>ND   |
| Benzidina<br>Benzo(a)anthrapana  | 33               | D<br>D<br>D                                      | ND<br>ND  | ND  | እ7 የጌ  |
| Benzo b fluoranthene   | 33               | ND<br>ND   | ND  | ХĎ  | йБ   |
| Benzo a pyrene   | 33               | ND<br>ND   | ND  | ИĎ  | ND DD ND N |
| Benzyl butyl phthalate   | 33<br>33         | ND<br>ND   | ÄĎ  | <u>קא</u>   | לן אוי   |
| gamma-BHC  | 33<br>33         | ND<br>ND   | ND<br>ND  | אבעבעבעבעבענע<br>אבעבעבעבעבעבענעבענענענענענענענענענענענענ                                 | ND<br>DN   |
| Bis 2-chloroethoxy methane   | 33<br>33         | йĎ   | йĎ  | 00<br>00<br>00  | ИD<br>Пи   |
| Bis (2-ethylhexyl) phthalace   | 33<br>00E.E      | йĎ   | ND  | D G Z   | ND<br>ND<br>ND                                       |
| 2-Chloronaphthalena  | 330              | ЙĎ   | ЙĎ  | D<br>GN   | D<br>D<br>D<br>D<br>D<br>D                           |
| Chrysene Chrysene  | 33               | בבבבבבבבבבבבבבבבבבבבבבבבבבבבבבבבבבבב             | ND<br>ND  | ND<br>ND  | ND   |
| 4,4 DDD<br>4,4 DDE   | 33               | ND   | ZZ<br>GZ  | ND<br>ND  | ND<br>ND<br>ND                                       |
| 4,4'-DDT<br>Dibenso(e,h)anthracens   | ર્ <u>ચ</u> ૂર્ચ | ND<br>ND<br>ND<br>ND                             | ND<br>ND  | ND<br>ND  | ND<br>ND<br>ND<br>ND<br>ND                           |
| Din-butyl onthalate  | 1,650            | йD   | ND<br>ND  | ND<br>ND  | ND<br>ND   |
| 1,3-Dichlorobenzene<br>1,4-Dichlorobenzene   | 133              | ND<br>ND   | DN<br>DN  | ND<br>ND  | ND<br>ND   |
| 3.3 Dichloropenzidine  | 33               | Kazazzz<br>Jooodoo<br>Jooodo                     | ND<br>ND  | במתממתמתמת<br>ממחמתמתמתמת<br>מחמתמתמתמת<br>מחמתמתמת<br>מחמתמתמת<br>מחמתמתמת<br>מחמתמתמתמת | ND<br>ND<br>ND                                       |
| Diethyl phthalate<br>Dimethyl phthalate  | ુર્વું           | ND<br>ND   | מספפפפפפמת מת מת מספפפפר מת | ND<br>ND  | ND   |
| 2,4-Diditrotoluene<br>2,6-Dinitrotoluene   | 253              | ND<br>ND   | ND<br>ND  | 70000000000000000000000000000000000000  | ND   |
| Di-n-octylphthalate<br>Endrin aldahyda   | <u> </u>         | ND<br>ND   | ND<br>ND  | ND<br>ND  | ND   |
| Fluoranthene   | 33               | ND<br>ND   | ND<br>ND  | йĎ  | ΖĎ   |
| Reptachlor   | 33               | ND<br>ND   | ND<br>ND  | סמ<br>סמ  | ND   |
| Hexachiorobenzene  | 33<br>23         | ND<br>ND   | ND<br>ND<br>ND  | NO<br>NO  | វរុស្តិ  |
| Hexachlorocyclopentadiene  | <u> </u>         | ND<br>ND   | ND<br>ND  | ХĎ  | ND<br>ND   |
| Indeno(1,2,3-cd)pyrane   | 33<br>33         | ND<br>ND   | ND<br>ND  | בבבבב<br>בספפפפפפ   | ND<br>ND   |
| Naphthalene<br>Nitrobasan  | 33               | ND<br>ND   | ND<br>ND  | ND  | йБ   |
| N-Nitrogodi-n-propylamine  | 1,320            | ND<br>ND   | ND  | ND  | ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ               |
| Pyraha Trichlorobancon   |                  | ИB   | ND<br>ND  | DR  | NB   |
| 2-Chlorophenol   | 33               | ND<br>ND   | ND<br>ND  | ND<br>D   | ND<br>ND   |
| 2.4-Dichlorophenel   | 33               | ИD<br>ИD   | ND<br>ND  | ND  | NO.  |
| 2,4-Dinitrophenol  | 825              | ND<br>ND   | ND<br>ND  | ND<br>ND  | ND.  |
| 2-Nitrophenol  | T, 633           | ظوموت محمد عمد عمد عمد عمد عمد عمد عمد عمد عمد ع | 00000000000000000000000000000000000000                          | 00000000000000000000000000000000000000  | 00000000000000000000000000000000000000               |
| Pentachiorophenol<br>Phanol  | 6.33g<br>4.33    | йD   | ND<br>ND  | ND<br>ND  | žž   |
| 2,4,6-Trichlorophenol  | 33               | ND<br>ND   | ND .<br>ND  | ND<br>ND<br>ND  | 20<br>20<br>20<br>20<br>20                           |
| 4  |                  |  |   | , . <del></del>   | *= 4.0   |

aug/kg--Data are expressed in units of micrograms analyte per kilogram sample, bas-received basis.

bMDL--Method detection limit.

CND--Not detected at the listed method detection limit.

dThe detection limits for this sample were 10x the listed MDLs.

The detection limits for this sample were 200x the listed MDLs.

The detection limits for this sample were 100x the listed MDLs.

Table 3
Historical Groundwater Monitoring Analytical Data
796 66<sup>th</sup> Avenue, Oakland, California

| Well ID     | Date       | Well      | Depth to     | Water Table | TPH-g    | Benzene | Toluene | Ethylbenzene | Xylenes | i       | (BE     | TBA     |
|-------------|------------|-----------|--------------|-------------|----------|---------|---------|--------------|---------|---------|---------|---------|
| (screen     | Sampled    | Elevation | Water        | Elevation   | (8015Cm) |         | •       | thod 8021B)  |         | (8021B) | (8260B) | (8260B) |
| interval in | Sampieu    | (ft amsl) | (ft from TOC | (ft amsl)   | μg/L     | μg/L    | μg/L    | μg/L         | μg/L    | μg/L    | μg/L    | μg/L    |
| MW-1        | 9/30/2002  | 10.88     | 5.41         | 5.47        | 1,800    | 50      | 15      | 16           | 18      | 19,000  | 13,000  | <5,000  |
| (4-14)      | 1/2/2003   | 10.88     | 4.77         | 6.11        | 660      | 24      | 6.4     | <2.5         | <2.5    | 7,800   | 8,900   | -       |
| (, , ,      | 3/31/2003  | 10.88     | 4.95         | 5.93        | 660      | 11      | 6.4     | <5.0         | < 5.0   | 16,000  | 20,000  | *       |
|             | 6/30/2003  | 10.88     | 4.54         | 6.34        | 830      | <5.0    | 6.8     | < 5.0        | <5.0    | 16,000  | 17,000  | -       |
|             | 10/1/2003  | 10.88     | 4.66         | 6.22        | 720      | <5.0    | < 5.0   | <5.0         | <5.0    | 14,000  | 13,000  | -       |
|             | 1/5/2004   | 10.88     | 4.07         | 6.81        | <300     | 7.8     | 2.9     | <3.0         | <3.0    | -       | 8,700   | _       |
|             | 4/5/2004   | 10.88     | 4.33         | 6.55        | 100      | 2.8     | 3.0     | <1.0         | <1.0    | 2,300   | 3,000   | <500    |
|             | 7/7/2004   | 10.88     | 4.97         | 5.91        | 190      | <1.7    | 2.0     | <1.7         | <1.7    | 4,900   | 5,500   | <1,000  |
|             | 7/19/2004  | 10.88     | 5.12         | 5.76        | 340      | <2.5    | 4.0     | <2.5         | <2.5    | 8,000   | 9,200   | <1,700  |
|             | 8/6/2004   | 10.88     | 5.13         | 5.75        | 280      | <0.5    | 5.6     | < 0.5        | < 0.5   | 7,200   | 5,900   | <1,000  |
|             | 8/20/2004  | 10.88     | 5.31         | 5.57        | <250     | <2.5    | <2.5    | <2.5         | <2.5    | 4,600   | -       | -       |
|             | 9/3/2004   | 10.88     | 5.22         | 5.66        | <250     | <2.5    | <2.5    | <2.5         | <2.5    | 5,700   | 4,700   | <1,000  |
|             | 10/13/2004 | 10.88     | 5.23         | 5.65        | 170      | < 0.5   | 4.8     | < 0.5        | < 0.5   | 3,700   | 4,400   | -       |
|             | 1/11/2005  | 10.88     | 4.69         | 6.19        | 110      | 8.8     | 4.2     | < 0.5        | < 0.5   | 880     | 990     | 910     |
|             | 4/13/2005  | 10.88     | 5.02         | 5.86        | 230      | <0.5    | 9.0     | < 0.5        | < 0.5   | 140     | 100     | 2,600   |
|             | 7/6/2005   | 10.88     | 5.06         | 5.82        | 200      | < 0.5   | 8.3     | < 0.5        | < 0.5   | <75     | 50      | 1,600   |
|             | 10/6/2005  | 10.88     | 4.92         | 5.96        | 110      | <0.5    | 6.8     | < 0.5        | < 0.5   | <20     | 8.4     | 640     |
|             | 1/9/2006   | 10.88     | 3.90         | 6.98        | <50      | < 0.5   | 1.8     | < 0.5        | < 0.5   | 260     | 280     | 560     |
|             | 4/10/2006  | 10.88     | 3.97         | 6.91        | 80       | <0.5    | 3.1     | < 0.5        | < 0.5   | 100     | 70      | 160     |
| *           | 7/11/2006  | 10.88     | 4.63         | 6.25        | <50      | <0.5    | 2.8     | < 0.5        | < 0.5   | <5.0    | 5.3     | 240     |
|             | 10/18/2006 | **        | -            | -           | 79       | <0.5    | 3.7     | < 0.5        | 2.3     | 7.0     | 6.8     | 320     |
|             | 3/13/2008  | 10.88     | 4.80         | 6.08        | <50      | <0.5    | < 0.5   | < 0.5        | < 0.5   | 5,5     | <10     | 780     |
| MW-2        | 9/30/2002  | 10.77     | 8.00         | 2.77        | <50      | <0.5    | < 0.5   | < 0.5        | < 0.5   | <5.0    | 0.84    | <5.0    |
| (4-14)      | 1/2/2003   | 10.77     | 5.91         | 4.86        | <50      | <0.5    | < 0.5   | < 0.5        | < 0.5   | 19      | 20      | -       |
| ()          | 3/31/2003  | 10.77     | 5.15         | 5.62        | <50      | <0.5    | < 0.5   | < 0.5        | < 0.5   | <5.0    | 3.9     | -       |
|             | 6/30/2003  | 10.77     | 5.91         | 4.86        | <50      | <0.5    | < 0.5   | < 0.5        | < 0.5   | 7.0     | 9.6     | -       |
|             | 10/1/2003  | 10.77     | 6.69         | 4.08        | <50      | <0.5    | < 0.5   | < 0.5        | < 0.5   | 7.7     | 6.7     | •       |
|             | 1/5/2004   | 10.77     | 6.18         | 4.59        | 71       | 4.7     | 13      | 2.7          | 12      | -       | 7.8     |         |
|             | 4/5/2004   | 10.77     | 7.22         | 3.55        | 210      | 14      | 39      | 6.6          | 27      | 16      | 13      | <5.0    |
|             | 7/7/2004   | 10.77     | 6.83         | 3.94        | <50      | < 0.5   | < 0.5   | < 0.5        | < 0.5   | 5.7     | 5.6     | <5.0    |
|             | 10/13/2004 | 10.77     | 7.18         | 3.59        | <50      | < 0.5   | < 0.5   | < 0.5        | < 0.5   | <5.0    | 2.6     | -       |
|             | 1/11/2005  | 10.77     | 7.27         | 3.50        | 74       | 2.6     | 11      | 2.1          | 10      | <5.0    | 4.4     | <5.0    |
|             | 4/13/2005  | 10.77     | 6.66         | 4.11        | <50      | <0.5    | < 0.5   | < 0.5        | < 0.5   | <5.0    | < 0.5   | <5.0    |
|             | 7/6/2005   | 10.77     | 6.83         | 3.94        | <50      | <0.5    | 0.77    | < 0.5        | < 0.5   | <5.0    | 2.9     | <5.0    |
|             | 10/6/2005  | 10.77     | 7.05         | 3.72        | <50      | <0.5    | 0.81    | < 0.5        | 0.54    | <5.0    | 2.1     | <5.0    |

