April 30, 2014

Ms. Karel Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject: **Perjury Statement and Report Transmittal**
1620-1640 Park Street (Parcel B)
Alameda, California 94501
AEI Project No. 298931
ACEH RO#0000008

Dear Ms. Detterman:

I declare under penalty of perjury, that the information and/or recommendations contained in the attached report for the above-referenced site are true and correct to the best of my knowledge.

If you have any questions or need additional information, please do not hesitate to call me or Mr. Peter McIntyre at AEI Consultants, (925) 746-6004.

Sincerely,

John Buestad
President

JB/pm

Attachment: AEI Consultants, *Conceptual Site Model – April 2014*

cc: Mr. Peter McIntyre, AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597

April 30, 2014

Conceptual Site Model Update
April 2014

Property Identification:
1620-1640 Park Street – Parcel B
Alameda, California

AEI Project No. 298931
ACEH Fuel Leak Case No. RO0000008

Prepared for:
Foley Street Investments
Attn: Mr. John Buestad
2533 Clement Avenue
Alameda, CA 94501

Prepared by:
AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597
(925) 746-6000

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Low Threat Closure Policy Checklist
Updated Conceptual Model – April 2014

FIGURES

TABLES

APPENDICIES

AEI Consultants
Environmental & Engineering Services
2500 Camino Diablo, Walnut Creek, CA 94597
Tel: 925.746.6000 Fax: 925.746.6099

April 30, 2014

Alameda County Environmental Health Department
Attn: Ms. Karel Detterman
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Subject: **Low Threat UST Case Closure Policy Evaluation**
1630 Park Street, Parcel B
Alameda, California
AEI Project No. 298931
ACEH Fuel Leak Case No. RO0000008

Dear Ms. Detterman,

The following Low Threat UST Case Closure Policy Evaluation has been prepared and reviewed by AEI. Based on the review performed, the site appears to meet the Low Threat UST Case Closure Policy guidelines.

Please contact me at (925) 746-6028 if you have any questions or need any additional information.

Sincerely,
AEI Consultants

Jeremy Smith
Senior Project Manager

Peter McIntyre, PG
Executive Vice President
Principal Geologist

REGISTERED GEOLOGIST
PETER J. MCINTYRE
Exp. 5/31/14
No. 7702
STATE OF CALIFORNIA

LOW THREAT CLOSURE POLICY - GENERAL CRITERIA A

General Criteria a: **Is the Unauthorized Release Located within the Service Area of a Public Water System?**	☑ Y	☐ N

LTCP Statement: "This policy is protective of existing water supply wells. New water supply wells are unlikely to be installed in the shallow groundwater near former UST release sites. However, it is difficult to predict, on a statewide basis, where new wells will be installed, particularly in rural areas that are undergoing new development. This policy is limited to areas with available public water systems to reduce the likelihood that new wells in developing areas will be inadvertently impacted by residual petroleum in groundwater. Case closure outside of areas with a public water system should be evaluated based upon the fundamental principles in this policy and a site specific evaluation of developing water supplies in the area. For purposes of this policy, a public water system is a system for the provision of water for human consumption through pipes or other constructed conveyances that has 15 or more service connections or regularly serves at least 25 individuals daily at least 60 days out of the year."

If the unauthorized release is located within the service area of a public water supply system, then

Name of public water system agency?

East Bay Municipal Utility District	☑ Y
Zone 7 Water Agency	☐ Y
City of Hayward Water	☐ Y
Alameda County Water District	☐ Y
Other:	☐ Y

Are there existing water supply wells or other sources of water in the vicinity of the site? ***Use General Criteria e – CSM Well Survey sheet to support answer*** *Note: If yes, the site must still satisfy the groundwater media specific criteria for distance from the contaminant plume boundary to existing wells*	☐ Y	☑ N	☐ NE

If the unauthorized release is located outside the service area of a public water supply system, then Are there additional characteristics to consider that might result in a low-threat designation?	☐ **Y**	☐ **N**	☐ **NE**	☑ **NA**
Has a site-specific evaluation of developing water supplies in the area been conducted?	☐ Y	☐ N	☐ NE	☑ NA
Is impacted groundwater shallower than the sanitary seal requirement for supply wells in the applicable county? Applicable County Sanitary Seal Requirements:	☐ Y	☐ N	☐ NE	☑ NA
Are impacted perched water zones not a viable potential water supply?	☐ Y	☐ N	☐ NE	☑ NA
Does high salinity or low yield negate the impacted groundwater from drinking water beneficial use per State Water Board Resolution 1988-0063, or de-designated areas of the applicable Basin Plans?	☐ Y	☐ N	☐ NE	☑ NA
Will Water Quality Objectives (WQOs) in the groundwater plume be attained through natural attenuation within a reasonable time, prior to the expected need for use of any affected groundwater?	☐ Y	☐ N	☐ NE	☑ NA

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

General Criteria a: Case Notes

Case File Reference Documents:

AEI's Corrective Action Plan dated 2/3/12; AEI's Subsurface Investigation & Well Installation Report dated 3/3012

Attachments:

Figure 9; Well Search Location Map (Alameda County); DWR and Alameda County Well Tables

Case Notes:

In January 2012, a 2,000-foot radius well search was requested and received from the Alameda County Department of Public Works (ACDPW) and the Department of Water Resources (DWR). The results of the well search were reviewed and wells which appeared to be associated with monitoring or remediation at other sites or soil borings were excluded from the review.

According to the results of the DWR well search, two (2) wells are located within 2,000 feet of the site. One well was located approximately 1,100 feet to the southeast (upgradient) and one well was located approximately 2,000 feet to the northwest (downgradient). Both wells were reportedly used for irrigation and installed to a depth of less than 30 feet bgs. Based on the 2008 groundwater sampling from the soil borings and cumulative groundwater monitoring data, it appears that the length of the plume at the site is no more than approximately 160 feet in length. None of the wells noted in this well search are located within the expected plume length for this site. As such, none of the listed wells are expected to be impacted by the hydrocarbons at the site - See attached Table.

According to the results of the ACDPW well search, ten (10) wells are located within 2,000 feet of the site. The nearest well was located approximately 1,000 feet to the west (cross-gradient). Each of the remaining wells were located at a distance further than 1,000 feet and none of the wells were located in the immediate downgradient direction (nowrthwest). None of the wells noted in this well search are located within the expected plume length for this site. As such, none of the listed wells are expected to be impacted by the hydrocarbons at the site - See attached Figure and Table.

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

LOW THREAT CLOSURE POLICY - GENERAL CRITERIA B

General Criteria b: **Does the Unauthorized Release Consist only of Petroleum?**	☐ YES	☒ NO	☐ NE

LTCP Statement: "For purposes of this policy, petroleum is defined as crude oil, or any fraction thereof, which is liquid at standard conditions and temperature and pressure, which means 60 degrees Fahrenheit and 14.7 pounds per square inch absolute including the following substances: motor fuels, jet fuels, distillate fuel oils, residual fuel oils, lubricants, petroleum solvents and used oils, including any additives and blending agents such as oxygenates contained in the formulation of the substances."

Have adequate site investigation activities been conducted to evaluate unauthorized releases of potential chemicals of concern (PCOCs) and chemicals of concern (COCs) from on-site sources due to historical site activities and chemical usage?	☒ Y	☐ N	☐ NE	☐ NA
Have areas of concern been identified based on historical site activities and chemical usage?	☒ Y	☐ N	☐ NE	☐ NA
Have unauthorized releases from underground storage tanks been identified?	☒ Y	☐ N	☐ NE	☐ NA
Have unauthorized releases from above ground storage tanks been identified?	☐ Y	☒ N	☐ NE	☐ NA
Have unauthorized releases from site infrastructure (i.e., sumps, drains, sanitary sewer, etc) been identified?	☐ Y	☒ N	☐ NE	☐ NA
Have unauthorized releases from surface spills at dispenser islands, tank fill ports, etc. been identified?	☐ Y	☒ N	☐ NE	☐ NA
Have unauthorized releases from other on-site sources been identified?	☒ Y	☐ N	☐ NE	☐ NA
Has the site been impacted by off-site sources?	☐ Y	☒ N	☐ NE	☐ NA
Are detected COCs consistent with reported site use?	☒ Y	☐ N	☐ NE	☐ NA
If detected COCs are not consistent with reported site use, then are there other regulatory cases in the vicinity of the site? Identify regulatory case number(s):	☐ Y	☐ N	☐ NE	☒ NA
If there are not other regulatory cases in the vicinity of the site, then has an investigation of other potential sources and contaminant migration pathways been conducted? ***Use General Criteria e – Conceptual Site Model (Off-site sources) sheets to support answer***	☐ Y	☐ N	☐ NE	☒ NA
Has site contamination in all affected media been fully characterized? ***Use page b-2 and General Criteria e – Conceptual Site Model COCs and PCOCs sheets to identify site contaminants***	☒ Y	☐ N	☐ NE	☐ NA
Soil?	☒ Y	☐ N	☐ NE	☐ NA
Soil Gas?	☒ Y	☐ N	☐ NE	☐ NA
Groundwater?	☒ Y	☐ N	☐ NE	☐ NA
Surface Water?	☐ Y	☐ N	☐ NE	☒ NA
Has a data quality review verified the validity of historic analytical data? ***Use General Criteria e – Conceptual Site Model Analytical Data Quality Review sheets to support answers***	☒ Y	☐ N	☐ NE	☐ NA
Have appropriate protocols been followed for obtaining representative samples?	☒ Y	☐ N	☐ NE	☐ NA
Are the analytical methods currently being used consistent with the recommended "best practices" in the CA LUFT Manual?	☒ Y	☐ N	☐ NE	☐ NA
Have appropriate method detection limits been used (i.e., less than the LTCP media specific criteria for groundwater, vapor intrusion to indoor air, and direct contact and outdoor air exposure, and/or current environmental screening levels as appropriate?	☐ Y	☒ N	☐ NE	☐ NA

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

General Criteria b: Case Notes

Case File Reference Documents:

Attachments:

Case Notes:

Other onsite sources include hydraulic hoist which have been removed from the site (see criteria C). During a data quality review for the site, it was determined that the appropriate laboratory methods and reporting limits have been used with the exception of TPHmo in which the detection limit for groundwater samples in historic sampling has been 250 ug/L. This exceeds the current ESL of 100 ug/L.

During recent (2013) sampling activities, it was discovered that chlorinated volatile organic compounds (CVOCs), specifically PCE and TCE, are present at the site. Concentrations of CVOCs have been relatively low and are not expected to prohibit case closure under low threat closure policy guidelines. Soil sampling activities do not indicate that a significant source in the soil remains, soil vapor sampling has not indicated that CVOCs are present above the respective ESL, and although groundwater has contained PCE and TCE above the drinking water ESL, the relatively low concentrations have not exceeded the aquatic receptor ESL.

LOW THREAT CLOSURE POLICY – GENERAL CRITERIA B

Chemicals of Concern (COCs - detected) and Potential Chemicals of Concern (PCOCs – i.e., not detected but used in site operations) in Soil, Groundwater, Soil Gas, and/or Surface Water[1]

COC/PCOC				
Gasoline[2]	▪ **Y**	☐ **N**	☐ **NE**	☐ **NA**
Fuel Oils[3]	☐ **Y**	▪ **N**	☐ **NE**	☐ **NA**
Diesel	☐ Y	▪ N	☐ NE	☐ NA
Stoddard Solvent	☐ Y	▪ N	☐ NE	☐ NA
Jet Fuels	☐ Y	▪ N	☐ NE	☐ NA
Kerosene	☐ Y	▪ N	☐ NE	☐ NA
Home Heating Fuel	☐ Y	▪ N	☐ NE	☐ NA
Bunker Fuel	☐ Y	▪ N	☐ NE	☐ NA
Others	☐ Y	▪ N	☐ NE	☐ NA
Oils	▪ **Y**	☐ **N**	☐ **NE**	☐ **NA**
Waste Oil[4]	▪ Y	☐ N	☐ NE	☐ NA
Hydraulic Oil	▪ Y	☐ N	☐ NE	☐ NA
Lubricating Oil	☐ Y	▪ N	☐ NE	☐ NA
Oil and Grease	☐ Y	▪ N	☐ NE	☐ NA
Motor Oil	☐ Y	▪ N	☐ NE	☐ NA
Others	☐ Y	▪ N	☐ NE	☐ NA
Aromatics	▪ **Y**	☐ **N**	☐ **NE**	☐ **NA**
Benzene	▪ Y	☐ N	☐ NE	☐ NA
Toluene	▪ Y	☐ N	☐ NE	☐ NA
Ethylbenzene	▪ Y	☐ N	☐ NE	☐ NA
Xylenes	▪ Y	☐ N	☐ NE	☐ NA
Napthalene	▪ Y	☐ N	☐ NE	☐ NA
Fuel Oxys[5]	☐ **Y**	▪ **N**	☐ **NE**	☐ **NA**
MTBE[6]	▪ Y	☐ N	☐ NE	☐ NA
ETBE	☐ Y	▪ N	☐ NE	☐ NA
TAME	☐ Y	▪ N	☐ NE	☐ NA
TBA	▪ Y	☐ N	☐ NE	☐ NA
DIPE	☐ Y	▪ N	☐ NE	☐ NA
Ethanol	☐ Y	▪ N	☐ NE	☐ NA
Methanol	☐ Y	▪ N	☐ NE	☐ NA
Leaded Gas	▪ **Y**	☐ **N**	☐ **NE**	☐ **NA**
TML[7]	▪ Y	☐ N	☐ NE	☐ NA
EDC[8]	▪ Y	☐ N	☐ NE	☐ NA
EDB[8]	▪ Y	☐ N	☐ NE	☐ NA
Wear Metals[10]	▪ **Y**	☐ **N**	☐ **NE**	☐ **NA**
Total Lead	▪ Y	☐ N	☐ NE	☐ NA
Cadmium	▪ Y	☐ N	☐ NE	☐ NA
Chromium	▪ Y	☐ N	☐ NE	☐ NA
Zinc	▪ Y	☐ N	☐ NE	☐ NA
Nickel	▪ Y	☐ N	☐ NE	☐ NA
Others	☐ **Y**	▪ **N**	☐ **NE**	☐ **NA**
PAHs[9]	▪ Y	☐ N	☐ NE	☐ NA
CVOCs[11]	▪ Y	☐ N	☐ NE	☐ NA
PCBs	☐ Y	▪ N	☐ NE	☐ NA
PCPs	☐ Y	▪ N	☐ NE	☐ NA
Dioxins & Furans[12]	☐ Y	▪ N	☐ NE	☐ NA

Key:
- Y = Detected at site
- N = Tested for but never detected (method reporting limit less than current screening levels – validated by case review)
- NE = Identified Data Gap - Needs Further Evaluation (Tested for but never detected (method reporting limit greater than current screening levels)
- NA = Not Applicable (never present at site – validated by case review)

Chemicals of Concern (COCs) and Potential Chemicals of Concern (PCOCs) in Soil, Groundwater, Soil Gas, and/or Surface Water[1]

TOTAL PETROLEUM HYDROCARBON – GASOLINE RELATED CONSTITUENTS[2]

COC/PCOC	Soil				Groundwater				Soil Gas, Crawl Space or Indoor Air				Surface Water			
TPH																
TPH-g	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☒ NA
GRO	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Others	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Aromatics																
Benzene	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Toluene	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Ethylbenzene	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Xylenes	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Napthalene	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Fuel Oxys[5]																
MTBE[6]	☐ Y	☒ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
ETBE	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
TAME	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
TBA	☐ Y	☒ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
DIPE	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Ethanol	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Methanol	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Others	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Leaded Gas																
TML[7]	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☐ NA
EDC[8]	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☒ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☐ NA
EDB[8]	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☒ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☐ NA

Key:
- Y = Detected at site
- N = Tested for but never detected (method reporting limit less than current screening levels – validated by case review)
- NE = Identified Data Gap - Needs Further Evaluation (Tested for but never detected (method reporting limit greater than current screening levels)
- NA = Not Applicable (never present at site – validated by case review)

Chemicals of Concern (COCs) and Potential Chemicals of Concern (PCOCs) in Soil, Groundwater, Soil Gas, and/or Surface Water[1]

TOTAL PETROLEUM HYDROCARBONS – DIESEL, JET FUEL, ANDOTHER FUEL OIL RELATED CONSTITUENTS[3]

COC/PCOC	Soil				Groundwater				Soil Gas ☐, Crawl Space ☐, Indoor Air ☐				Surface Water			
TPH																
TPH-d	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA
DRO	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
TEPH	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Aromatics																
Benzene	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Toluene	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Ethylbenzene	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Xylenes	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Napthalene	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Others																
PAHs[9]	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA

Key:
- Y = Detected at site
- N = Tested for but never detected (method reporting limit less than current screening levels – validated by case review)
- NE = Identified Data Gap - Needs Further Evaluation (Tested for but never detected (method reporting limit greater than current screening levels)
- NA = Not Applicable (never present at site – validated by case review)