Table 3
Historical Groundwater Monitoring Analytical Data
796 66<sup>th</sup> Avenue, Oakland, California

| Well ID     | Date       | Well      | Depth to     | Water Table |          | Benzene | Toluene |             | Xylenes           |         | TBE     | TBA      |
|-------------|------------|-----------|--------------|-------------|----------|---------|---------|-------------|-------------------|---------|---------|----------|
| (screen     | Sampled    | Elevation | Water        | Elevation   | (8015Cm) |         | `       | thod 8021B) |                   | (8021B) | (8260B) | (8260B)  |
| interval in | Sampled    | (ft amsl) | (ft from TOC | (ft amsl)   | μg/L     | μg/L    | μg/L    | μg/L        | μg/L              | μg/L    | μg/L    | μg/L     |
| MW-2        | 1/9/2006   | 10.77     | 6.18         | 4.59        | <50      | <0.5    | < 0.5   | <0.5        | <0.5              | 6.1     | 7.6     | <5.0     |
| continued   | 4/10/2006  | 10.77     | 6.27         | 4.50        | 50       | <0.5    | 8.0     | 1.5         | 6.1               | <5.0    | 1.1     | <5.0     |
| Continued   | 7/11/2006  | 10.77     | 6.97         | 3.80        | <50      | <0.5    | 0.72    | < 0.5       | < 0.5             | <5.0    | 4.1     | <5.0     |
|             | 10/18/2006 | -         | -            | -           | 53       | <0.5    | 2.6     | 1.2         | 4.3               | <5.0    | 1.7     | <5.0     |
|             | 3/13/2008  | 10.77     | 6.66         | 4.11        | <50      | <0.5    | < 0.5   | < 0.5       | <0.5              | <5.0    | 3.0     | <2.0     |
| MW-3        | 9/30/2002  | 10.20     | 5.21         | 4.99        | <50      | <0.5    | < 0.5   | < 0.5       | < 0.5             | <5.0    | < 0.5   | <5.0     |
| (4-14)      | 1/2/2003   | 10.20     | 5.31         | 4.89        | <50      | 0.89    | 0.50    | < 0.5       | 0.72              | 15      | 14      | -        |
| ()          | 3/31/2003  | 10.20     | 4.58         | 5.62        | <50      | <0.5    | < 0.5   | < 0.5       | < 0.5             | <5.0    | 0.62    | 4        |
|             | 6/30/2003  | 10.20     | 3.83         | 6.37        | <50      | <0.5    | < 0.5   | < 0.5       | < 0.5             | <5.0    | 1.6     | -        |
|             | 10/1/2003  | 10.20     | 4.02         | 6.18        | <50      | <0.5    | < 0.5   | < 0.5       | < 0.5             | <5.0    | < 0.5   | -        |
|             | 1/5/2004   | 10.20     | 6.18         | 4.02        | 71       | 4.7     | 13      | 2.7         | 12                | -       | 7.8     | -        |
|             | 4/5/2004   | 10.20     | 3.79         | 6.41        | 120      | 8.8     | 22      | 3.2         | 13                | <5.0    | < 0.5   | <5.0     |
|             | 7/7/2004   | 10.20     | 3.76         | 6.44        | <50      | <0.5    | < 0.5   | < 0.5       | < 0.5             | <5.0    | 4.0     | <5.0     |
|             | 10/13/2004 | 10.20     | 4.45         | 5.75        | <50      | <0.5    | < 0.5   | < 0.5       | < 0.5             | <5.0    | < 0.5   | -        |
|             | 1/11/2005  | 10.20     | 5.21         | 4.99        | 68       | 2.2     | 9.0     | 1.7         | 8.5               | <5.0    | < 0.5   | <5.0     |
|             | 4/13/2005  | 10.20     | 4.44         | 5.76        | <50      | < 0.5   | < 0.5   | < 0.5       | < 0.5             | <5.0    | < 0.5   | <5.0     |
|             | 7/6/2005   | 10.20     | 3.91         | 6.29        | <50      | <0.5    | < 0.5   | < 0.5       | < 0.5             | <5.0    | < 0.5   | <5.0     |
|             | 10/6/2005  | 10.20     | 4.16         | 6.04        | <50      | <0.5    | < 0.5   | < 0.5       | < 0.5             | <5.0    | < 0.5   | <5.0     |
|             | 1/9/2006   | 10.20     | 4,44         | 5.76        | <50      | <0.5    | < 0.5   | < 0.5       | < 0.5             | <5.0    | < 0.5   | <5.0     |
|             | 4/10/2006  | 10.20     | 4.02         | 6.18        | <50      | < 0.5   | 4.0     | 0.78        | 3.3               | <5.0    | < 0.5   | <5.0     |
|             | 7/11/2006  | 10.20     | 3.53         | 6.67        | <50      | <0.5    | 0.51    | < 0.5       | 1.1               | <5.0    | 0.67    | <5.0     |
|             | 10/18/2006 | -         | -            | -           | <50      | < 0.5   | 2.2     | 0.76        | 3.1               | <5.0    | < 0.5   | <5.0     |
|             | 3/13/2008  | 10.20     | 4.45         | 5.75        | <50      | <0.5    | < 0.5   | < 0.5       | < 0.5             | <5.0    | 0.77    | <2.0     |
| MW-4        | 9/30/2002  | 11.07     | 5.50         | 5.57        | <100     | <0.5    | < 0.5   | < 0.5       | < 0.5             | 790     | 750     | <100     |
| (4-14)      | 1/2/2003   | 11.07     | 4.90         | 6.17        | <50      | < 0.5   | < 0.5   | < 0.5       | < 0.5             | 420     | 460     | -        |
| • •         | 3/31/2003  | 11.07     | 4.81         | 6.26        | <50      | <0.5    | < 0.5   | < 0.5       | < 0.5             | 1,500   | 1,400   | -        |
|             | 6/30/2003  | 11.07     | 4.61         | 6.46        | <50      | < 0.5   | < 0.5   | < 0.5       | < 0.5             | 1,600   | 1,200   | -        |
|             | 10/1/2003  | 11.07     | 4.76         | 6.31        | <50      | <0.5    | < 0.5   | < 0.5       | < 0.5             | 1,800   | 1,400   | -        |
|             | 1/5/2004   | 11.07     | 4.32         | 6.75        | <50      | 3.0     | 6.7     | 1.4         | 6.1               | -       | 1,200   | -        |
|             | 4/5/2004   | 11.07     | 4.43         | 6,64        | <50      | 0.79    | 2.0     | < 0.5       | 2.2               | 800     | 840     | <250     |
|             | 7/7/2004   | 11.07     | 5.08         | 5.99        | <50      | < 0.5   | < 0.5   | < 0.5       | < 0.5             | 1,400   | 2,100   | <250     |
|             | 7/19/2004  | 11.07     | 5.19         | 5.88        | <50      | < 0.5   | < 0.5   | < 0.5       | < 0.5             | 1,200   | 1,300   | <500     |
|             | 8/6/2004   | 11.07     | 5.20         | 5.87        | <50      | 0.76    | < 0.5   | < 0.5       | <sup>-</sup> <0.5 | 1,300   | 1,200   | <500     |
|             | 8/20/2004  | 11.07     | 5.37         | 5.70        | <50      | <0.5    | < 0.5   | < 0.5       | < 0.5             | 460     | -       | •        |
|             | 9/3/2004   | 11.07     | 5.35         | 5.72        | <50      | < 0.5   | < 0.5   | < 0.5       | < 0.5             | 440     | 370     | <50      |
|             | 10/13/2004 | 11.07     | 5.35         | 5.72        | <50      | < 0.5   | < 0.5   | < 0.5       | < 0.5             | 330     | 360     | <u>-</u> |
|             | 1/11/2005  | 11.07     | 4.99         | 6.08        | <50      | 1.0     | 2.1     | < 0.5       | 1.8               | 450     | 430     | <100     |

Table 3
Historical Groundwater Monitoring Analytical Data
796 66<sup>th</sup> Avenue, Oakland, California

| Well ID<br>(screen | Date       | Well<br>Elevation | Depth to<br>Water | Water Table<br>Elevation | TPH-g<br>(8015Cm) | Benzene | Toluene<br>(EPA me | Ethylbenzene<br>thod 8021B) | Xylenes | <b>M</b> T<br>(8021B) | (8260B) | TBA<br>(8260B) |
|--------------------|------------|-------------------|-------------------|--------------------------|-------------------|---------|--------------------|-----------------------------|---------|-----------------------|---------|----------------|
| interval in        | Sampled    | (ft amsl)         | (ft from TOC      | (ft amsl)                | μg/L              | μg/L    | μg/L               | μg/L                        | μg/L    | μg/L                  | μg/L    | μg/L           |
| MW-4               | 4/13/2005  | 11.07             | 5.17              | 5.90                     | <50               | <0.5    | < 0.5              | <0.5                        | < 0.5   | 340                   | 200     | <50            |
| continued          | 7/6/2005   | 11.07             | 5.18              | 5.89                     | <50               | <0.5    | < 0.5              | < 0.5                       | < 0.5   | 300                   | 290     | 330            |
| Continuca          | 10/6/2005  | 11.07             | 5.03              | 6.04                     | <50               | < 0.5   | < 0.5              | < 0.5                       | < 0.5   | 380                   | 350     | 430            |
|                    | 1/9/2006   | 11.07             | 4.11              | 6.96                     | <50               | <0.5    | < 0.5              | < 0.5                       | < 0.5   | 140                   | 150     | 200            |
|                    | 4/10/2006  | 11.07             | 4.13              | 6.94                     | <50               | < 0.5   | 1.0                | < 0.5                       | 1.1     | 52                    | 39      | 120            |
|                    | 7/11/2006  | 11.07             | 4.72              | 6.35                     | <50               | <0.5    | < 0.5              | < 0.5                       | < 0.5   | 56                    | 66      | 120            |
|                    | 10/18/2006 | -                 | -                 | -                        | <50               | <0.5    | 0.74               | 0.55                        | 2.5     | 87                    | 67      | 160            |
|                    | 3/13/2008  | 11.07             | 4.95              | 6.12                     | <50               | <0.5    | < 0.5              | < 0.5                       | < 0.5   | 19                    | 22      | 69             |
| MW-5               | 9/30/2002  | 11.18             | 5.62              | 5.56                     | <2,000            | <5.0    | <5.0               | <5.0                        | < 5.0   | 19,000                | 18000   | <2,500         |
| (4-14)             | 1/2/2003   | 11.18             | 5.12              | 6.06                     | <50               | <0.5    | < 0.5              | < 0.5                       | < 0.5   | 7,000                 | 7,000   | **             |
| (4-14)             | 3/31/2003  | 11.18             | 4.93              | 6.25                     | <500              | <5.0    | <5.0               | <5.0                        | < 5.0   | 14,000                | 12,000  | -              |
|                    | 6/30/2003  | 11.18             | 4.75              | 6.43                     | <500              | <5.0    | < 5.0              | < 5.0                       | <5.0    | 13,000                | 15,000  | -              |
|                    | 10/1/2003  | 11.18             | 4.88              | 6.30                     | <500              | <5.0    | <5.0               | <5.0                        | <5.0    | 12,000                | 11,000  | -              |
|                    | 1/5/2004   | 11.18             | 4.19              | 6.99                     | <1,000            | <10     | <10                | <10                         | <10     |                       | 11,000  | -              |
|                    | 4/5/2004   | 11.18             | 4.57              | 6.61                     | <250              | <2.5    | <2.5               | <2.5                        | <2.5    | 9,400                 | 13,000  | <2,500         |
|                    | 7/7/2004   | 11.18             | 5.19              | 5.99                     | <500              | <5.0    | <5.0               | <5.0                        | < 5.0   | 15,000                | 19,000  | <2,000         |
|                    | 7/19/2004  | 11.18             | 5.32              | 5.86                     | <500              | <5.0    | <5.0               | < 5.0                       | < 5.0   | 16,000                | 14,000  | <2,500         |
|                    | 8/6/2004   | 11.18             | 5.33              | 5.85                     | 110               | <0.5    | < 0.5              | < 0.5                       | < 0.5   | 12,000                | 11,000  | <2,500         |
|                    | 8/20/2004  | 11.18             | 5.49              | 5.69                     | <500              | <5.0    | < 5.0              | <5.0                        | < 5.0   | 7,200                 | -       | -              |
|                    | 9/3/2004   | 11.18             | 5.48              | 5.70                     | <500              | <2.5    | <2.5               | <2.5                        | <2.5    | 8,500                 | 7,200   | <1,700         |
|                    | 10/13/2004 | 11.18             | 5.49              | 5.69                     | <250              | <2.5    | <2.5               | <2.5                        | <2.5    | 6,700                 | 7,700   | -              |
|                    | 1/11/2005  | 11.18             | 5.08              | 6.10                     | <100              | 1.5     | 3.3                | <1.0                        | 2.3     | 3,000                 | 4,800   | 1,200          |
|                    | 4/13/2005  | 11.18             | 5.24              | 5.94                     | <50               | < 0.5   | < 0.5              | < 0.5                       | < 0.5   | 510                   | 320     | 2,600          |
|                    | 7/6/2005   | 11.18             | 5.27              | 5.91                     | <50               | <0.5    | < 0.5              | < 0.5                       | < 0.5   | 43                    | 51      | 4,900          |
|                    | 10/6/2005  | 11.18             | 5.14              | 6.04                     | <50               | <0.5    | < 0.5              | < 0.5                       | < 0.5   | 25                    | <25     | 1,900          |
|                    | 1/9/2006   | 11.18             | 4.23              | 6.95                     | <50               | <0.5    | < 0.5              | < 0.5                       | < 0.5   | 70                    | 84      | 2,000          |
|                    | 4/10/2006  | 11.18             | 4.24              | 6.94                     | <50               | <0.5    | 0.59               | < 0.5                       | < 0.5   | 13                    | - 11    | 860            |
|                    | 7/11/2006  | 11.18             | 4.85              | 6.33                     | <50               | <0.5    | < 0.5              | < 0.5                       | < 0.5   | 20                    | 24      | 1,200          |
|                    | 10/18/2006 |                   | -                 | -                        | <50               | < 0.5   | 1.6                | 0.51                        | 1.8     | 17                    | 12      | 1,300          |
|                    | 3/13/2008  | 11.18             | 5.04              | 6.14                     | <50               | <0.5    | < 0.5              | < 0.5                       | < 0.5   | 10                    | 11      | 750            |
| RWQCB ES           | L May 2008 |                   |                   |                          | 210               | 46      | 130                | 43                          | 100     | 1,800                 | 1,800   | 18,000         |