Chemicals of Concern (COCs) and Potential Chemicals of Concern (PCOCs) in Soil, Groundwater, Soil Gas, and/or Surface Water[1]

WASTE (USED) OILS[4]

COC/PCOC	Soil				Groundwater				Soil Gas ☒, Crawl Space ☐, Indoor Air ☐				Surface Water			
TPH																
TPH-g	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☒ NA
GRO	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
TPH-d	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☐ NA
DRO	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☐ NA
TPH-mo	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☐ NA
TEPH	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☐ NA
MORO	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☐ NA
Others	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Aromatics																
Benzene	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Toluene	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Ethylbenzene	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Xylenes	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Napthalene	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Fuel Oxys																
MTBE	☐ Y	☒ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
TBA	☐ Y	☒ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Others	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Wear Metals[10]																
Total Lead	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☐ NA
Cadmium	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☐ NA
Chromium	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☐ NA
Zinc	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☐ NA
Nickel	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☐ NA
Others																
CVOCs[11]	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☒ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
PCBs	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☒ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☐ NA
PCPs	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☐ NA
Dioxins & Furans[12]	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☐ NA

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Chemicals of Concern (COCs) and Potential Chemicals of Concern (PCOCs) in Soil, Groundwater, Soil Gas, and/or Surface Water[1]

NON PETROLEUM HYDROCARBON SOURCE - RELATED CONTAMINANTS

COC/PCOC	Soil				Groundwater				Soil Gas ☐, Crawl Space ☐, Indoor Air ☐				Surface Water			
	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA
VOCs[11]	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
SVOCs[13]	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
OCPs[14]	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Herbicides[15]	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Metals[16]	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Others	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA

REMEDIATION - RELATED BYPRODUCTS

COC/PCOC	Soil				Groundwater				Soil Gas ☐, Crawl Space ☐, Indoor Air ☐				Surface Water			
Remediation Byproducts	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA	☐ Y	☐ N	☐ NE	☒ NA
Chromium VI	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Other Metals[16]	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA
Others	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA	☐ Y	☐ N	☐ NE	☐ NA

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Chemicals of Concern (COCs) and Potential Chemicals of Concern (PCOCs) in Soil, Groundwater, Soil Gas, and/or Surface Water

VOLATILE ORGANIC COMPOUNDS

Compound	S	SG	GW	SW				
Benzene	☒	☒	☒	☐	☒ Y	☐ N	☐ NE	☐ NA
Bromobenzene	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
Bromochloromethane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
Bromodichloromethane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
Bromoform	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
Bromomethane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
n-Butylbenzene	☒	☐	☒	☐	☒ Y	☐ N	☐ NE	☐ NA
sec-Butylbenzene	☐	☐	☒	☐	☒ Y	☐ N	☐ NE	☐ NA
tert-Butylbenzene	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
Carbon tetrachloride	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
Chlorobenzene	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
Chlorodibromomethane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
Chloroethane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
Chloroform	☐	☐	☒	☐	☒ Y	☐ N	☐ NE	☐ NA
Chloromethane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
2-Chlorotoluene	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
4-Chlorotoluene	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
1,2-Dibromoethane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
Dibromomethane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
1,2-Dichlorobenzene	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
1,3-Dichlorobenzene	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
1,4-Dichlorobenzene	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
Dichlorodifluoromethane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
1,1-Dichloroethane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
1,2-Dichloroethane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
1,1-Dichloroethene	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
cis-1,2-Dichloroethene	☐	☒	☐	☐	☒ Y	☐ N	☐ NE	☐ NA
trans-1,2-Dichloroethene	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
1,2-Dichloropropane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA

Compound	S	SG	SW	GW				
2,2-Dichloropropane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
1,3-Dichloropropane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
1,1-Dichloropropene	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
Ethylbenzene	☒	☒	☐	☒	☒ Y	☐ N	☐ NE	☐ NA
Hexachlorobutadiene	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
Isopropylbenzene	☒	☐	☐	☒	☒ Y	☐ N	☐ NE	☐ NA
p-Isopropyltoluene	☒	☐	☐	☐	☒ Y	☐ N	☐ NE	☐ NA
Methylene chloride	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
Naphthalene	☒	☐	☐	☒	☒ Y	☐ N	☐ NE	☐ NA
n-Propylbenzene	☐	☐	☐	☒	☒ Y	☐ N	☐ NE	☐ NA
Styrene	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
Tetrachloroethene	☒	☒	☐	☒	☒ Y	☐ N	☐ NE	☐ NA
Toluene	☒	☒	☐	☒	☒ Y	☐ N	☐ NE	☐ NA
1,2,4-Trichlorobenzene	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
1,2,3-Trichlorobenzene	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
1,1,1-Trichloroethane	☐	☒	☐	☐	☒ Y	☐ N	☐ NE	☐ NA
1,1,2-Trichloroethane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
Trichloroethene	☐	☒	☐	☒	☒ Y	☐ N	☐ NE	☐ NA
Trichlorofluoromethane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
1,2,3-Trichloropropane	☐	☐	☐	☒	☒ Y	☐ N	☐ NE	☐ NA
1,2,4-Trimethylbenzene	☒	☒	☐	☒	☒ Y	☐ N	☐ NE	☐ NA
1,3,5-Trimethylbenzene	☒	☒	☐	☐	☒ Y	☐ N	☐ NE	☐ NA
Vinyl chloride	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA
o-Xylene	☒	☒	☐	☒	☒ Y	☐ N	☐ NE	☐ NA
m-Xylene	☒	☒	☐	☒	☒ Y	☐ N	☐ NE	☐ NA
p-Xylene	☒	☒	☐	☒	☒ Y	☐ N	☐ NE	☐ NA
Methyl-t-butyl ether	☒	☐	☐	☒	☒ Y	☐ N	☐ NE	☐ NA
Dichlorofluoromethane	☐	☐	☐	☐	☐ Y	☒ N	☐ NE	☐ NA

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Chemicals of Concern (COCs) and Potential Chemicals of Concern (PCOCs) in Soil, Groundwater, Soil Gas, and/or Surface Water

SEMI-VOLATILE ORGANIC COMPOUNDS

Compound	S	SG	GW	SW				
1,2-Dichlorobenzene	☒	☐	☒	☐	☐ Y	☐ N	☐ NE	☒ NA
1,2,4-Trichlorobenzene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
1,3-Dichlorobenzene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
1,4-Dichlorobenzene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
2-Chloronaphthalene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
2-Chlorophenol	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
2-Methylnaphthalene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
2-Methylphenol	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
2-Nitroaniline	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
2-Nitrophenol	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
2,2'-oxybis (1-Chloropropane)	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
2,4-Dichlorophenol	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
2,4-Dimethylphenol	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
2,4-Dinitrophenol	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
2,4-Dinitrotoluene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
2,4,5-Trichlorophenol	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
2,4,6-Trichlorophenol	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
2,6-Dinitrotoluene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
3-Nitroaniline	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
3,3'-Dichlorobenzidine	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
4-Bromophenyl-phenylether	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
4-Chloro-3-methylphenol	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
4-Chloroaniline	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
4-Chlorophenyl-phenyl ether	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
4-Methylphenol	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
4-Nitroaniline	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
4-Nitrophenol	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
4,6-Dinitro-2-methylphenol	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Acenaphthene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Acenaphthylene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Anthracene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Benzo(a)anthracene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA

Compound	S	SG	SW	GW				
Benzo(a)pyrene	☐	☐	☐	☒	☐ Y	☐ N	☐ NE	☒ NA
Benzo(b)fluoranthene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Benzo(g,h,i)perylene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Benzo(k)fluoranthene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
bis(2-Chloroethoxy)-methane	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
bis(2-Chloroethyl) ether	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
bis(2-Ethylhexyl)phthalate	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Butylbenzylphthalate	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Carbazole	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Chrysene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Di-n-butylphthalate	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Di-n-octylphthalate	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Dibenz(a,h)anthracene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Dibenzofuran	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Diethylphthalate	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Dimethylphthalate	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Fluoranthene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Fluorene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Hexachlorobenzene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Hexachlorobutadiene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Hexachlorocyclopentadiene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Hexachloroethane	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Indeno(1,2,3-cd)pyrene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Isophorone	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
N-Nitroso-di-n-propylamine	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
N-nitrosodiphenylamine	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Naphthalene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Nitrobenzene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Pentachlorophenol	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Phenanthrene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Phenol	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA
Pyrene	☐	☐	☐	☐	☐ Y	☐ N	☐ NE	☐ NA

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Chemicals of Concern (COCs) and Potential Chemicals of Concern (PCOCs) in Soil, Groundwater, Soil Gas, and/or Surface Water[1]

Notes:

CVOCS = Chlorinated Volatile Organic Compounds
DIPE = di-isopropyl either
EDC (ethylene dichloride) or 1,2-DCA (1,2-dichloroethane or ethylene dibromide)
EDB = 1,2-dibromomethane
ETBE = ethyl tert butyl ether
MTBE = methyl tert butyl ether (banned in CA since 2004)
OCPs = Organochlorine Pesticides
PAH = Polycyclic Aromatic Hydrocarbons or Polynuclear Aromatic Hydrocarbons
PCPs = Pentachlorphenol (wood preservative)
TAME = tert amyl methyl ether
TBA = t-Butyl Alcohol
TEL = tetra ethyl lead
TML = tetra methyl lead
SVOCs = Semi-volatile Organic Compounds
VOCs = Volatile Organic Compounds

1 = The analytes listed below are recommended in the CA LUFT Manual to ensure that site characterization is complete. Note that more analytes are recommended than are used as "criteria" chemicals in the LTCP for the various media.
2 = **CA LUFT Manual recommended analyses for gasoline releases** include BTEX, napthalene, and fuel oxygenates (MTBE and TBA) and/or lead scavengers if gasoline release was pre-1992.
3 = **CA LUFT Manual recommended analyses for fuel oil releases** include BTEX, and napthalene. Additionally, for heavy fuel oil such as bunker fuel the priority pollutant PAHs should be added to the list of analytes.
4 = **CA LUFT Manual recommended analyses for waste (used) motor oils** include BTEX, the 16 priority pollutant PAHs, chlorinated solvents (which will include EDB and EDC), and fuel oxygenates (MTBE and TBA). For soil only analysis for the five "wear metals" is also recommended.
5 = ACEH recommended analysis of all fuel oxygenates
6 = MTBE to be analyzed at all LUFT sites unless the tank contained only diesel or jet fuel per California Health and Safety Code 25296.15(a). MTBE was added to gasoline in California starting in approximately the late 1980's/early 1990's and was banned in 2004.
7 = Samples to be analyzed for tetra methyl lead
8 = Samples to be initially analyzed for lead scavengers EDC and EDB for all release sites and fuel oxygenates
9 = Use page b-8 to identify priority PAHs
10 = Wear metals need only be analyzed for soil
11 = Use page b-7 to identify specific VOCs
12 = Analyzed for dioxins and furans if PCBs and/or PCPs are detected
13 = Use page b-8 to identify specific SVOCs
14 = Use page b- to identify OCPs
15 = Use page b- to identify herbicides
16 = Use page b- to identify metals (in addition to the 5 wear metals)

LOW THREAT CLOSURE POLICY - GENERAL CRITERIA C

General Criteria c: **Has the Unauthorized ("Primary") Release from the UST System been Stopped?**	☒ Y	☐ N	☐ NE	☐ NA

LTCP Statement: "The tank, pipe, or other appurtenant structure that released petroleum into the environment (i.e. the primary source) has been removed, repaired or replaced. It is not the intent of this policy to allow sites with ongoing leaks from the UST system to qualify for low-threat closure."

Fuel Dispensing Facility History (list in chronological order, starting with operational in-place tanks)

	Contents (gas - (leaded, unleaded), diesel, waste oil, etc.)	Type (steel, fiberglass single-walled, double-walled)	Evidence of Release? (Y/N)	Closed in Place, Removed, or Upgraded?	Responsible Party (Organization Name, Type)	Date Installed	Date Removed
Tank (capacity in gallons)							
300	Waste Oil	Steel	Yes	Removed	FSI	Unknown	1986
500	Gasoline	Steel	Yes	Removed	FSI	Unknown	1986
Piping							
Dispensers							
1	Gasoline	Unknown	Unknown	Removed	FSI	Unknown	1986
Other Structures							
Hydraulic Lifts	Hydraulic Oil	5 - Total	Yes	Removed	FSI	1950s	1980s
Hydraulic Lifts	Hydraulic OIl	1 -Total	No	Removed	FSI	1950s	July 2012

Is the site currently an operating fuel dispensing facility?	☐ Y	☒ N	☐ NE	☐ NA
Have there been multiple tank system locations at the site?	☐ Y	☒ N	☐ NE	☐ NA
Have there been multiple releases at the site?	☐ Y	☒ N	☐ NE	☐ NA
Was there a previous/different regulatory case at this site? Identify previous case number:	☐ Y	☐ N	☐ NE	☒ NA
Is there evidence of releases from other on-site sources besides the UST system(s)?	☒ Y	☐ N	☐ NE	☐ NA
Is there indication of impacts from offsite sources?	☐ Y	☒ N	☐ NE	☐ NA

Use General Criteria e – Conceptual Site Model (Sources) sheets to support answers

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

LOW THREAT CLOSURE POLICY - GENERAL CRITERIA C

General Criteria c:

Has the Unauthorized ("Primary") Release from the UST System been Stopped?

Case File Reference Documents:

AEI's Interim Source Removal Report and Well Abandonment and Replacement Workplan Addendum dated December 7, 2012.

Attachments:

Case Notes:

All USTs, Hydraulic Hoists, and the dispenser island was removed in 1986. Based on the removal of these items, the primary source has been removed. The absence of these features was further confirmed during excavation activities in October 2012 as outlined in the above referenced report. Furthermore, the area around the former gasoline dispenser island was excavated during October 2013 verifying the absence of the dispenser.

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

LOW THREAT CLOSURE POLICY - GENERAL CRITERIA D

General Criteria d: **Has Free Product been Removed to the Maximum Extent Practicable?**	☒ Y	☐ N	☐ NE	☐ NA

LTCP Statement: "At petroleum unauthorized release sites where investigations indicate the presence of free product, free product shall be removed to the maximum extent practicable. In meeting the requirements of this section:

(a) Free product shall be removed in a manner that minimizes the spread of the unauthorized release into previously uncontaminated zones by using recovery and disposal techniques appropriate to the hydrogeologic conditions at the site, and that properly treats, discharges or disposes of recovery byproducts in compliance with applicable laws;

(b) Abatement of free product migration shall be used as a minimum objective for the design of any free product removal system; and

(c) Flammable products shall be stored for disposal in a safe and competent manner to prevent fires or explosions."

Has free product (migrating of mobile LNAPL) been detected in site monitoring wells?	☒ Y	☐ N	☐ NE	☐ NA

MW ID	Date FP First Observed	Max FP Apparent Thickness (feet), sheen, or globules	Most Recently Observed FP Apparent Thickness (feet)	Date of Most Recent FP Observation
DPE-5	2/27/13	0.17	0.09	8/2/13

Has a description of the standard operating procedures used to measure free product in wells been provided?	☒ Y	☐ N	☐ NE	☐ NA
Has an adequate LNAPL Conceptual Site Model been developed?	☒ Y	☐ N	☐ NE	☐ NA

Was free product observed during tank removal activities or station upgrades?	☐ Y	☒ N	☐ NE	☐ NA
Has an evaluation of the adequacy of the monitoring well network and appropriateness of screen interval to detect free product been conducted?	☒ Y	☐ N	☐ NE	☐ NA
Have there been other indications of the presence of free product (i.e., observations during tank removal, observations during exploratory drilling, bore logs, dissolved phase concentrations of COCs greater than their effective solubility's in groundwater, etc.)	☐ Y	☒ N	☐ NE	☐ NA
Has a preferential pathway study been conducted to determine the probability of free product encountering geologic and anthropogenic preferential pathways and conduits that can act as contaminant migration pathways to or from the site?	☒ Y	☐ N	☐ NE	☐ NA
Has the LNAPL body spatial distribution (horizontal and vertical) been defined?	☒ Y	☐ N	☐ NE	☐ NA
Are there risk and exposure issues attributed to the presence of the LNAPL?	☐ Y	☒ N	☐ NE	☐ NA
Has an evaluation of whether free product removal is practicable, or if not practicable, a description of the conditions that prevent free product removal been conducted?	☒ Y	☐ N	☐ NE	☐ NA

Use General Criteria e - Conceptual Site Model (Free Product) sheets to support answer

Has free product removal been implemented?	☒ Y	☐ N	☐ NE	☐ NA

Location/ MW ID	Method (Absorbent Materials, Bailing, Skimmer, DPE, Excavation, etc.)	Cumulative Gallons/Volume/Mass Removed	Dates Implemented
DPE-5	Excavation of DPE-5 and surrounding source.	3,460 Gallons of Groundwater were removed.	October 2013

Does data indicate rebound of free product subsequent to product removal?	☐ Y	☐ N	☐ NE	☒ NA

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

LOW THREAT CLOSURE POLICY - GENERAL CRITERIA D

General Criteria d:
Has Free Product been Removed to the Maximum Extent Practicable?