Commercial/Industrial - Non drinking water

Notes:

bgs = below ground surface

ft amsl = feet above mean sea level

TOC = Top of Casing, all well elevations and depths to water are measured from TOC

TPH-g = Total Petroleum Hydrocarbons as gasoline

μg/L = micrograms per liter

MTBE = Methyl tertiary-Butyl Ether

TBA = tertiary-Butyl Alcohol

- = Sample not analyzed by this method

Table 2 Historical Soil Boring Groundwater Sample Analytical Data 796 66<sup>th</sup> Avenue, Oakland, California

| Sample      |              | TPH-g  | TPH-d    | TPH-mo   | MTBE   | TBA    | MTBE   | Benzene | Toluene    | Ethyl<br>benzene | Xylenes | Lead    |
|-------------|--------------|--------|----------|----------|--------|--------|--------|---------|------------|------------------|---------|---------|
| ID          | Date         |        |          |          | (EPA   | 8260)  |        |         | (EPA 8021B | )                |         |         |
| 10          | <b>D</b> 440 | μg/L   | μg/L     |          | μg/L   | μg/L   | μg/L   | μg/L    | μg/L       | μg/L             | μg/L    | mg/L    |
| SB-1 W      | 7/17/2001    | <50    | -        | -        | -      | -      | 650    | 0.63    | < 0.5      | < 0.5            | <0.5    | -       |
| SB-2 W      | 7/17/2001    | <50    | -        | -        | _      | -      | <5.0   | < 0.5   | < 0.5      | < 0.5            | < 0.5   | -       |
| SB-3 W      | 7/17/2001    | 120    | -        | *        | •      | -      | <5.0   | < 0.5   | 4.6        | < 0.5            | < 0.5   | -       |
| SB-4 W      | 7/17/2001    | <50    | 990      | -        | -      | -      | <5.0   | < 0.5   | < 0.5      | < 0.5            | < 0.5   | -       |
| SB-5 W      | 7/17/2001    | 68     | 410      | -        | •      | -      | <5.0   | < 0.5   | 0.66       | < 0.5            | < 0.5   | -       |
| SB-6 W      | 7/17/2001    | 240    | 590      | -        | -      | =      | <5.0   | < 0.5   | 2.9        | <0.5             | < 0.5   | *       |
| SB-7 W      | 9/28/2001    | <50    | *        | •        | < 0.5  | -      | <5.0   | < 0.5   | 0.74       | < 0.5            | < 0.5   | •       |
| SB-9 W      | 9/28/2001    | <50    | ••       | -        | 630    | -      | 670    | < 0.5   | 1.0        | < 0.5            | < 0.5   | *       |
| SB-10 W     | 9/28/2001    | <500   | •        | _        | 13,000 | -      | 15,000 | <2.0    | <2.0       | 2.5              | <2.0    | -       |
| SB-11 W     | 9/28/2001    | 58     | -        | -        | 1,700  | -      | 1,900  | 2.4     | 1.8        | < 0.5            | 0.79    | -       |
| GW*         | 11/30/2001   | 44,000 | •        | -        | •      | -      | 42,000 | 590     | 5100       | 640              | 3500    | . **    |
| SB-12       | 9/6/2002     | <1000  | -        | -        | 32,000 | -      | 31,000 | 44      | <10        | <10              | <10     | < 0.005 |
| SB-13       | 9/6/2002     | 13,000 | <u>.</u> | -        | 49,000 | -      | 51,000 | 300     | 1700       | 320              | 1,800   | < 0.005 |
| SB-14       | 9/6/2002     | <500   |          | <u> </u> | 9,500  | _      | 11,000 | < 5.0   | < 5.0      | < 5.0            | < 5.0   | < 0.005 |
| SB-15       | 9/6/2002     | 300    | _        | -        | 770    | •      | 730    | < 0.5   | 3.2        | 0.71             | 3.5     | 0.039   |
| SB-16       | 9/6/2002     | <200   | - 💂      | _        | 2,700  | -      | 3,900  | <1      | 2.1        | <1               | 2.5     | < 0.005 |
| SB-17       | 9/6/2002     | <200   | -        | _        | 5,500  | *      | 5,900  | <1.7    | 3.8        | <1.7             | 4.2     | < 0.005 |
| SB-17-W 47' | 9/6/2002     | 90     | -        | 4        | 120    | -      | 150    | 1.7     | 3.5        | 1.9              | 3.5     | . •     |
| SB-18-W     | 7/1/2008     | 8,500  | -        | -        | 1300   | 6,800  | 1,100  | 40      | 270        | 240              | 1,000   | *       |
| SB-21-W     | 7/1/2008     | <50    | 180      | 360      | 11     | 160    | 11     | < 0.5   | < 0.5      | < 0.5            | < 0.5   | -       |
| SB-22-W     | 7/1/2008     | <50    | *        | -        | 9.2    | < 2.0  | 8.3    | < 0.5   | < 0.5      | < 0.5            | < 0.5   | -       |
| RWQCB ESL   | . May 2008   | 210    | 210      | 210      | 1,800  | 18,000 | 1,800  | 46      | 130        | 43               | 100     |         |

Table F-1b Commercial/Industrial Non drinking water

Additional analyses

VOCs all ND, PCBs all ND, Metals bottle broken in transit, no analysis

MDL = Method Detection Limit

μg/L = micrograms per liter (ppb)

- = Sample not analyzed by this method

\* Sample GW was collected from standing water within the tank excavation

Sample location removed during additional excavation

Table 6. Groundwater Analytical Data Summary,
Preacquisition Due Diligence Investigation,
McGuire and Hester, Oakland, CAa

| Sample<br>Designation | Sample<br>Date | TPH <sup>b</sup> Concentration (mg/L) |
|-----------------------|----------------|---------------------------------------|
| MW - 1                | 7-11-88        | 0.72                                  |
| MW - 2                | 7-11-88        | 60                                    |
| MW - 3                | 7-11-88        | 33                                    |
| MW - 4                | 8-11-88        | 2300                                  |

a Summary of analytical results presented in Purcell, Rhoades & Associates report dated August 16, 1988 (preliminary and supplemental reports).

b Total petroleum hydrocarbons reported as diesel by EPA Method 3510/8015. Results experienced in milligrams per liter (mg/L). Sampling method may not have been appropriate for site conditions.

c Concentration reported as petroleum oil by Method 418.1.



Environmental Geotechnical Consultants 2504 Technology Drive Hayward, CA 94545 Attn: Pam Morrill

Date Sampled: 07/11/88
Date Received: 07/14/88
Date Analyzed: 07/15/88
Date Reported: 07/18/88

Project: #4780-01, Cruise

America

### TOTAL PETROLEUM HYDROCARBONS

| Sample<br>Number | Sample Description Water | Detection Limit ppb | High Boiling Point Hydrocarbons ppb |
|------------------|--------------------------|---------------------|-------------------------------------|
| 8070925          | MW-1                     | 50                  | . 720                               |
| 8070926          | MW-2                     | 50                  | 60000                               |

Method of Analysis: EPA 3510/8015

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton Laboratory Director



Environmental Geotechnical Consultants

2504 Technology Drive Hayward, CA 94545

Attn: Pam Morrill

Date Sampled: 07/11/88

Date Received: 07/12/88

Date Analyzed: 07/13/88 Date Reported: 07/14/88

Project: #4780-01, Cruise America/McGuire & Hester

#### TOTAL PETROLEUM HYDROCARBONS

| Sample  | Sample      | Detection | High Boiling       |
|---------|-------------|-----------|--------------------|
| Number  | Description | Limit     | Point Hydrocarbons |
| ,       | Water       | ppb       | ppb                |
|         | •           |           |                    |
|         |             |           |                    |
| 8070748 | E-WM        | 50        | 33000              |

Method of Analysis: EPA 3510/8015 ...

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton Laboratory Director

Table 4
Fuel Oxygenate and Lead Scavenger Data

| Sample<br>ID | Date      | Diisopropyl ether<br>(DIPE)<br>µg/L | Ethyl tert-butyl ether<br>(ETBE)<br>µg/L | Methyl-t-butyl ether<br>(MTBE)<br>µg/L | tert-Amyl methyl ether<br>(TAME)<br>µg/L | t-Butyl alcohol<br>(TBA)<br>µg/L | 1,2-Dibromoethane<br>(EDB)<br>µg/L | 1,2-Dichloroethane<br>(1,2-DCA)<br>µg/L |
|--------------|-----------|-------------------------------------|--|--|--|----------------------------------|------------------------------------|---|
| MW-1         | 9/30/2002 | <500                                | <500                                     | 13,000                                 | <500                                     | <500                             | <500                               | <500                                    |
| MW-2         | 9/30/2002 | <0.5                                | <0.5                                     | 0.84                                   | <0.5                                     | <0.5                             | <0.5                               | <0.5                                    |
| MW-3         | 9/30/2002 | <0.5                                | <0.5                                     | <0.5                                   | <0.5                                     | <0.5                             | < 0.5                              | <0.5                                    |
| MW-4         | 9/30/2002 | <10                                 | <10                                      | 750                                    | <10                                      | <100                             | <10                                | <10                                     |
| MW-5         | 9/30/2002 | <250                                | <250                                     | 18,000                                 | <250                                     | <2,500                           | <250                               | <250                                    |
| MDL          |           | 0.5                                 | 0.5                                      | 0.5                                    | 0.5                                      | 5                                | 0.5                                | 0.5                                     |

MDL = Method Detection Limit

ND = Not detected above the Method Detection Limit (unless otherwise noted)

μg/L = micrograms per liter (ppb)

mg/I. = milligrams per liter (ppm)

- = Sample not analyzed by this method

| and the second second second   | 5lows/<br>Ft.                           | Sample<br>No.  | uscs   | DESCRIPTION  | WELL<br>CONST. |
|--|---|--|--|--|----------------|
| -  |   | I  |  | 3" Asphalt   |                |
|  |   |  | Piil   | Sandy gravelly clay  |                |
| -  | *************************************** | s-5 []   | CL T   | Sandy clay, black-brown, damp, slight plasticity, hard, no product odor.   |                |
| Siddy Address of the State of t |   |  | A CONTRACT OF THE PROPERTY OF  | The company was species his on a species and species which species which which which which which which which we have   |                |
| a literature de Angel  |   |  | ML.  | Sandy clay, brown, wet, low plasticity, very stiff, no product odor.   |                |
| -  | 29                                      | s-10 []  |  |  |                |
|  | 1. 6.                                   | 3777   |  |  |                |
| -  |   |  | ***  | 「機能性性」とはあり、「Manager of the Conference of the C   |                |
| and the same of th |   |  | L <sub>CL</sub> -  | Sandy gravelly clay, brown-gray-green, wet,  |                |
|  | +ul (51)                                |  |  | medium plasticity, very stiff, no product odor.  |                |
| - Charterson to  | 61                                      | S-15   |  |  |                |
| AMONDACASAMAN  |   |  | inglé de la constant  |  |                |
| 1  |   |  | A CALLES   | The state of the s |                |
|  |   |  | CH   | Clay, brown, wet, high plasticity, very stiff, no product odor, trace sand.  | 1              |
| -  | 41                                      | s-20   |  | no produce osser, reserve  |                |
|  | ,                                       |  |  |  |                |
| _  |   |  |  |  | ## 3           |
| J  |   | and the second   |  | ·  |                |
|  | 39                                      | s-25   |  | Clay, brown-gray, wet, high plasticity, very stiff, no product odor.   | Caved          |
|  |   | Control of the contro | A CONTRACTOR OF THE CONTRACTOR | Total Depth = 27 feet  Boring terminated at sufficient depth for monitoring well.  |                |
|  |   |  | -  |  |                |



LOG OF BORINGB-21MW-2

PLATE

McGuire and Baster 796 66 ATT/ Oakland,

**ATTACHMENT 6** 

| (National of State of | Blows/<br>F1. | Samp<br>No.  |  | uscs  | DESCRIPTION  | COL | ELL<br>NST. |
|--|---------------|--|--|---|--|-----|-------------|
| i de la companya del la companya de  |               |  |  | Fill  |  |     |             |
|  | 23            | S-5  | 十二國  | e de la companya de l    | Sandy clay, green and black, damp, low plasticity, very stiff, slight oily product odor.   |     |             |
| And the second s | 10            | S-10   | American State of the Control of the | CL<br>The children of the childre | Clay with gravel and wood, black, moist, low plasticity, stiff, slight product odor.  Clay with some gravel and wood, green and brown, very moist, high plasticity, very stiff, no product odor. |     |             |
|  | 27            | D 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5  |  | i i de la commencia della commencia della commencia della commencia della comm    | Sandy clay with wood, brown and black, very moist,<br>low plasticity, very stiff, no product odor.   |     |             |
|  | 25            | S-25   |  | and the second s    | Clay with trace sand, brown, very moist, high plasticity, very stiff, no product odor.   |     |             |
|  |               | and a second department of the second departme |  |   | Section continues downward<br>Continued on next page   |     |             |