Case File Reference Documents:

Attachments:

Case Notes:

Based on a review of historical site documents, LNAPL has not been reported at the site. However, during recent sampling events (February 2013 and May 2013), LNAPL was encountered in DEP-5. During the May 2013 sampling event, LNAPL was measured in DPE-5 at a thickness of 0.17 feet.

The hydraulic oil LNAPL observed appears to be contained within the soil pore structure and is not recoverable or mobile. Higher and lower water levels in DPE-5 do not allow the oil to be released from the soil pores as during low groundwater (November 2012) LNAPL was not detected as the LNAPL is not mobile. During high groundwater (February 2013), LNAPL was observed but not at a measurable thickness as the LNAPL was confined by groundwater. Only during a period with groundwater directly at the LNAPL interface (May 2013) was the LNAPL able to accumulate to a measurable thickness.

Laboratory analysis of the LNAPL has indicated that it consists primarily of "lubricating oil" which is consistent with hydraulic oil, with a fraction of gasoline range.

Excavation activities completed in October 2013 removed DPE-5 and the surrounding area which was the source of the LNAPL at the site. A total of 3,460 gallons of groundwater were removed from the excavation and a total of 946.77 tons of soil were removed during excavation activities. Confirmation soil samples confirm that the sour of the LNAPL was removed and residual contamination is not representative of conditions that would result in LNAPL.

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

LOW THREAT CLOSURE POLICY - GENERAL CRITERIA E

General Criteria e: **Has a Conceptual Site Model that Assesses the Nature, Extent, and Mobility of the Release been Developed?**	☒ Y	☐ N	☐ NE

LTCP Statement: "The Conceptual Site Model (CSM) is a fundamental element of a comprehensive site investigation. The CSM establishes the source and attributes of the unauthorized release, describes all affected media (including soil, groundwater, and soil vapor as appropriate), describes local geology, hydrogeology and other physical site characteristics that affect contaminant environmental transport and fate, and identifies all confirmed and potential contaminant receptors (including water supply wells, surface water bodies, structures and their inhabitants). The CSM is relied upon by practitioners as a guide for investigative design and data collection. Petroleum release sites in California occur in a wide variety of hydrogeologic settings. As a result, contaminant fate and transport and mechanisms by which receptors may be impacted by contaminants vary greatly from location to location. Therefore, the CSM is unique to each individual release site. All relevant site characteristics identified by the CSM shall be assessed and supported by data so that the nature, extent and mobility of the release have been established to determine conformance with applicable criteria in this policy. The supporting data and analysis used to develop the CSM are not required to be contained in a single report and may be contained in multiple reports submitted to the regulatory agency over a period of time."

Has a CSM been prepared that is representative of current site conditions?	☒ Y	☐ N

Document Title	Author	Date
Conceptual Site Model Updated - January 2014	AEI	1/21/14

If the CSM is provided in multiple documents, provide additional document titles, authors and dates in the Case File Reference document section on page e-2

Is the CSM comprehensive enough to show compliance with all the LTCP criteria and that final closure review is appropriate?	☒ Y	☐ N

General Criteria			
a	The unauthorized release is located within the service area of a public water system	☒ Y	☐ N
b	The unauthorized release consists only of petroleum	☒ Y	☐ N
c	The unauthorized ("primary") release from the UST system has been stopped	☒ Y	☐ N
d	Free product has been removed to the maximum extent practicable	☒ Y	☐ N
e	A CSM that assesses the nature, extent, and mobility of the release has been developed	☒ Y	☐ N
f	Secondary source has been removed to the extent practicable	☒ Y	☐ N
g	Soil or groundwater has been tested for MTBE and results reported in accordance with Health and Safely Code section 25296.15	☒ Y	☐ N
h	Nuisance as defined by Water Code section 13050 does not exist at the site	☒ Y	☐ N
Media-Specific Criteria			
Groundwater		☒ Y	☐ N
Vapor Intrusion to Indoor Air		☒ Y	☐ N
Direct Contact and Outdoor Air Exposure		☒ Y	☐ N

If the CSM is not comprehensive enough to show compliance with all the LTCP criteria, then

Has a data gap investigation work plan been prepared that is guided by the CSM?	☒ Y	☐ N
Has a path to closure plan been prepared that is guided by the CSM?	☒ Y	☐ N

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

LOW THREAT CLOSURE POLICY - GENERAL CRITERIA E

General Criteria e: Case Notes

Case File Reference Documents:

Attachments:

Case Notes:

See attached Conceptual Site Model for a discussion of the CSM components.

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

LOW THREAT CLOSURE POLICY - GENERAL CRITERIA F

General Criteria f: **Has Secondary Source been Removed to the Extent Practicable?**	☑ Y	☐ N	☐ NE

LTCP Statement: "Secondary source" is defined as petroleum-impacted soil or groundwater located at or immediately beneath the point of release from the primary source. Unless site attributes prevent secondary source removal (e.g. physical or infrastructural constraints exist whose removal or relocation would be technically or economically infeasible), petroleum-release sites are required to undergo secondary source removal to the extent practicable as described herein. "To the extent practicable" means implementing a cost-effective corrective action which removes or destroys-in-place the most readily recoverable fraction of source-area mass. It is expected that most secondary mass removal efforts will be completed in one year or less. Following removal or destruction of the secondary source, additional removal or active remedial actions shall not be required by regulatory agencies unless (1) necessary to abate a demonstrated threat to human health or (2) the groundwater plume does not meet the definition of low threat as described in this policy."

	Y	N	NE	NA
Has corrective action been implemented at the site to remove or destroy-in-place the most readily recoverable fraction of source-area mass?	☑	☐	☐	☐
Soil remediation	☑	☐	☐	☐

Method	Mass/Volume Removed	Dates of Implementation
HVDPE	18,134 Pounds	December 2011 to April 2012
Excavation	447.52 Tons	October 2012
Excavation	946.77 Tons	October 2013

	Y	N	NE	NA
If soil remediation is currently being conducted, then is it progressing adequately?	☐	☐	☐	☑
If soil remediation is no longer being conducted then, has confirmation sampling results confirmed that additional corrective actions are not necessary?	☑	☐	☐	☐
Are additional soil remedial actions necessary to meet the media-specific criteria of the Policy or to abate a demonstrated threat to human health?	☐	☑	☐	☐
Groundwater Remediation	☑	☐	☐	☐

Method	Mass/Volume Removed	Dates of Implementation
HVDPE	390,460 Gallons	December 2011 to April 2012
Excavation	3,460 gallons	October 2013

	Y	N	NE	NA
If groundwater remediation is currently being conducted, then is it progressing adequately?	☐	☐	☐	☑
If groundwater remediation is no longer being conducted then, has verification monitoring confirmed that additional corrective actions are not necessary?	☑	☐	☐	☐
Are additional groundwater remedial actions necessary to meet the media-specific criteria of the Policy or to abate a demonstrated threat to human health?	☐	☑	☐	☐

Use sheet f-2 - Maximum Detected Contaminant Concentrations Before and After Corrective Action to support your answers

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

General Criteria f: Maximum Documented Contaminant Concentrations Before and After Correction Action

Contaminant	Soil (ppm)		Water (ppb)	
	Historical Maximum	Current Maximum	Historical Maximum	Current Maximum
TPHmo	24,000	3,400	300,000	<250
TPHd	10,000	880	100,000	530
TPHg	15,000	1,500	200,000	610
Benzene	84	<5.0	21,000	39
Toluene	710	17	30,000	0.78
Ethylbenzene	260	42	4,400	29
Xylenes	1,400	180	21,000	5.2
MTBE	9.3	<Detection Limit	110	<1.0
TBA	<Detection Limit	<Detection Limit	75	16
EDB	<Detection Limit	<Detection Limit	0.65	<1.2
EDC	<Detection Limit	<Detection Limit	6.1	4.1
PCE	0.045	<Detection Limit	11	13
TCE	<Detection Limit	<Detection Limit	63	64
Naphthalene	59	22	22	24
n-Butyl-benzene	37	17	0.62	1.7
1,2,4-Trimethyl-benzene	270	91	140	29
1,3,5-Trimethyl-benzene	85	28	<Detection Limit	<Detection Limit
sec-Butyl benzene	2.7	2.7	3.7	5.1
n-Propyl benzene	45	11	20	3.3
Isopropyl benzene	5.7	2.9	12	3.6
4-Isopropyl toluene	5.1	4.8	<Detection Limit	1.5
2-Butanone	<Detection Limit	<Detection Limit	2.7	<2.0
Cis-1,2-DCE	<Detection Limit	<Detection Limit	4.5	7.0
1,2,3-Trichloropropane	<Detection Limit	<Detection Limit	1.0	6.4
Chloroform	--	--	7.4	9.8
Remaining VOCs	<Detection Limit	<Detection Limit	<Detection Limit	<Detection Limit
PCBs	<Detection Limit	<Detection Limit	--	--

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

LOW THREAT CLOSURE POLICY - GENERAL CRITERIA F

General Criteria f: Case Notes

Case File Reference Documents:

Interim Source Removal Report and Well Abandonment and Replacement Workplan Addendum - 12/7/2012 (AEI)
Source Removal Excavation and Additional Sampling Report - January 21, 2014 (Draft)

Attachments:

Case Notes:

It should be noted that “before” soil concentrations are from the former gasoline/waste oil UST cavity. Following excavation activities in 2012, confirmation sampling within the UST cavity indicated that petroleum hydrocarbons were non-detect, or nearly so. Based on this data, the secondary source for the primary release has been effectively removed from the site.

Following the 2012 excavation activities, elevated concentrations of hydrocarbons were present around DPE-5. Subsequently in October 2013 the area surrounding the E3 excavation and DPE-5 were excavated and "after" soil samples are from samples collected within the resulting excavation as well as any confirmation samples collected in 2012 which remain at the site.

Please refer to AEI’s Corrective Action Plan dated February 3, 2012 for historical concentrations, AEI’s Interim Source Removal Report and Well Abandonment and Replacement Workplan Addendum dated December 7, 2012, in conjunction with AEI’s Source Removal Excavation and Additional Sampling Report dated January 2014 for post remedial concentrations.

Current maximum groundwater concentrations are from the October 24, 2013 sampling event.

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

LOW THREAT CLOSURE POLICY - GENERAL CRITERIA G

General Criteria g: **Has Soil or Groundwater been Tested for MTBE and Results Reported in Accordance with Health and Safety Code Section 25296.15?**	☑ Y	☐ N	☐ NE	☐ NA

LTCP Statement: "Health and Safety Code section 25296.15 prohibits closing a UST case unless the soil, groundwater, or both, as applicable have been tested for MTBE and the results of that testing are known to the Regional Water Board. The exception to this requirement is where a regulatory agency determines that the UST that leaked has only contained diesel or jet fuel. Before closing a UST case pursuant to this policy, the requirements of section 25296.15, if applicable, shall be satisfied."

Exemption - Has sufficient data been presented to determine that the UST that leaked has only contained diesel or jet fuel?	☐ Y	☐ N	☐ NE	☑ NA

If the site does not qualify for the exemption then

Has sufficient data been presented to assess whether MTBE is or was present in soil at or in the vicinity of the site?	☑ Y	☐ N	☐ NE	☐ NA
Has sufficient data been presented to assess whether MTBE is or was present in groundwater at or in the vicinity of the site?	☑ Y	☐ N	☐ NE	☐ NA
Have all results been verified by the appropriate analytical laboratory method?	☑ Y	☐ N	☐ NE	☐ NA

Use General Criteria b pages b-3 and General Criteria e – Conceptual Site Model sheets to support answer

Case File Reference Documents:

Attachments:

Case Notes:

Historical groundwater monitoring events have always included MTBE in the analytical suite. Please refer to historical reports for required data. Comprehensive soil and groundwater data tables for all samples which have been analyzed for MTBE is included in the updated Conceptual Site Model Tables Section.

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

LOW THREAT CLOSURE POLICY - GENERAL CRITERIA H

General Criteria h: **Does a Nuisance as Defined by Water Code Section 13050 Exist at the Site?**	☐ Y	☒ N	☐ NE

LTCP Statement: "Water Code section 13050 defines "nuisance" as anything which meets all of the following requirements:

(1) Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property.

(2) Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal.

(3) Occurs during, or as a result of, the treatment or disposal of wastes.

For the purpose of this policy, waste means a petroleum release."

Does a nuisance condition currently exist (or potentially could exist) that meets all of the following criteria?	☐ Y	☒ N	☐ NE	☐ NA
Is injurious to health? *-OR-*	☐ Y	☒ N	☐ NE	☐ NA
Is indecent or offensive to the senses? *-OR-*	☐ Y	☒ N	☐ NE	☐ NA
Is an obstruction to the free use of property so as to interfere with the comfortable enjoyment of life or property?	☐ Y	☒ N	☐ NE	☐ NA
Affects at the same time an entire community, although the extent of the annoyance or damage inflicted upon individuals may be unequal? *-OR-*	☐ Y	☒ N	☐ NE	☐ NA
Affects at the same time an entire neighborhood, although the extent of the annoyance or damage inflicted upon individuals may be unequal? *-OR-*	☐ Y	☒ N	☐ NE	☐ NA
Affects at the same time any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal?	☐ Y	☒ N	☐ NE	☐ NA
Occurs during the treatment of waste? *-OR-*	☐ Y	☒ N	☐ NE	☐ NA
Occurs during the disposal of waste? *-OR-*	☐ Y	☒ N	☐ NE	☐ NA
Occurs as a result of the treatment of waste? *-OR-*	☐ Y	☒ N	☐ NE	☐ NA
Occurs as a result of the disposal of waste?	☐ Y	☒ N	☐ NE	☐ NA

Has an evaluation of whether site contamination is present in locations that have the potential to pose nuisance conditions during common or reasonably expected site activities been conducted?	☒ Y	☐ N	☐ NE	☐ NA
Surface soils?	☒ Y	☐ N	☐ NE	☐ NA
Utility corridors?	☒ Y	☐ N	☐ NE	☐ NA
Groundwater?	☒ Y	☐ N	☐ NE	☐ NA
Surface water?	☐ Y	☐ N	☐ NE	☒ NA
Soil gas?	☒ Y	☐ N	☐ NE	☐ NA
Basements or other subsurface structures?	☐ Y	☐ N	☐ NE	☒ NA

Use the following to support your answer:

- *General Criteria a (site located within a service area of a public water supply system)*
- *General Criteria b (identified chemicals of concern and potential chemicals of concern)*
- *General Criteria d (free product evaluation)*
- *General Criteria e (results of preferential pathway and sensitive receptor survey)*
- *Media Specific Criteria for Groundwater*
- *Media Specific Criteria for Vapor Intrusion to Indoor Air*
- *Media Specific Criteria for Direct Contact and Outdoor Air Exposure*

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

LOW THREAT CLOSURE POLICY - GENERAL CRITERIA H

General Criteria h: Case Notes

Case File Reference Documents:

Attachments:

Case Notes:

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

LOW THREAT CLOSURE POLICY
MEDIA SPECIFIC CRITERIA: GROUNDWATER

Does the site qualify for the Soil Only Case exemption? -OR-	☐ Y	☐ N	☐ NE
Does the site satisfy the Media-Specific Criteria for Groundwater?	☒ Y	☐ N	☐ NE

LTCP Statement: "This policy describes criteria on which to base a determination that threats to existing and anticipated beneficial uses of groundwater have been mitigated or are de minimis, including cases that have not affected groundwater.

State Water Board Resolution 92-49, *Policies and Procedures for Investigation and Cleanup and Abatement of Discharges Under Water Code Section 13304* is a state policy for water quality control and applies to petroleum UST cases. Resolution 92-49 directs that water affected by an unauthorized release attain either background water quality or the best water quality that is reasonable if background water quality cannot be restored. Any alternative level of water quality less stringent than background must be consistent with the maximum benefit to the people of the state, not unreasonably affect current and anticipated beneficial use of affected water, and not result in water quality less than that prescribed in the water quality control plan for the basin within which the site is located. Resolution No. 92-49 does not require that the requisite level of water quality be met at the time of case closure; it specifies compliance with cleanup goals and objectives within a reasonable time frame.

Water quality control plans (Basin Plans) generally establish "background" water quality as a restorative endpoint. This policy recognizes the regulatory authority of the Basin Plans but underscores the flexibility contained in Resolution 92-49.