LOG OF BORINGB-3/MW-3

PLATE

McGuire and Hester 796 66th Avenue Oakland, California

P-6

|     | Blows/<br>Ft.  | Sample<br>No.  | uscs                                   | DESCRIPTION  | WELL<br>CONST.   |
|-----|--|--|--|--|--|
| 30- | 22   | S-30   | CII                                    | Clay, brown, very moist, high plasticity, very stiff, no product odor.           |  |
| 32- |  |  |  |  |  |
| 34- |  |  | CL                                     | Clayey sand with some gravel, brown, wet, no plasticity, dense, no product odor. | Caved  |
| 36- | 45   | S-35 [   |  | Total Depth = 36 feet  |  |
| 38- |  | and the second s | international production of the second | Boring terminated at sufficient depth for monitoring well.                       |  |
| 40- |  |  |  |  |  |
|     |  |  |  |  |  |
|     |  |  |  |  |  |
|     |  |  |  |  | And the second s |
| -   |  | A PART A STATE |  |  |  |
|     |  | Si Combinition and April 1995 (Speed)  |  |  |  |
|     |  | AL ALVOYON TO A PARTY OF THE PA |  |  | **************************************   |
|     |  | e de la constante de la consta |  |  |  |
|     |  |  |  |  |  |
|     | The second secon |  |  |  | The state of the s |
|     |  |  |  |  |  |



LOG OF BORING B-3/MW-3

PLATE

McGuire and Hester 796 66th Avenue Oakland, California

P-7

| DRILL Mobile B-40  | BORING Ext. Grade                                       | LOGGED<br>BY             | Pı                      | JM                        |                                    | ,      | PROJE              | CT NO.             | 4780-0            | l  | BORING<br>NO.         |
|--|---|--------------------------|-------------------------|---------------------------|------------------------------------|--------|--------------------|--------------------|-------------------|--|-----------------------|
| DEPTH TO<br>GROUNDWATER 6'   | BORING<br>DIAMETER 6"                                   | DATE<br>DRILLED          | 7,                      | /11/                      | 88                                 | ţ      | HEET               | 1 OF 1             |                   |  | B-20                  |
| BORIN SOIL/DESCRIPTION—  | RATORY IG LOG ROCK CLASSIFICATION EMARKS                | CONSISTENCY              | GROUP SYMBOL (U.S.C.S.) | WATER LEVEL / GRAPHIC LOG | DEPTH IN FEET                      | SANILE | BLOW COUNTS / FOOT | % MOISTURE CONTENT | DRV DENSITY (PCF) | UNCONFINED COMPRESSIVE<br>STRENGTH (PSF) | PLASTICITY INDEX (PI) |
| Silty SAND, dark gra<br>increasing clay w/<br>plastic, gravelly,<br>Sandy CLAY, dark blu<br>moist, with some p<br>angular gravels. | depth, slighty product odor. e-green-gray, oorly sorted | medium<br>dense<br>stiff | SM                      |                           | 1-<br>2-                           |        | 37                 |                    |                   |  |                       |
| Wood debris, decompo<br>undecomposed, blac<br>product odor<br>Wood debris, black,<br>grab sample.                                  | k, moist, wet, oily feel,                               |                          |                         |                           | 4                                  |        |                    | -                  |                   |  |                       |
| Boring Terminated At   | b≱ reet   |                          |                         |                           | 8-<br>9-<br>10-                    | •      |                    | ·                  |                   |  |                       |
|  |   |                          |                         |                           | 2-<br>3-<br>4-                     |        |                    |                    | ·                 |  |                       |
|  |   |                          |                         |                           | 15 <del>-</del> 6 <del>-</del> 7 - |        |                    |                    |                   |  |                       |
|  |   |                          |                         |                           | 8-<br>9-<br>20-                    |        |                    |                    |                   |  |                       |
| ( <b>3</b> )   | DES & ASSOCIATES SOIL ENGINEERING § GEOLOGY             | TITLE                    | FI                      | GUR                       | E 3 -                              | LO     | G OF               | TEST 1             | BORING            | B-20                                     |                       |

| DRILL Mobile B-40 BORING Ext. Grade   | LOGGED<br>BY    | P                       | JM                        |   | I       | PROJE              | CT NO.                   | 4780-0                  | 1 B                                      | ORING<br>NO.          |
|---|-----------------|-------------------------|---------------------------|---|---------|--------------------|--------------------------|-------------------------|--|-----------------------|
| DEPTH TO BORING DIAMETER 6"   | DATE<br>DRILLED |                         | /11/                      | /88   | s       | HEET               | 1 OF                     |                         |  | B-21                  |
| EXPLORATORY BORING LOG  SOIL/ROCK DESCRIPTION—CLASSIFICATION AND REMARKS                | CONSISTENCY     | GROUP SYMBOL (U.S.C.S.) | WATER LEVEL / GRAPHIC LOG | DEPTH IN FEET   | SAMMLE  | BLOW COUNTS / FOOT | % MOISTURE CONTENT       | DRY DENSITY (PCF)       | UNCONFINED COMPRESSIVE<br>STRENCTH (PSF) | PLASTICITY INDEX (PI) |
| Silty Gravels, light brown, dry, baserock.  | dense           | _GM                     | 828<br>970                |   |         |                    |                          |                         |  |                       |
| Clayey Gravels, grayish brown, moist,<br>hard, black sandstone frags., product<br>odor. | dense           | GC                      | 9000                      | 2-  |         | - E                |                          |                         |  |                       |
| Clay, gray, plastic, moist.   | stiff           | ОН                      |                           | 3-  | di<br>T | 15                 | <b>(46 km) dan</b> i km, | quay took and olds 'yea | don't don't don't an                     | 444 444               |
| Clay, gray, plastic, wet.   | stiff           | ОН                      | 1                         | 5-  |         | 5                  | **** **** ***            |                         | , en emi ma                              |                       |
| Boring Terminated At 5½ Feet  |                 |                         |                           | 6-<br>7-<br>8-<br>9-<br>10-<br>1-<br>2-<br>3-<br>4-<br>15-<br>8-<br>9-<br>20- |         |                    |                          |                         |  |                       |
| PURCELL, RHOADES & ASSOCIATES FOUNDATION ENGINEERING § SOIL ENGINEERING § GEOLOGY       | TITLE           | FI                      | GURI                      | E 4 -   | LO      | G OF               | TEST I                   | BORING                  | B-21                                     |                       |

| DRILL<br>RIG Mobile B-40   | BORING<br>ELEVATION Ext. Grade          |                 | Р                       | JM:                        |                |        | PROJE              | CT NO.              | 4780-0            | 1  | ORING<br>NO.                        |
|--|---|-----------------|-------------------------|----------------------------|----------------|--------|--------------------|---------------------|-------------------|--|-------------------------------------|
| DEPTH TO<br>GROUNDWATER NONE                                       | BORING<br>DIAMETER 6"                   | DATE<br>DRILLED | 7                       | /11                        | /88            |        | SHEET              | 1 OF                |                   |  | B-22                                |
| BORIN<br>SOIL/   | RATORY G LOG ROCK CLASSIFICATION CMARKS | CONSISTENCY     | GROUP SYMBOL (U.S.C.S.) | NATER LEVEL / GRAPHIC 1.0G | DEPTH IN FEET  | SAMPLE | BLOW COUNTS / FOOT | % MOISTL'RE CONTENT | DRY DENSITY (PCF) | UNCONFINED COMPRESSIVE<br>STRENGTH (PSF) | PLASTICITY INDEX (PI)               |
| Silty GRAVELS. light   | brown, dry baserock.                    | dense           | GM                      | 0000                       | -              |        |                    |                     |                   |  |                                     |
| Sandy CLAY, very dark<br>plastic, strong odd                       |   | stiff           | CL                      | 1010                       | 1-<br>-<br>2-  | I      |                    |                     |                   |  |                                     |
| Sandy CLAY, dark blue<br>moderately plastic<br>coarse angular grav | , with some                             | stiff           | CL                      |                            | 3              | EM     | 25                 | 240 244 1144 444    |                   | tine time the se                         |                                     |
| of sandstone with p  | product odor, black.                    |                 |                         |                            | 4-<br>5-       |        | 30                 |                     |                   |  |                                     |
| Boring Terminated At   | 5½ Feet                                 |                 |                         |                            | 6-             |        | 30                 |                     | ***               | MA-MA AND A                              | -                                   |
|  |   |                 |                         |                            | 7 - 3<br>8 - 4 |        |                    |                     |                   |  |                                     |
|  |   |                 |                         |                            | 9×             |        |                    |                     |                   |  |                                     |
|  |   |                 |                         |                            | 10-<br>1-      |        |                    |                     |                   |  |                                     |
| ·  |   |                 |                         |                            | 2-             |        |                    |                     |                   |  | See tak tree where the commerce and |
|  |   |                 |                         |                            | 3-<br>4-       |        |                    |                     |                   |  |                                     |
|  |   |                 |                         |                            | 15-            |        |                    |                     |                   |  |                                     |
|  |   |                 |                         |                            | 6 -<br>7 -     |        |                    |                     |                   |  | ,                                   |
|  |   |                 | :                       |                            | 8-             |        |                    |                     |                   |  |                                     |
|  |   |                 |                         |                            | 9-<br>20-      |        | ,                  |                     |                   |  |                                     |
|  |   |                 | :                       |                            | 1-<br>1-       |        |                    |                     |                   |  |                                     |
| PURCELL, RHOAD FOUNDATION ENGINEERING § S                          |   | TITLE           | FIG                     | URE                        | 5 -            | L00    | G OF               | TEST B              | ORING E           | 3-22                                     | f                                   |

d.

| DRILL Mobile B-40 BORING Ext. Grade   |                 | P                       | JM                                  |  |        | PROJI              | CT NO.             | 4780-0                 | 1   | BORING<br>NO.         |
|---|-----------------|-------------------------|-------------------------------------|--|--------|--------------------|--------------------|------------------------|---|-----------------------|
| DEPTH TO BORING GROUNDWATER NONE DIAMETER 6"  | DATE<br>DRILLED | 7                       | /11                                 | /88  |        | SHEET              | 1 OF               |                        |   | B-23                  |
| EXPLORATORY BORING LOG  SOIL/ROCK DESCRIPTION—CLASSIFICATION AND REMARKS                    | CONSISTENCY     | GROUP SYMBOL (U.S.C.S.) | nater level / Graphic Log           | DEPTH IN FEET  | SAMPLE | BLOW COUNTS / FOOT | % MOIST!RE CONTENT | DRY DENSITY (PCE)      | (INCONFINED COMPRESSIVE<br>STRENGTH (PSF) | PLASTICITY INDEX (P1) |
| Silty GRAVELS, brown, coarse angular gravels, dry.  Clayey SAND, black, non-plastic, moist. | dense<br>medium | GM<br>SC                | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1-<br>2-<br>3-   |        | 26                 | there was not not  |                        |   |                       |
| Boring Terminated AT 5 Feet   | dense           |                         |                                     | 4-<br>5-   | I      | 10                 |                    | pap tine bels blis one | 9000 Main an                              |                       |
|   | TITLE           |                         |                                     | 6<br>7<br>8<br>9<br>10<br>1<br>2<br>3<br>4<br>7<br>8<br>9<br>20<br>1 |        |                    |                    |                        |   |                       |
| PURCELL, RHOADES & ASSOCIATES FOUNDATION ENGINEERING § SOIL ENGINEERING § GEOLOGY           | e n n dutkii    | FI                      | GURI                                | Ξ 6 -  | L0     | G OF               | TEST B             | ORING                  | B-23                                      |                       |

| DRILL<br>RIG Mobile B-40   | BORING<br>ELEVATION Ext. Grade              | LOGGED<br>BY    | Þ                       | JM                                      |  | P      | ROJE               | CT NO.             | 4780-0               | 1 B                                      | ORING<br>NO.          |
|--|---|-----------------|-------------------------|---|--|--------|--------------------|--------------------|----------------------|--|-----------------------|
| DEPTH TO<br>GROUNDWATER none   | BORING<br>DIAMETER 6"                       | DATE<br>DRILLED |                         | Z11.                                    | /88  | 5      | HEET               | oF                 |                      |  | B-24                  |
| EXPLOF<br>BORIN<br>SOIL/<br>DESCRIPTION—   | RATORY G LOG  ROCK CLASSIFICATION CMARKS    | CONSISTENCY     | GROUP SYMBOL (U.S.C.S.) | WATER LEVEL / GRAPHIC LOG               | DEPTH IN FEET  | SAMPLE | BLOW COUNTS / FOOT | % MOISTURE CONTENT | DRY DENSITY (PCF)    | UNCONFINED COMPRESSIVE<br>STRENGTH (PSF) | PLASTICITY (NDEX (PI) |
| Silty SAND, very dar<br>some gravels.<br>Clayey GRAVELS, dark<br>with some coarse, | blue-green-gray,                            | dense<br>dense  | SM<br>GC                | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 1-   | T      | 45                 | tern som dag ma    | Part 500 300 con con |  | -                     |
| damp.<br>Clayey SAND, very da  |   | medium<br>dense | SC<br>ČL                | % ////////////////////////////////////  | 7 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -                          | T      |                    |                    | ·                    |  |                       |
| CLAY, black, firm, p<br>fragments, strong  |   | TIPI            | UL.                     | $\ll$                                   | 5-   |        | 6                  |                    |                      |  |                       |
|  |   |                 |                         |   | 7-<br>8-<br>9-<br>10-<br>1-<br>3-<br>4-<br>7-<br>8-<br>9-<br>20- |        |                    |                    |                      |  |                       |
|  | DES & ASSOCIATES SOIL ENGINEERING § GEOLOGY | TITLE           | FI                      | GUR                                     | E 7 -  | LOG    | OF                 | TEST I             | BORING               | B-24                                     |                       |