It is a fundamental tenet of this low-threat closure policy that if the closure criteria described in this policy are satisfied at a petroleum unauthorized release site, attaining background water quality is not feasible, establishing an alternate level of water quality not to exceed that prescribed in the applicable Basin Plan is appropriate, and that water quality objectives will be attained through natural attenuation within a reasonable time, prior to the expected need for use of any affected groundwater.

If groundwater with a designated beneficial use is affected by an unauthorized release, to satisfy the media-specific criteria for groundwater, the contaminant plume that exceeds water quality objectives must be stable or decreasing in areal extent, and meet all of the additional characteristics of one of the five classes of sites listed below. A plume that is "stable or decreasing" is a contaminant mass that has expanded to its maximum extent: the distance from the release where attenuation exceeds migration."

"Sites with Releases that Have Not Affected Groundwater - Sites with soil that does not contain sufficient mobile constituents [leachate, vapors, or light non-aqueous-phase liquids (LNAPL)] to cause groundwater to exceed the groundwater criteria in this policy shall be considered low-threat sites for the groundwater medium. Provided the general criteria and criteria for other media are also met, those sites are eligible for case closure. For older releases, the absence of current groundwater impact is often a good indication that residual concentrations present in the soil are not a source for groundwater pollution."

Has adequate data been collected to demonstrate that soil does not contain sufficient mobile constituents to cause groundwater to exceed the groundwater criteria in this policy?					☒ Y	☐ N	☐ NE
Leachate?	☒ Y	☐ N	☐ NE	☐ NA			
Soil gas?	☒ Y	☐ N	☐ NE	☐ NA			
LNAPL?	☒ Y	☐ N	☐ NE	☐ NA			
If the site does not qualify for the soil only exemption, then Does groundwater in the vicinity of the site have beneficial use designations?					☒ Y	☐ N	☐ NE

Use General Criteria e – Conceptual Site Model sheets to support answer

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

LOW THREAT CLOSURE POLICY
MEDIA SPECIFIC CRITERIA: GROUNDWATER

GROUNDWATER PLUME STABILITY

If the site <u>does not</u> qualify for the soil only exemption, and groundwater has designated beneficial uses, then, **Is the contaminant plume stable or decreasing in areal extent?**	☒ **Y**	☐ **N**	☐ **NE**	☐ **NA**

Technical Justification for Groundwater Media-Specific Criteria: "A plume is considered stable or decreasing if a contaminant mass has expanded to its maximum extent: the distance from the release where attenuation exceeds migration. There are two common ways to demonstrate plume stability. The first common way is to routinely observe non-detect values for groundwater parameters in down-gradient wells. The second common way is to show stable or decreasing concentration levels in down-gradient wells at the distal end of the plume. It should be noted that concentration levels may exhibit fluctuation due to seasonal variations. These variations may be also attributed to man-made factors, including but not limited to: varying sampling techniques, false positive results, or laboratory inconsistencies."

"Requiring that a plume must be stable or decreasing reduces uncertainty as to how long the plume might become in the future.

Has the maximum stabilized plume length been defined?	☒ Y	☐ N	☐ NE	☐ NA
Have non-detect values for groundwater parameters in down-gradient wells at the distal end of the plume been routinely observed?	☐ Y	☒ N	☐ NE	☐ NA

MW ID's	Dates of GW Monitoring Events Demonstrating Non-Detect Values?

Have stable or decreasing concentration levels in down-gradient wells at the distal end of the plume been routinely observed?	☒ Y	☐ N	☐ NE	☐ NA

MW ID's	Dates of GW Monitoring Events Demonstrating Stability?
MW-4	May 2012, July 2012, February 2013, August 2013, October 2013, January 2014
MW-5	May 2012, July 2012, February 2013, August 2013, January 2014

Do concentration levels exhibit fluctuations due to seasonal variations?	☒ Y	☐ N	☐ NE	☐ NA
Do concentration levels exhibit fluctuations due to man- made factors?	☐ Y	☒ N	☐ NE	☐ NA

Varying Sampling Techniques?	☐ Y	☐ N	☐ NE	☒ NA
False Positive Results?	☐ Y	☐ N	☐ NE	☒ NA
Laboratory Inconsistencies?	☐ Y	☐ N	☐ NE	☒ NA

Use Criteria e – Conceptual Site Model sheets to support answers

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

LOW THREAT CLOSURE POLICY
MEDIA SPECIFIC CRITERIA: GROUNDWATER

GROUNDWATER CONTAMINANT PLUME CLASSIFICATION CHARACTERISTICS

If the Contaminant Plume is Stable or Decreasing, then **Does the contaminant plume that exceeds water quality objectives meet <u>all of the additional characteristics</u> of at least <u>one of the five</u> (5) LTCP classes listed below?**	☒ Y	☐ N	☐ NE	☐ NA

	Plume Length[1] (feet)	Free Product Remaining[2] (Yes/No)	Distance of Nearest Water Supply Well from Plume Boundary[3] (feet)	Distance of Nearest Surface Water Body from Plume Boundary[4] (feet)	Stable or Decreasing Plume[5]	Maximum Dissolved Benzene Concentration[6] (µg/L)	Maximum Dissolved MTBE Concentration[6] (µg/L)	Property Owner Willing to Accept Land Use Restriction[7]			
Site	200	No	1000	1500	Yes	56	<0.5	No			
Does the contaminant plume that exceeds water quality objectives meet <u>all of the characteristics</u> of at least <u>one of the five</u> LTCP classes listed below?									☒ **Y**	☐ **N**	☐ **NE**
1[a]	< 100	No	>250	>250	Yes	NA	NA	NA	☐ Y	☒ N	☐ NE
2[b]	<250	No	>1,000	>1,000	Yes	<3,000	<1,000	NA	☒ Y	☐ N	☐ NE
3[c]	<250	Yes	>1,000	>1,000	> 5 Years	NA	NA	Yes	☐ Y	☒ N	☐ NE
4[d]	<1,000	No	>1,000	>1,000	Yes	<1,000	<1,000	NA	☒ Y	☐ N	☐ NE
5[e]	A site-specific analysis determines that under current and reasonable anticipated near-term future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable period time frame.								☐ Y	☐ N	☒ NE

<u>Notes:</u>

1 = The length of the plume is the maximum extent from the point of release of any petroleum related constituent in groundwater that exceeds the WQOs. The plume boundary is where the constituent(s) furthest from the point of release concentration level equals the WQOs (Technical Justification for Groundwater Specific Criteria). **General Criteria – Conceptual Site Model pages e-___ through e-___ to support plume length determination.**

2 = A "Yes" designation signifies free product remains at the site, has been removed to the maximum extent practicable, but does not extend off-site. A "No" designation means free product does not exist onsite or off-site. **See General Criteria – Conceptual Site Model pages e-___ through e-___** to support free product status.

(See page gw-4 for a continuation of notes)

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

LTCP Groundwater Contaminant Plume Classification Characteristics

Notes (continued):

3 = **See General Criteria – Conceptual Site Model sheets** to support distance to nearest water supply well.

4 = **See General Criteria – Conceptual Site Model sheets** to support distance to nearest surface water body.

5 = The specified concentrations are maximums, and typically occur in source area monitoring wells. **See General Criteria – Conceptual Site Model sheets** to support length of time plume has been stable or decreasing.

6 = The specified concentrations are maximums, and typically occur in source area monitoring wells. **See General Criteria – Conceptual Site Model sheets** to support dissolved benzene and MTBE concentrations.

7 = **See General Criteria – Conceptual Site Model sheets** to support Property Owner's willingness to accept Land Use Restrictions.

a = Class 1: Represents a short, stabilized plume that is indicative of a small or depleted source and/or very high natural attenuation rate. (CA LUFT Manual)

b = Class 2: Represents a moderate, stabilized plume length (plume boundary is <250 feet from point of release) that approximates the average benzene plume length from cited studies. The maximum concentration of benzene (3,000 µg/L) and MTBE (1,000 µg/L) in groundwater are conservative indicators that free product is not present. These concentrations are approximately 10% and 0.02%, respectively, of the typical effective solubility of benzene and MTBE in unweathered gasoline. (CA LUFT Manual)

c = Class 3: Represents a moderate, stabilized plume length (plume boundary is <250 feet from point of release) that approximates the average benzene plume length from cited studies. The on-site free product and/or high dissolved concentrations in the plume remaining after secondary source removal to the maximum extent practicable as per the General Criteria in the Policy require that the plume has been stable or decreasing for a minimum of five years of monitoring to validate plume stability/natural attenuation (i.e., to confirm that the rate of natural attenuation exceeds the rate of LNAPL dissolution and dissolved-phase migration). (CA LUFT Manual)

d = Class 4: Represents a long, stabilized plume length (plume boundary is <1,000 feet from point of release) that approximates the maximum MTBE plume length cited. (CA LUFT Manual)

e = Class 5: For other low-threat site-specific scenarios not captured in Class 1 through 4, use a fate-and-transport model to evaluate the potential migration and attenuation of the chemicals using site-specific calibration data when available. It is important to use models that consider mass balance whenever possible. (CA LUFT Manual)

NA = Not applicable

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

Groundwater: Case Notes

Case File References (Document File Names):

TCE Evaluation dated April 30, 2014

Technical References:

Case Notes:

Groundwater plume is considered shrinking or stable based on decreasing concentrations in all wells at the site (minimum 3 sampling points). Refer to Figures 5 to 10 in the December 7, 2012 Interim Source Removal Report and Well Abandonment and Replacement Workplan Addendum for groundwater concentration trends over time.