| ORILL Mobile 8-40 RIG Mobile 8-40 DEPTH TO   | BORING Ext. Grade BORING 6" DIAMETER       | LOGGED<br>BY<br>DATE<br>DRILLED |                         | JM<br>/11/                | /88   |        | ·····              | CT NO.             | 4780-03           |                                       | oring<br>No.<br>B-25  |
|--|--|---------------------------------|-------------------------|---------------------------|---|--------|--------------------|--------------------|-------------------|---------------------------------------|-----------------------|
| BORIN SOIL DESCRIPTION   | RATORY IG LOG ROCK CLASSIFICATION EMARKS   | CONSISTENCY                     | GROUP SYMBOL (U.S.C.S.) | WATER LEVEL / GRAPHIC LOG | DEPTH IN FEET   | SAMPLE | BLOW COUNTS / FOOT | % MOISTERE CONTENT | DRY DENSITY (PCF) | UNCONFINED COMPRESSIVE STRENGTH (PSF) | PLASTICITY INDEX (PI) |
| Silty GRAVELS, light coarse angular grassilty SANDS, dark grayer fragments.  Clay, dark gray, player product odor.  Boring Terminated At | rayish-brown, of black shell astic, moist, | soft                            | GM SM                   | 8000000                   | 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 1 - 7 - 8 - 9 - 10 - 1 - 15 - 15 - 15 - 15 - 15 - 15 | ٠      | B                  |                    |                   |                                       |                       |
| •  | DES & ASSOCIATES                           | TITLE                           | FI                      | GUR                       | E 8 -   | . L00  | OF                 | TEST               | BORING            | B-25                                  |                       |

| DRILL Mobile B-40                                      | BORING Ext. Grade                           | LOGGED<br>BY    | Р                       | JM                        |               | P      | ROJE               | CT NO.             | 4780-0                   |  | RING<br>NO.           |
|--|---|-----------------|-------------------------|---------------------------|---------------|--------|--------------------|--------------------|--------------------------|--|-----------------------|
| DEPTH TO 51<br>GROUNDWATER                             | BORING 6"<br>DIAMETER                       | DATE<br>DRILLED | , 7                     | /11,                      | /88           | S      | HEET               | ] OF ]             |                          |  | B-26                  |
| EXPLOF<br>BORIN<br>SOIL/<br>DESCRIPTION—               | RATORY G LOG  ROCK CLASSIFICATION EMARKS    | CONSISTENCY     | GROUP SYMBOL (U.S.C.S.) | WATER LEVEL / GRAPHIC LOG | DEPTH IN FEET | SAMPLE | BLOW COUNTS / FOOT | % Moistere Content | DRY DENSITY (PCF)        | UNCONFINED COMPRESSIVE<br>STRENGTH (PSF) | PLASTICITY INDEX (PI) |
| Silty GRAVEL, light angular gravels, b                 | brown, dry coarse<br>aserock.               | dense           | ĞM                      | 0000                      | 1 -           | T      |                    |                    |                          |  |                       |
| Sandy CLAY, very dar<br>moist.                         |   | stiff<br>stiff  | _CL                     |                           | 2-            |        | 30                 |                    | **** **** **** **** **** | مند سب عبد س                             | ****                  |
| Sandy CLAY, dark blu<br>damp, with some co<br>gravels. |   | S L 1 I         | UL.                     |                           | 44            |        |                    |                    |                          |  |                       |
| Boring Terminated At by wood debris.                   | 5 Feet                                      |                 |                         |                           | 6             |        |                    |                    |                          |  |                       |
|  | DES & ASSOCIATES SOIL ENGINEERING & GEOLOGY | TITLE           | FI                      | GUR                       | E 9 -         | L-06   | G OF               | TEST               | BORING                   | B-26                                     |                       |

| DRILL Mobile B-40 BORING Ext. Grade   | LOGGED<br>BY            | Р                      | JM,                       |                       | ]      | PROJE              | ECT NO.                                 | 4780-0            | 1  | BORING<br>NO.         |
|---|-------------------------|------------------------|---------------------------|-----------------------|--------|--------------------|---|-------------------|--|-----------------------|
| DEPTH TO 5' BORING 6" CROUNDWATER 5' DIAMETER   | DATE<br>DRILLED         | , 7                    | /11                       | /88                   | 5      | HEET               | 1 OF                                    | L                 |  | B-27                  |
| EXPLORATORY BORING LOG  SOIL/ROCK DESCRIPTION—CLASSIFICATION AND REMARKS  | CONSISTENCY             | GROUP SYMBOL (US.C.S.) | WATER LEVEL / GRAPHIC LOG | DEPTH IN FEET         | SAMPLE | BLOW COUNTS / FOOT | % MOISTURE CONTENT                      | DRY DENSITY (PCF) | UNCONFINED COMPRESSIVE<br>STRENGTH (PSF) | PLASTICITY INDEX (PI) |
| Silty GRAVELS, light brown, dry baserock  Sandy CLAY, dark blue-green-gray, moist, with some angular gravels.  Sandy CLAY, very dark brown, moist, plastic. | dense<br>stiff<br>stiff | GM<br>CL<br>CL         | 0000                      | I<br>2<br>3           |        | 30                 | *************************************** |                   |  |                       |
| Clayey SANDS, black, wet.  Boring Terminated At 5½ Feet   | medium<br>dense         | SC                     | <b>3</b> 1/2/2            | 5-<br>6-<br>7-<br>8-  |        | 13                 | entina au un                            |                   | under date had                           |                       |
|   |                         |                        |                           | 10-                   | •      |                    |   |                   | ,  |                       |
|   |                         |                        |                           | 3-<br>4-<br>15-       |        |                    |   |                   |  |                       |
|   |                         |                        |                           | 7-<br>8-<br>9-<br>20- |        |                    |   |                   |  |                       |
| PURCELL, RHOADES & ASSOCIATES FOUNDATION ENGINEERING § SOIL ENGINEERING § GEOLOGY   | TITLE                   | FI                     | GURI                      | 10                    | - LC   | )<br>OG OF         | TEST                                    | BORING            | B-27                                     |                       |

| DRILL Mobile B-40                       | BORING Ext. Grade                           | LOGGED<br>BY    | P                       | JM                      |               | ]      | PROJE              | CT NO.             | 4780-0:           | 1                      | BORING<br>NO.         |
|---|---|-----------------|-------------------------|-------------------------|---------------|--------|--------------------|--------------------|-------------------|------------------------|-----------------------|
| DEPTH TO<br>GROUNDWATER NONE            | BORING<br>DIAMETER 6"                       | DATE<br>DRILLED | 7.                      | /11,                    | /88           | 5      | HEET               | 1 OF 1             |                   |                        | B-28                  |
| BORIN  SOIL/ DESCRIPTION—               | RATORY G LOG  ROCK CLASSIFICATION EMARKS    | CONSISTENCY     | GROUP SYMBOL (U.S.C.S.) | WATER LEVEL/GRAPHIC LOG | DEPTH IN FEET | SAMPLE | BLOW COUNTS / FOOT | % MOISTURE CONTENT | DRY DENSITY (PCF) | UNCONFINED COMPRESSIVE | PLASTICITY INDEX (PI) |
| Silty GRAVEL, light                     | brown, dry baserock                         | dense           | GM                      | 000                     |               |        |                    |                    |                   |                        |                       |
| Sandy CLAY, dark bro<br>plastic, moist. | wn, moderately                              | stiff           | CL                      |                         | 1<br>2<br>3   |        | 20                 |                    |                   | <b></b> .              |                       |
| CLAY, dark gray, pla                    | stic, moist.                                | stiff           | ОН                      |                         | 5-            |        | 20                 |                    |                   | <b>_</b> ,             |                       |
|   |   |                 |                         |                         | 6-            | 1524   |                    |                    |                   | •                      |                       |
| Boring Terminated At                    | 5½ Feet                                     |                 |                         |                         | 7-            |        |                    | -                  |                   |                        |                       |
|   |   | TITLE           |                         |                         | 8             |        |                    |                    |                   |                        |                       |
|   | DES & ASSOCIATES SOIL ENGINEERING & GEOLOGY | TITLE           | F                       | IGU                     | RE 11         | - 1    | LOG C              | F TEST             | BORIN             | G B-                   | -28                   |

| DRILL Mobile B-40 BORING  | ion Ext. Grade                  | LOGGED<br>BY    | P.   | JM                                      |                       | P  | ROJE   | CT NO.   | 4780-0             |  | ORING<br>NO.          |
|---|---------------------------------|-----------------|--|---|-----------------------|--|--|--|--------------------|--|-----------------------|
| DEPTH TO NONE BORING DIAMET   | <b>5</b> 11                     | DATE<br>DRILLED | 7,   | /11/                                    | /88                   | S  | HEÉT   | 1 OF 1   |                    |  | B-29                  |
| EXPLORATO BORING LO SOIL/ROCK DESCRIPTION—CLASS AND REMARK                        | OG<br>SIFICATION                | CONSISTENCY     | GROUP SYMBOL (U.S.C.S.)  | WATER LEVEL / GRAPHIC LOG               | DEPTH IN FEET         | SAMPLE   | BLOW COUNTS / FOOT   | % MOISTURE CONTENT   | DRY DENSITY (PCF.) | UNCONFINED COMPRESSIVE<br>STRENGTH (PSF) | PLASTICITY INDEX (PI) |
| Silty GRAVELS, light brown, baserock.  Sandy CLAY, dark brown, wit gravels, damp. |                                 | dense<br>stiff  | GM   | 000000000000000000000000000000000000000 | 2                     | Ī  | 33   |  | sian dan san san   | New John Sons                            |                       |
| Wood debris, black, decomposed Boring Terminated At 5 Feet                        |                                 |                 |  | 2.00                                    | 4                     |  |  | -  |                    |  |                       |
|   |                                 |                 |  |   | 9-<br>10-<br>1-<br>2- |  |  |  |                    |  |                       |
| •   |                                 |                 | ***************************************  |   | 3-<br>4-<br>15-       | AND THE RESIDENCE OF THE PROPERTY OF THE PROPE |  | AND  |                    |  |                       |
|   |                                 |                 | AND THE RESERVE THE PROPERTY OF THE PROPERTY O |   | 7-<br>8-<br>9-<br>20- |  | AND THE PROPERTY OF THE PROPER | ring pro- management states of property of the |                    |  |                       |
| PURCELL, RHOADES & FOUNDATION ENGINEERING § SOIL ENGI                             | ASSOCIATES<br>NEERING & GEOLOGY | TITLE           | F  | I GUF                                   | <u> </u><br>RE 12     | <u> </u>   | OG 0   | F TEST   | BORIN              | B-2:                                     | <u> </u>              |

| DRILL Mobile B-40 B                            | ORING<br>LEVATION Ext. Grade | LOGGED<br>BY    | P.                      | JM                                      |                   | P          | ROJE               | CT NO.             | 4780-0   | 1 B                                      | ORING<br>NO.          |
|--|------------------------------|-----------------|-------------------------|---|-------------------|------------|--------------------|--------------------|--|--|-----------------------|
| DEPTH TO 51 B                                  | ORING 6"                     | DATE<br>DRILLED | 7                       | /11/                                    | <b>'</b> 88       | s          | HEET               | 1 OF 1             |  |  | B-30                  |
| EXPLORABORING  SOIL/R  DESCRIPTION—CI AND REM  | G LOG  OCK  LASSIFICATION    | CONSISTENCY     | GROUP SYMBOL (U.S.C.S.) | WATER LEVEL / GRAPHIC LOG               | DEPTH IN FEET     | SAMME      | BLOW COUNTS / FOOT | % MOISTURE CONTENT | DRY DENSITY (PCF)  | UNCONFINED COMPRESSIVE<br>STRENGTH (PSF) | PLASTICITY INDEX (PI) |
| Silty GRAVELS, light b<br>baserock, coarse ang | rown, dry,<br>gular gravels. | dense           | GM                      | 000000000000000000000000000000000000000 | 1-                |            |                    |                    |  |  |                       |
| Sandy CLAY, very dark moist.                   |                              | stiff           | 0Н                      | 7                                       | 3 -<br>4 -<br>5 - |            |                    |                    | · Anna de la companya |  |                       |
| CLAY, black, wet, wood product odor.           | d debris,                    | soft            | <u> </u>                | 1/2                                     | 6-                | M          |                    |                    |  |  |                       |
| Boring Terminated At 5                         |                              |                 |                         |   | 7                 |            |                    |                    |  |  |                       |
| PURCELL, RHOADI FOUNDATION ENGINEERING § 50    |                              | TITLE           | F]                      | GUR                                     | E 13              | <u>-</u> L | 0G 0               | F TEST             | BORING   | G B-30                                   | )                     |

Project No: 5526

Sheet: 1 of 1

Project Name: Cruise America

Log of Borehole: SB-12

Client:

Location:

| Γ |       | USC  | s     |                           | Sar  | nple   | Data   |  |   |                           |
|---|-------|--|-------|---------------------------|--|--|--|--|---|---------------------------|
|   | Depth | Symbol   | Label | Subsurface<br>Description | Sample<br>Labei  | Туре   | Błow∕ft  | Recovery   | Well Data   | Remarks                   |
| T | 0-    |  |       | Ground Surface            |  |  |  |  |   |                           |
|   | 2     |  | GC    | Brown gravely sand        |  |  |  |  |   | moderate hydrocarbon odor |
| - | -     |  | SW    |                           | SB-12 5'   | SS   |  | 40   |   | PID = 35 ppm              |
|   |       |  |       |                           | ***************************************  |  |  |  |   |                           |
|   | 6~    |  |       | Black sandy gravel        |  | ļ.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,   |  |  |   | saturated PID = 50 ppm    |
| 1 |       |  |       |                           | SB-12 7'   | SS   |  | 90   |   |                           |
|   | 8     |  | CL    | Black gravely clay        | Address and the state of the st | *Pacinetore received for the first contraction of the first contraction | AND THE PROPERTY OF THE PROPER | paddisharappoorders .  |   |                           |
|   | 10-   |  | Ì     | End of Borehole           |  | THE PARTY OF THE P |  |  |   |                           |
|   |       | The state of the s |       |                           |  |  |  |  |   |                           |
|   | 12-   |  |       |                           | ANGERS CONTRACTOR CONT | on a figure and a second and a  | ACHIEVA PROPRIATA PROPRIAT | Colonia de la colonia de l |   |                           |
|   | 14-   |  |       |                           |  | Washington Company of the Company of | The state of the s |  | COLUMN TO THE |                           |

Drill Date 9/6/02

Drill Method: Direct Push

Total Depth: 10 Depth to Water: 6.40 Reviewed by: EW

Logged by: NG

AEI Consultants 3210 Old Tunnel Road, Sulte B Lafayette, CA 94549 (925) 283-6000 Project No: 5526

Project Name: Cruise America

Log of Borehole: \$B-13

Client

Location:

|          | USC     | s     |  | Sar             | npie i   | Data          |   |  |  |
|----------|---------|-------|--|-----------------|--|---------------|---|--|--|
| Depth    | Symbol  | Label | Subsurface<br>Description  | Sample<br>Label | Туре   | Blow/ft       | Recovery                                | Well Data  | Remarks  |
| Ø-       |         |       | Ground Surface   |                 |  |               |   |  |  |
|          |         | SP    | Sand   |                 |  |               |   |  |  |
| 2-       |         | GP    | Gravely sand   |                 |  |               |   |  |  |
| <b>A</b> |         |       |  |                 | adalam estambares divisionis partir proprieta de la partir |               | *********                               |  | strong hydrocarbon odor  |
| -        |         |       |  | SB-13 5'        | SS   |               | 60                                      |  | PID = 1500 ppm   |
|          |         | ~:    |  |                 |  |               |   |  |  |
| •        |         | CL    | Black gravely clay   |                 |  |               |   |  | saturated  |
|          |         |       | Dank gravery only  | SB-13 7         | SS   | <u> </u>      |   |  | PID = 50 ppm   |
|          |         |       | Acquirement  | 05 107          |  | <u> </u>      |   |  |  |
| 8-       |         |       |  |                 |  |               |   |  |  |
|          |         |       | a granu e canada de la canada de | :               |  |               |   |  |  |
| 10-      | 1550000 |       | End of Borehole  | -               |  |               |   |  |  |
|          | 4       |       |  |                 | -  |               |   |  |  |
|          |         |       |  |                 |  |               |   |  |  |
| 12-      | 1       |       |  |                 |  |               |   |  |  |
|          |         |       |  |                 |  |               |   |  | Ca. Action of the Control of the Con |
|          |         |       |  |                 |  |               |   |  |  |
| 14-      |         |       | ,  |                 |  | on the second |   | The state of the s |  |
|          |         |       |  |                 |  |               | *************************************** |  |  |
|          |         | Links | 1  | 1:              |  |               | 1                                       | 1  | 1  |

Drill Date 9/6/02

Drill Method: Direct Push

Reviewed by: EW

Logged by: NG

Total Depth: 10 Depth to Water: 6.15 AEI Consultants 3210 Old Tunnel Road, Sulte B Lalayette, CA 94549 (925) 283-6000

Sheet: 1 of 1

Project No: 5526

Project Nama: Cruise America

Log of Borehole: SB-14

Cllent:

Location:

| -  | USC    | s     |  | Sar                    | nple (   | Data   |  |  |  |
|--|--------|-------|--|------------------------|--|--|--|--|--|
| Depth  | Symbol | Label | Subsurface<br>Description  | Sample<br>Label        | Type   | Blow#  | Recovery   | Well Data                              | Remarks  |
| 0  |        |       | Ground Surface   |                        |  | MATERIAL TO A  | ***************************************  |  |  |
|  |        | GC    | Gravely sand   |                        |  |  |  |  |  |
| 4  | ) =    |       |  |                        |  |  |  |  | strong hydrocarbon odor  PID = 1500 ppm  |
|  |        |       |  | SB-14 5'               | SS   |  | 70   |  | FID = 1500 bbit  |
|  |        |       |  |                        |  |  |  |  |  |
|  |        |       | Black gravely clay   |                        |  |  | ·  |  | saturated  |
|  |        | CL    |  | SB-14 7'               | SS   |  | 50   | ].                                     | PID = 50 ppm   |
|  | 3-     |       | TO COMPANY AND A STATE OF THE S |                        | A STATE OF THE PARTY OF THE PAR | المراجعة الم |  |  |  |
| And the state of t | 0-     |       | End of Borehole  | - manifestation (1974) |  | ANTONIA CONTRACTOR ANTONIA SECURIO DE CONTRACTOR DE CONTRA | A CONTRACTOR OF THE CONTRACTOR | ************************************** |  |
|  | 2-     |       |  |                        |  |  |  |  | 4 man and a second a second and |
| Ţ  | 4-     |       |  |                        |  |  |  | Appropriate Version                    |  |

Drill Date 9/6/02

Drill Method: Direct Push

Total Depth: 10 Depth to Water: 5.98 Reviewed by: EW

Logged by: NG

AEI Consultants 3210 Old Tunnel Road, Suite B Lafayette, CA 94549 (925) 283-6000

Sheet: 1 of 1

Sheet 1 of 1

Project No: 5526

Project Name: Cruise America

Log of Borehole: SB-15

Cllent:

Location:

|       | USC                                     | S   |  | Sar             | nple l   | Data   |  |  |  |
|-------|---|---|--|-----------------|--|--|--|--|--|
| Depth | Symbol                                  | Label                                     | Subsurface<br>Description  | Sample<br>Label | Туре   | Blow/ft  | Recovery   | Well Data  | Remarks  |
| o:    |   | 2000 W 1000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Ground Surface   |                 |  |  |  |  |  |
| 2-    |   | GC  | Clayey gravel  |                 |  |  |  |  |  |
| 4     |   | CL  | <b>Gravely clay</b> clasts to 6 cm green staining  |                 | designation of the contract of |  |  |  | PID = 40 ppm   |
|       |   |   |  | SB-15 5'        | SS   | ļ  | 100  |  |  |
| 6-    |   |   |  | SB-15 7'        | SS   | Average Averag | 80   | - Constant   | saturated<br>PID = 50 ppm  |
| 8.    |   | CL  | Black gravely silty clay<br>gravels decreasing   |                 | encetachenteterenanteterenanteteren errorrer   |  | AGE RECORD TO THE CONTROL OF THE CON | The state of the s |  |
| 10    | -                                       | ·   | End of Borehole  |                 | Andreas of Assessment of Section (Assessment  |  |  |  |  |
| 12    | was from                                |   | and the state of t |                 |  |  | - Andrewski Principal Control of the |  | The state of the s |
| 14    | *************************************** | Martin Company (Note Super                |  | 1               | A COLUMN TO THE PROPERTY OF TH | - Carlo Carl | entransa de la companya de la compa   | -  |  |

Drill Date 9/6/02

Drill Method: Direct Push

Total Depth: 10 Depth to Water: 5.45 Reviewed by: EW

Logged by: NG

AEI Consultants 3210 Old Tunnel Road, Suite B Lafayette, CA 94549 (925) 283-6000

Sheet 1 of 1

Project No: 5626

Project Name: Cruise America

Log of Borehole: SB-16

Client:

Location:

|       | USC  | s                                     |  | Sau  | nple l  | Data   |   |   |                              |
|-------|--|---------------------------------------|--|--|---|--|---|---|------------------------------|
| Depth | Symbol   | Label                                 | Subsurface<br>Description  | Sample<br>Label  | Туре  | Blow/ft  | Recovery  | Well Data   | Remarks                      |
| 0-    |  | :                                     | Ground Surface   |  |   |  |   |   |                              |
|       |  | GÇ                                    | Clayey gravel  |  |   |  |   |   |                              |
| 2-    |  | CL                                    | <i>Gravely clay</i><br>green staining  | SB-16.5'   | SO S  |  | 90  |   | PID = 80 ppm<br>saturated    |
| 6     |  |                                       | and the state of t |  | d Special Property Company  |  |   |   |                              |
|       |  |                                       |  |  | difet kanasara  |  |   |   | PID = <1 ppm                 |
|       |  |                                       | free characteristic designation and control and contro | SB-169'  | SS  |  | 40  |   | PID = <t ppin<="" td=""></t> |
| 8     | j  | ML                                    | Green and black silt   | Application of the control of the co |   | Proposition of the control of the co | TOTAL |   |                              |
| 10    |  |                                       | End of Burehole  | # <b>*</b>   |   |  |   |   |                              |
|       | -  |                                       |  |  |   |  |   |   |                              |
| 12    | COURTEM SHARM SHAR | , , , , , , , , , , , , , , , , , , , |  |  | ACCORPORATION OF THE PROPERTY |  |   |   |                              |
|       | 1  |                                       |  |  | -   |  |   |   |                              |
| 14    | ·  |                                       |  |  |   | ***************************************  | ann antime (higher Contractors  | Manuscratter of the second of |                              |
|       | 7  |                                       |  |  |   |  |   |   |                              |

Drill Date 9/6/02

Drill Method: Direct Push

Total Depth: 10 Depth to Water: 5.35 Reviewed by: EW

Logged by: NG

AEI Consultants 3210 Old Tunnel Hoad, Suite B Lafayette, CA 94549 (925) 283-6000

Sheet: 1 of 2

Project Name: Cruise America

Log of Borehole: SB-17

Client

Location:

|        | USC    | s     |   | Sar  | nple [     | Data   |  | i   |  |
|--------|--------|-------|---|--|------------|--|--|---|--|
| Depth  | Symbol | Label | Subsurtace<br>Description                         | Sample<br>Label  | Туре       | Blow/ft  | <b>Recovery</b>  | Well Data                                     | Remarks  |
| 0-     |        |       | Ground Surface                                    |  |            |  |  |   |  |
| 2-     |        | GC    | Clayey gravel                                     |  |            | elim Mary elem Mary person e   | hada bayeelinadd delayda y y y y y y y y y y y y y y y y y y   | AAA CARAA AA |  |
|        |        | ,i    |   |  |            |  |  |   | PID = 10 ppm                                       |
| 1 4-   | 1000   |       | Gravely clay                                      | SB-17.5'   | <u> SS</u> | i-Andrewskii   | 80   |   | FID = 10 ppm                                       |
| 6-     |        | CL    | green staining                                    |  |            |  |  |   | saturated moderate hydrocarbon odor                |
| 1 .    |        |       |   | \$8-17.9   | ŠŠ         | <b>101-1711-1717-17</b>  | 70   |   | PID = 50 ppm                                       |
| 8-     |        | OL    | Black silty clay Organic and anthropogenic debris | en parama Ta, la marina paga la marina da paga Parama Andrea |            |  |  |   |  |
| 10-    |        | CL    | Soft Glay   |  |            |  |  |   |  |
| 14-    |        |       | Organic rich                                      |  |            |  |  |   | suiffide odor                                      |
| سريا ا |        |       |   |  |            |  |  | ļ<br>I  |  |
| 16:    |        | sc    | Sandy Clay  | **************************************                       |            | Vicinity of State of  |  |   |  |
| 18:    |        |       |   | editories exceptions   |            | A Control of the Cont |  | TABLE SERVINGERS.                             |  |
| 20     |        | ОН    | Stiff organic clay                                | SB-17 20'  | ss         |  | 100  |   |  |
| 22     |        |       |   | 35-1720  | 33         |  | 160  |   | у выполнять по |
|        |        | CL    |   |  |            |  |  | ŀ   |  |
| 24     |        |       | Brown gravely clay Gravels increase with depth    |  |            |  | VALUE OF THE PROPERTY OF THE P |   |  |

Drill Date 9/6/02

Reviewed by: EW

Drill Method: Dual Cased Direct Push

Logged by: NG

Total Depth: 50

Depth to Water: 5.58, 45.5

Sheet: 2 of 2

Project No: 5526

Project Name: Cruise America

Log of Borehole: SB-17

Client

Location:

|       | USC    | 28    | <u>Tanan ar ing ing ing ing ing ing ing ing ing ing</u> | Sar   | npie i   | Data   |          | Lughantan  |         |
|-------|--------|-------|---|---|--|--|----------|--|---------|
| Depth | Symbol | Label | Subsurface<br>Description                               | Sample<br>Label   | Type   | Blow/ft  | Recovery | Well Data  | Remarks |
| 27-   |        | :     | Brown gravely clay Gravels increase with depth          |   |  |  |          |  |         |
| 29-   |        | sw    | Well graded sand  |   |  |  |          | William Company  |         |
| 31-   |        |       | <b>3</b> .  |   |  |  |          |  |         |
| 33    |        |       | stiffens-less sand<br>rounded clasts 2-3cm <5%          |   |  |  |          |  |         |
| 35-   |        |       |   |   |  | AND THE PROPERTY OF THE PROPER |          |  |         |
| 37-   |        | СН    | Stiff sandy clay<br>plastic                             |   | - Linear Control   |  |          |  |         |
| 39    |        |       |   | SB-17 39  | SS   | The state of the s | 100      | Average Averag | ,       |
| 41-   |        |       | softer, more fine sand and silt                         |   |  |  |          |  |         |
| 43-   |        |       |   | - Contract of the Contract of | A CONTRACTOR OF THE PARTY OF TH |  |          |  | wet     |
| 47    | -      | CL    | Sandy clay<br>soft, cohesive                            |   | Andrew State (State (St |  | · ·      |  |         |
| 49    |        | sw    | Well-graded gravely sand                                |   |  | A COLUMN TO A COLU |          |  |         |

Drill Date 9/6/02

Reviewed by: EW

Drill Method: Dual Cased Direct Push

Logged by: NG

Total Depth: 50

Depth to Water: 5.58, 45.5

Project Location: 796 66th Ave., Oakland, CA

Project Number: 278361

# **Log of Boring SB-18**

Sheet 1 of 1

| Date(s)<br>Drilled July 1, 2008                  | Logged By Robert F. Flory     | Checked By Leah Levine-Goldberg           |
|--|-------------------------------|---|
| Drilling Direct Push                             | Drill Bit<br>Size/Type 2 inch | Total Depth of Borehole 10 feet bgs       |
| Drill Rig<br>Type GeoProbe 5410                  | Drilling<br>Contractor ECA    | Approximate Surface Elevation 11 feet MSL |
| Groundwater Level and Date Measured 4.1 feet ATD | Sampling<br>Method(s) Tube    | Permit# <b>W2008-0360</b>                 |
| Borehole<br>Backfill Cement Slurry               | Location                      |   |

|             |  |   | ·····       |   |                     | ·····  |
|-------------|--|---|-------------|---|---------------------|--|
| Depth, feet | Sample iype<br>Sample<br>Number        | USCS Symbol                             | Graphic Log | MATERIAL DESCRIPTION  | PID Reading,<br>ppm | REMARKS AND OTHER<br>TESTS   |
| 0           |  | GC-CL                                   | 1 C 1 C     | Crushed Rock, gray 6N/, underlain by geotextile sheet   |                     |  |
|             |  |   | 0-00-00-00  | Clayey Gravel- Gravelly Clay, dark yellowish brown - dark grayish brown 10YR 4/4 - 4/2, moderately firm, slightly moist (FILL)      |                     |  |
|             | SB-18-3                                | 5 CL                                    |             | Gravelly Clay, very dark gray 10YR 3/1, moderately firm, moist, gasoline odor (FILL) (ATD) ——                                       | 95                  |  |
| 5           | SB-18-6                                |   |             |   |                     |  |
|             | SB-18-                                 |   |             | Clayey Gravel- Gravelly Clay, grayish green 5G 4/2 - dark greenish gray 5GY 4/1, wood fragments, moderately firm, very moist (FiLL) |                     |  |
|             |  | Unuped                                  |             | Woody Peat, black 2.5/, firm  Gravelly Clay, very dark greenish gray 5GY 3/1, moderately firm, - moderately soft, wet (FILL)        |                     |  |
| 10          |  |   |             | Silty Clay, very dark greenish gray 5GY 3/1 - black N 2.5/, moderately soft, wet (FILL)   |                     | The state of the s |
| _           |  | *************************************** |             | Bottom of Boring at 10 feet bgs   |                     |  |
| wfr.        |  |   |             |   |                     |  |
| 3           |  |   |             | -<br>-  |                     |  |
| 15          |  |   |             |   |                     |  |
| -           |  |   |             |   |                     |  |
| -           |  |   |             |   |                     |  |
| 20          | ************************************** |   |             |   |                     |  |
| <b></b>     |  |   |             | AFI   |                     | Figure   |

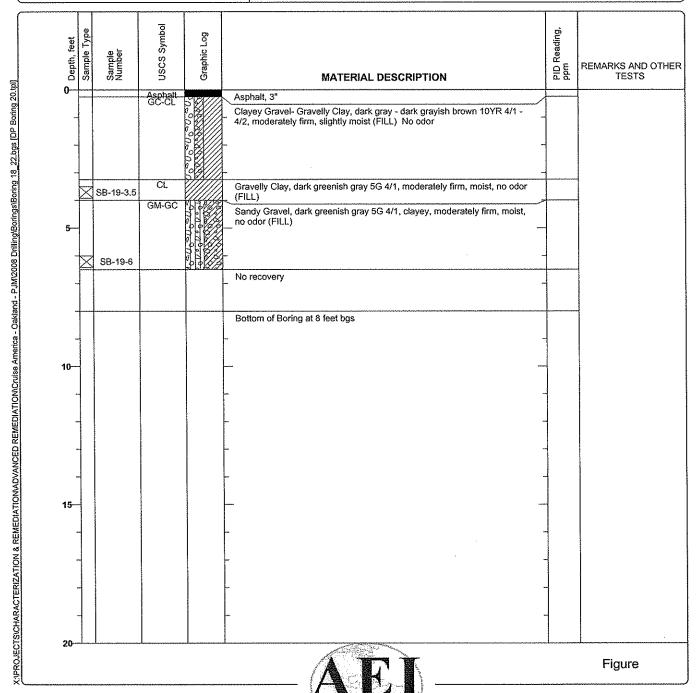
Project Location: 796 66th Ave., Oakland, CA

Project Number: 278361

### **Log of Boring SB-19**

Sheet 1 of 1

| Date(s)<br>Drilled July 1, 2008                         | Logged By Robert F. Flory     | Checked By Leah Levine-Goldberg           |
|---|-------------------------------|---|
| Drilling Direct Push                                    | Drill Bit<br>Size/Type 2 inch | Total Depth of Borehole 8 feet bgs        |
| Drill Rig<br>Type GeoProbe 5410                         | Drilling<br>Contractor ECA    | Approximate Surface Elevation 11 feet MSL |
| Groundwater Level and Date Measured Not Encountered ATD | Sampling Tube Method(s)       | Permit# <b>W2008-0360</b>                 |
| Borehole Backfill Cement Slurry                         | Location                      |   |



Project Location: 796 66th Ave., Oakland, CA

Project Number: 278361

# Log of Boring SB-20

Sheet 1 of 1

| Date(s)<br>Drilled July 1, 2008                         | Logged By Robert F. Flory         | Checked By Leah Levine-Goldberg           |
|---|-----------------------------------|---|
| Drilling<br>Method Direct Push                          | Drill Bit<br>Size/Type 2 inch     | Total Depth of Borehole 8 feet bgs        |
| Drill Rig<br>Type GeoProbe 5410                         | Drilling<br>Contractor ECA        | Approximate Surface Elevation 11 feet MSL |
| Groundwater Level and Date Measured Not Encountered ATD | Sampling<br>Method(s) <b>Tube</b> | Permit # <b>W2008-0360</b>                |
| Borehole Cement Slurry                                  | Location                          |   |

| O Depth, feet   | Sample Type | Sample<br>Number   | USCS Symbol  | Graphic Log   | MATERIAL DESCRIPTION  | PID Reading,<br>ppm | REMARKS AND OTHER<br>TESTS             |
|---|-------------|--|--|---|---|---------------------|--|
| <b>U</b>  |             |  | Asphalt<br>GC-CL   | 5 Ø///  | Asphalt, 3"   |                     |  |
| O TO THE WAY I ENTER HOW WENT TO THE WAY I ENTER HOW THE WAY I TO THE |             |  |  | 000000000000000000000000000000000000000   | Clayey Gravel- Gravelly Clay, dark gray - dark grayish brown 10YR 4/1 - 4/2, moderately firm, slightly moist (FILL) No odor |                     |  |
| n   |             | SB-20-3.5  | CL   |   | Gravelly Clay, brown 10YR 4/3, moderately firm, moist, no odor (FILL)   |                     | о-с                                    |
| 5   |             |  | GC-CL  | 00-00   | Sandy Gravelly Clay, black 10YR 2/1, abundant wood fragments, firm, moist, no odor  | -                   |  |
|   | X           | SB-20-5.5  |  | 000000  |   | <u>.</u>            |  |
|   |             |  |  | COY 68////  | No recovery   |                     | W                                      |
| - Jana  | ļ           |  |  |   | Bottom of Boring at 8 feet bgs  |                     |  |
|   |             |  |  |   |   |                     |  |
| 10-   |             |  |  |   |   | _                   |  |
|   | -           |  |  |   | -   |                     |  |
|   |             |  |  |   |   |                     |  |
| 15-   |             |  |  |   |   | -                   |  |
|   |             |  |  |   | -   |                     |  |
| Š<br>Š  |             |  |  |   |   |                     | ************************************** |
| RACTERIZ  | -           |  |  | distribution constitution of the constitution |   |                     |  |
| SIGHA   |             | Personal designation of the second se |  |   |   |                     |  |
| 20-   |             |  | and the second |   | ARIN_   |                     | Figure                                 |

CONSULTANTS EMPONIQUES ON EXCHERNIC

Project Location: 796 66th Ave., Oakland, CA

Project Number: 278361

# Log of Boring SB-22

Sheet 1 of 2

| Date(s)<br>Drilled July 1, 2008                         | Logged By Robert F. Flory         | Checked By Leah Levine-Goldberg           |
|---|-----------------------------------|---|
| Drilling Method Direct Push                             | Drill Bit<br>Size/Type 2 inch     | Total Depth of Borehole 28 feet bgs       |
| Drill Rig<br>Type GeoProbe 5410                         | Drilling<br>Contractor <b>ECA</b> | Approximate Surface Elevation 11 feet MSL |
| Groundwater Level and Date Measured Not Encountered ATD | Sampling<br>Method(s) Tube        | Permit# <b>W2008-0360</b>                 |
| Borehole<br>Backfill Cement Slurry                      | Location                          |   |

| Depth, feet    | Sample Type         | Sample<br>Number | USCS Symbol                           | Graphic Log     | MATERIAL DESCRIPTION  | PID Reading,<br>ppm | REMARKS AND OTHE<br>TESTS |
|----------------|---------------------|------------------|---------------------------------------|-----------------|---|---------------------|---------------------------|
| 0              |                     |                  | Asphalt<br>GC-CL                      | \$ <i>\\\\\</i> | Asphalt, 3"   | <del></del>         |                           |
| -              |                     |                  |                                       |                 | Clayey Gravel- Gravelly Clay, brown - yellowish btrown 10YR 4/3 - 5/4, moderately firm, slightly moist (FILL) |                     |                           |
| -              |                     |                  | CL                                    |                 | Gravelly Clay, olive 5Y 5/3 - 5/4, moderately firm, slightly moist (FILL)                                     |                     |                           |
| . •            | $\overline{\times}$ | SB-22-4          | CL                                    |                 | Peat, Black   |                     | ]                         |
| <del>5</del> - |                     |                  |                                       |                 | Sandy Clay, dark olive gray - olive gray 5Y 3/2 - 5/2 - grayish brown 10YR                                    | -                   |                           |
| -<br>10        |                     | SB-22-9.5        | SC-CL                                 |                 | Clayey Sand - Sandy Clay, very dark greenish gray 5G 3/1, soft, plastic, wet                                  |                     |                           |
|                |                     |                  | sc                                    |                 | Very Clayey Sand, dark greenish gray - very dark greenish gray 10GY 4/1<br>- 3/1, soft, plastic, wet          |                     |                           |
|                |                     |                  | 66.6                                  | 73789777        | Peat, black, woody, interbedded with clay partings  | J                   |                           |
| 15             |                     |                  | SC-CL                                 |                 | Very Clayey Sand - Sandy Clay, very dark greenish gray 10GY 3/1, soft, plastic, wet                           | _                   | -                         |
|                | $\mathbb{Z}$        | BS-22-15.5       | SEPCL                                 |                 | Oyster Sand, light gray 10YR 7/1, 1/4" streak, clayey, soft   | 4                   |                           |
|                |                     |                  | CL                                    |                 | Very Clayey Sand - Sandy Clay, very dark greenish gray 10GY 3/1, soft, plastic, wet                           | 1                   | -                         |
|                |                     |                  | 65                                    |                 | Sandy Clay, very dark greenish gray 10GY 3/1, soft, plastic, wet  | <del>/</del>        | =                         |
|                | -                   | rust town with   | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |                 | Clayey Gravel streak Sandy Clay, very dark greenish gray 10GY 3/1, soft, plastic, wet                         | /                   |                           |
|                |                     |                  | CL                                    |                 | Silty Clay, grayish green 5G 5/2 - 4/2, firm, moist   |                     | -                         |
| 20-            |                     |                  | CL                                    |                 | Silty Clay, grayish green 5G 5/2 - 4/2, firm, moist   |                     | Figure                    |

Project Location: 796 66th Ave., Oakland, CA

Project Number: 278361

# **Log of Boring SB-22**

Sheet 2 of 2

| Depth, feet | Sample Type  | Sample<br>Number | USCS Symbol | Graphic Log  | MATERIAL DESCRIPTION   | PID Reading,<br>ppm                     | REMARKS AND OTHE<br>TESTS |
|-------------|--|------------------|-------------|--|--|---|---------------------------|
| 20          |  |                  | CL          |  | Silty Clay, graylsh green 5G 5/2 - 4/2, firm, moist (cont.)  | *************************************** | 444-0-444                 |
|             |  |                  | CL          |  | Silty Clay, grayish green 5G 5/2 - 4/2, becoming sandy, firm, moist  | -                                       |                           |
|             |  |                  | ML          |  | Sandy Silt, olive 5Y 5/6 - grenish gray 5G 5/1 mottled, firm, moist  |   |                           |
|             |  | 00.00.00.5       | GW          |  | Sandy Gravel - Gravelly Sand, dark brown - very dark brown 10YR 3/3 - 3/2, slightly clayey, firm - hard, wet                           |   |                           |
| -           |  | SB-22-23.5       | -§₩         | 2.53.25.52   | Gravelly Sand, yellowish brown 10YR 5/6, firm - hard, wet  | #                                       |                           |
| 25          |  |                  | 0.1         |  | Sand, very dark gray - very dark grayish brown 10YR 3/1 - 3/1, fine grained, poorly graded, firm, wet                                  |   |                           |
| -           |  |                  | SP          |  | Sand, very dark gray - very dark grayish brown 10YR 3/1 - 3/2, clayey, fine grained, poorly graded, firm, wet clay increasing downward |   |                           |
|             | $\boxtimes$  | SB-22-27.5       | CL          |  | Clay, very dark grayish brown 10YR 3/2, firm, wet  |   |                           |
|             |  |                  |             |  | slightly sandy at top  Bottom of Boring at 28 feet bgs   | 1                                       | overene me                |
| 35          | The second secon |                  |             |  |  | , , , , , , , , , , , , , , , , , , ,   |                           |
|             |  |                  |             | or the second se |  |   |                           |

CONSULTANTS EMPONDEMASCIAL ENCAPETAGE

Project Location: 796 66th Ave., Oakland, CA

Project Number: 278361

# **Log of Boring SB-21**

Sheet 1 of 1

| Date(s)<br>Drilled July 1, 2008                  | Logged By Robert F. Flory         | Checked By Leah Levine-Goldberg           |
|--|-----------------------------------|---|
| Drilling<br>Method Direct Push                   | Drill Bit<br>Size/Type 2 inch     | Total Depth of Borehole 11 feet bgs       |
| Drill Rig<br>Type GeoProbe 5410                  | Drilling<br>Contractor ECA        | Approximate Surface Elevation 11 feet MSL |
| Groundwater Level and Date Measured 6.3 feet ATD | Sampling<br>Method(s) <b>Tube</b> | Permit# <b>W2008-0360</b>                 |
| Borehole Cement Slurry                           | Location                          |   |

|             |             |  |             | JY             |   |                     | <del>*************************************</del>  |
|-------------|-------------|--|-------------|----------------|---|---------------------|---|
| Depth, feet | Sample Type | Sample<br>Number   | USCS Symbol | Graphic Log    | MATERIAL DESCRIPTION  | PID Reading,<br>ppm | REMARKS AND OTHEI   |
| Ų           |             |  | Asphalt GC  | אל הוא הוא הוא | Asphalt, 3"   |                     |   |
|             |             |  | GC          |                | Clayey Gravel, brown - dark brown 10YR 4/4-4/3, moderately firm, slightly moist (FILL) No odor                      |                     |   |
| 10—<br>15—  | X           | SB-21-3.5  | GC          |                | Clayey Gravel, very dark greenish gray - dark greenish gray 5G 3/1-4/1, moderately firm, moist, ? trace odor (FiLL) |                     |   |
| 5           | X           | SB-21-6  | GC-CL       |                | Sandy Gravel - Gravelly Clay, black N 2.5/, sandy, firm, moist - wet, slight oily odor  (ATD)                       |                     |   |
| Ì           | H           |  | GC          | 74/6           | Clayey Gravel, black N 2.5/, sandy, firm, wet, slight oily odor   | <del> </del>        | 1   |
|             | X           | SB-21-7.5  | CL          |                | Very Clayey Sand, dark greenish gray - grayish green 10GY 4/1 - 5G 4/2, soft, wet                                   |                     |   |
| 10-         |             |  |             |                | No recovery   |                     | Boring caved to 9.7', water at 6.3'   |
|             |             |  |             |                | Bottom of Boring at 11 feet bgs   |                     | -   |
| -           |             |  |             |                |   |                     | Table de la constant |
|             |             |  |             |                | -   |                     |   |
| 15          | -           |  |             |                |   | -                   |   |
|             | _           |  |             | 1              |   |                     |   |
|             |             |  |             |                | -   |                     |   |
|             |             | SAMMAN SA |             |                |   |                     |   |
| 20-         | 1           | I  |             |                |   | 1                   | Figure  |

CONSULTANTS EMFORMENTAL SCALE DESMERTES

Sheet 1 of 1

Project Name: Cruise America

Log of Borehole: MW-1

Client

Location:

|            | USC    | S     |   | Sar             | nple l                           | Data   |          |           |  |  |
|------------|--------|-------|---|-----------------|----------------------------------|--------|----------|-----------|--|--|
| Depth      | Symbol | Label | Subsurface<br>Description   | Sample<br>Label | Type                             | Blow/# | Recovery | Well Data | Remarks  |  |
| 10-<br>12- |        | GW    | Saturated  Sand and baserock backfill  Dark grey soft sitty clay  End of Borehole | MW-1 4'         | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 5      | 25       |           | Neat cement grout  Bentonite PID = <1.0 ppm  PID = 3 ppm  10' 0.020 2"screen from 4' to 14' #2/16 Monterey Sand  PID = 4 ppm |  |
|            | -      |       |   |                 |                                  |        |          |           |  |  |

Drill Date 9/18/02

Reviewed by: EW

Drill Method: HSA

Logged by: NG

Total Depth: 14

AEI Consultants 3210 Old Tunnel Road, Suite B Lafayette, CA 94549 (925) 283-6000

Depth to Water: 5.4

Sheet: 1 of 1

Project No: 5526

Project Name: Cruise America

Log of Borehole: MW-2

Client:

Location:

|       | USC    | S                                      | The state of the s | Sar  | nple [                                | )ata  |             |           |  |
|-------|--------|--|--|--|---------------------------------------|---|-------------|-----------|--|
| Depth | Symbol | Label                                  | Subsurface<br>Description  | Sample<br>Label  | Туре                                  | Blow/ft   | Recovery    | Well Data | Remarks  |
| 0-    |        | ************************************** | Ground Surface   |  |                                       |   |             | 4 8       |  |
| 2     |        |  |  |  |                                       |   |             |           | Neat cement grout  |
| 4-    |        |  |  | MW-2 4'  | SS                                    | 8   | 50          |           | PID = <1.0 ppm   |
| 6     |        |  | Brown gravely clay   |  |                                       |   |             |           | in the second se |
|       |        | GC                                     |  |  | , , , , , , , , , , , , , , , , , , , |   | وللشنشندنجة |           |  |
| 8     |        |  |  |  |                                       | al de la della litter de la della litter de la della litter della litter della litter della litter della litter |             |           | PID = <1.0 ppm   |
| 10    |        |  | shell fragments  | The state of the s | SS                                    | 2   | 100         |           |  |
| 12    | -      | CL                                     | Soft grey sifty clay   |  |                                       | :   |             |           | 10' 0.020 2"screen from 4' to 14'<br>#2/16 Monterey Sand   |
| 14    |        |  | some sand and gravel beds  |  | ss                                    | 2   | 100         |           | Sulfur odor PID = <1.0 ppm   |
| 14    |        |  | End of Borehole  |  |                                       |   |             |           |  |

Drill Date 9/18/02

Drill Method: HSA

Total Depth: 14 Depth to Water: 13.0 Reviewed by: EW

Logged by: NG

Sheet: 1 of 1

Project No: 5526

Project Name: Cruise America

Log of Borehole: MW-3

Client

Location:

|       | USC    | 25                                      | enemus indica serial anno a serial comina como como como del del como como como como de como como de como como | Sar  | nple l   | Dala  |          |           |  |
|-------|--------|---|--|--|--|---|----------|-----------|--|
| Depth | Di Bar | Label                                   | Subsurfaça<br>Description  | Sample<br>Label  | Type   | Blow/ft   | Recovery | Well Date | Remarks  |
| 0-    | ,,,,,  | *************************************** | Ground Surface   |  |  |   |          |           | A September 1997 Sept |
| 2-    |        |   |  |  |  |   |          |           | Neat cement grout  Bentonite   |
| 4-    |        |   | 20 % gravel  | MW-24'   | SS   | 8   | 50       |           | PID = 43 ppm   |
| 6     |        |   | Chaffe his order with a release  |  |  |   |          |           |  |
| 8     |        | CL.                                     | Soft black sitty clay<br>cohesive<br>some gravel beds  | And an analysis of the state of | A LONG A BANKA A LONG A | Statistical designation and account of the statistics of the state of |          |           | PID = 89 ppm   |
| 10-   |        |   |  |  | 55   | 2   | 100      |           |  |
| 12-   |        |   | 1.   | : -  |  |   |          |           | 10' 0.020 2'screen from 4' to 14'<br>#2/16 Monterey Sand   |
| 14.   |        |   |  |  | SS   | 2   | 100      |           | Sulfur odor<br>PID = 103 ppm   |
|       |        |   | End of Borehole  |  |  |   |          |           |  |

Drill Date 9/18/02

Drill Method: HSA

Total Depth: 14 Depth to Water: 13.05 Reviewed by: EW

Logged by: NG

Log of Borehole: MW-4

Project Name: Cruise America

Client:

Location:

| ſ | uses  |          |       | versus de la constant | Şar  | nple   | Data   |  |           |  |
|---|-------|----------|-------|--|--|--|--|--|-----------|--|
|   | Depth | 5 Amps   | Label | Subsurface<br>Description  | Sample   | Type   | Bitonum  | Recovery   | Well Data | Remarks  |
| Ì | 0-    | 2013 522 |       | Ground Surface   | **************************************   |  |  |  | (3 B      |  |
|   | 2     |          |       |  |  |  | The state of the s |  |           | Neat cement grout  Bentonite                             |
|   | 4-1   |          | GW    | Brown sandy gravel   | MM-4 4.  | 38   | 10   | 50   |           | PID = 2 ppm  |
|   | 8     |          |       |  |  |  |  | The state of the s |           |  |
|   | 8-    |          |       |  |  | Charles and the control of the contr | No. of the last of | ANCIE ACTION COMMANDE REPORTED TO THE PROPERTY OF THE PROPERTY |           | PID = 2 ppm  |
|   | 10-   |          | CL    | Dark grey silty clay   |  | ARRENTATION OF THE PROPERTY OF | ниционалический поментицион п  | The state of the s |           |  |
|   | 12-   |          |       | Rich in organic matter Saturated   |  | WWW.WWW.Calabalaalaalaalaalaalaan  | provide a laboration and a second a second and a second and a second and a second and a second a | and the state of t |           | 10' 0.020 2"screen from 4' to 14'<br>#2/16 Monterey Sand |
|   | 14~   |          | 80    | Clayer send<br>gravels to 1.5*<br>End of Borehole  | distribution of the control of the c | Personal contraction   | Vanish and the state of the sta |  |           | Sulfur odor<br>PID = <1 ppm                              |

Drill Date 9/18/02

Drill Method: HSA

Total Depth: 14 Depth to Water: 5.7 Reviewed by: EW

Logged by: NG

AEI Consultants 3210 Old Tunnel Road, Sulte B Lafayette, CA 94549 (925) 283-8000

Sheet: 1 of 1

Sheet 1 of 1

Project Name: Cruise America

Log of Borehole: MW-5

Client

Location:

|       | USGS           |       |  | Sa   | npla l   | Duia                                  |  |           |  |
|-------|----------------|-------|--|--|--|---------------------------------------|--|-----------|--|
| Depth | DE LEGIS       | Label | Subscription<br>Description                                    | Sample   | Type   | Blowfi                                | Newswald   | Well Date | Remarks                                      |
| 0-    | A. 20 (20 (27) | ·     | Ground Surface   |  |  |                                       |  | 4         | **************************************       |
|       |                | sc    |  | - Anna Amarana in  | ALL THE  |                                       |  |           | Neat cement grout  Bentonite  PID = 2 ppm    |
| 7     |                |       | Light grey sandy clay Contains gravel and anthropogenic debris | NIVV-4 4'  | SS   | 10                                    | 50   |           |  |
| 8-    |                |       |  |  | and a second department of the second se | · · · · · · · · · · · · · · · · · · · | The state of the s |           |  |
| 10-   |                | CL    | The same year day has been seen seen seen seen seen seen see   |  | ######################################   |                                       | A CANADA CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CO   |           | PID = 2 ppm                                  |
| 42    |                |       | Dark grey silty clay Rich in organic matter                    |  |  |                                       |  |           | 10' 0.020 2"screen from 4' to 14'            |
| 14-   |                |       |  | in the supplication of the |  |                                       | Annual Control of the |           | #2/16 Monterey Sand Sulfur odor PID = <1 ppm |
| WWW.  | -              |       | End of Borehole  | 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -  | ***************************************  |                                       |  |           |  |

Drill Date 9/18/02

Reviewed by: EW

1

Drill Method: HSA
Total Depth: 14

Logged by: NG

AEI Consultants 3210 Old Tunnel Road, Suite B Lafayette, CA 94549 (925) 283-6000

Depth to Water: 6.2