Given the site characteristics and limited plume extent, Parcel B should be eligible for LTC in the groundwater based on Criteria 2 or 4.

Plume length calculated at 200 feet in length based on isoconcentration maps for TPHg and benzene with MW-5 as end of the plume based on low concentrations during several sampling events. The 200 foot length accounts for an additional 20-30 feet of attenuation beyond MW-5 due to dissolved concentrations above the WQOs during some monitoring events.

PCE and TCE have also been detected in the groundwater beneath the site and appear to be stable. The highest concentrations were reported in the area of MW-3 and attenuate rapidly towards offiste wells MW-4 and MW-5. AEI's analysis of the TCE plume determined that the extent of the plume was approximately 187 feet from the nearest residential receptor and did not pose a significant risk for vapor intrusion to residential properties.

LOW THREAT CLOSURE POLICY
MEDIA SPECIFIC CRITERIA: PETROLEUM VAPOR INTRUSION TO INDOOR AIR

Does the site qualify for the active commercial fueling facility exemption? **-OR-**	☐ **Y**	☒ **N**	☐ **NE**
Does the site meet <u>one of the three</u> petroleum vapor intrusion to indoor air specific criteria (a, b, or c)?	☒ **Y**	☐ **N**	☐ **NE**

LTCP Statement: "Exposure to petroleum vapors migrating from soil or groundwater to indoor air may pose unacceptable human health risks. This policy describes conditions, including bioattenuation zones, which if met will assure that exposure to petroleum vapors in indoor air will not pose unacceptable health risks. In many petroleum release cases, potential human exposures to vapors are mitigated by bioattenuation processes as vapors migrate toward the ground surface. For the purposes of this section, the term "bioattenuation zone" means an area of soil with conditions that support biodegradation of petroleum hydrocarbon vapors.

The low-threat vapor-intrusion criteria described below apply to sites where the release originated and impacted or potentially impacted adjacent parcels when:

(1) existing buildings are occupied or may be reasonably expected to be occupied in the future, <u>or</u>

(2) buildings for human occupancy are reasonably expected to be constructed in the future.

Appendices 1 through 4 (attached) illustrate four potential exposure scenarios and describe characteristics and criteria associated with each scenario. Petroleum release sites shall satisfy the media-specific criteria for petroleum vapor intrusion to indoor air and be considered low-threat for the vapor-intrusion-to-indoor-air pathway if:

a. Site-specific conditions at the release site satisfy all of the characteristics and criteria of scenarios 1 through 3 as applicable, or all of the characteristics and criteria of scenario 4 as applicable; <u>or</u>

b. A site-specific risk assessment for the vapor intrusion pathway is conducted and demonstrates that human health is protected to the satisfaction of the regulatory agency; <u>or</u>

c. As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, the regulatory agency determines that petroleum vapors migrating from soil or groundwater will have no significant risk of adversely affecting human health.

Exception: Exposures to petroleum vapors associated with historical fuel system releases are comparatively insignificant relative to exposures from small surface spills and fugitive vapor releases that typically occur at active fueling facilities. Therefore, satisfaction of the media-specific criteria for petroleum vapor intrusion to indoor air is not required at active commercial petroleum fueling facilities, except in cases where release characteristics can be reasonably believed to pose an unacceptable health risk."

Does the site qualify for an <u>exemption</u> from the Petroleum Vapor Intrusion to Indoor Air criteria?	☐ **Y**	☒ **N**	☐ **NE**	☐ **NA**
Is the site is an active commercial petroleum fueling facility?	☐ Y	☒ N	☐ NE	☐ NA
Are release characteristics reasonably believed to pose an unacceptable health risk to facility users or nearby facilities?	☐ Y	☒ N	☐ NE	☐ NA
If the site <u>does not qualify</u> for an exemption, then				
a. Do site-specific conditions at the release site satisfy all of the characteristics and criteria of scenarios 1 through 3 as applicable, <u>or</u> all of the characteristics and criteria of scenario 4? **-OR-** ***(Use page vi-2 through vi-10 to support answer)***	☒ Y	☐ N	☐ NE	☐ NA
b. Has a site-specific risk assessment for the vapor intrusion pathway been conducted that demonstrates that human health is protected? **-OR-**	☐ Y	☐ N	☐ NE	☒ NA
c. As a result of controlling exposure through the use of mitigation measures <u>or</u> through the use of institutional or engineering controls, has the regulatory agency determined that petroleum vapors migrating from soil or groundwater will have no significant risk of adversely affecting human health?	☐ Y	☐ N	☐ NE	☒ NA

Use General Criteria e - Conceptual Site Model pages to support answer

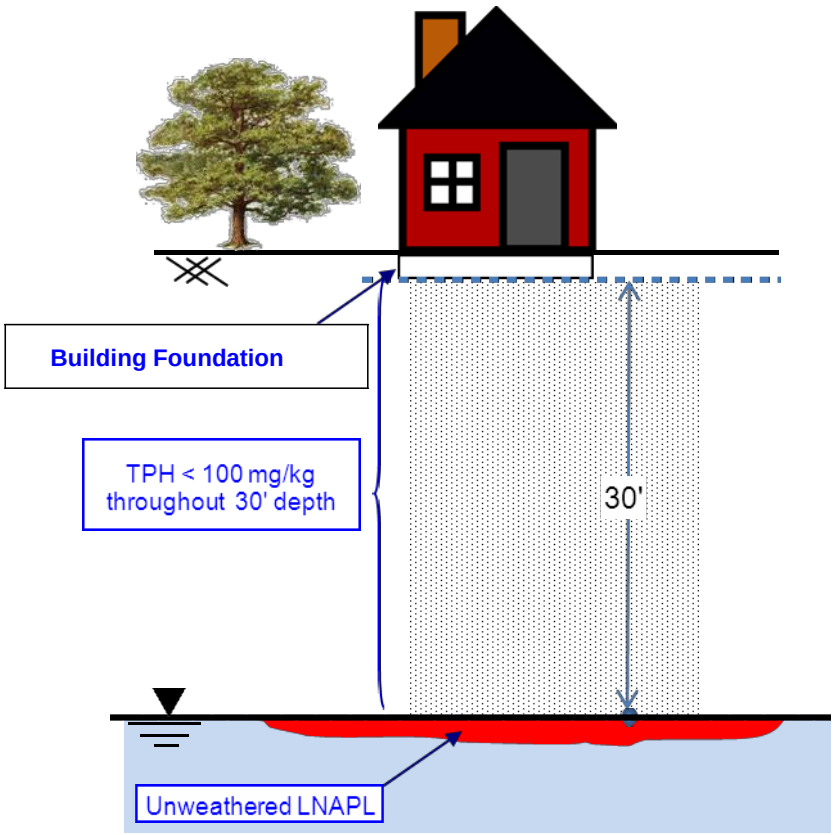
Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

SCENARIO 1 - UNWEATHERED LNAPL IN GROUNDWATER				
Do site specific conditions at the site satisfy all the characteristics of Scenario 1?	☐ Y	☐ N	☐ NE	☒ NA

Scenario 1
Existing Building or Potential Future Construction

LNAPL Characteristics:
Unweathered – petroleum product that has not been subjected to significant volatilization or solubilization, and therefore has not lost a significant portion of its volatile or soluble constituents (e.g., comparable to recently dispensed fuel)

Bioattenuation Zone Required Characteristics:
Minimum 30 foot vertical separation distance between the bottom of building foundations and LNAPL in groundwater, Total TPH concentrations in soil < 100 mg/kg



Is the LNAPL unweathered?	☐ Y	☐ N	☐ NE	☒ NA
Does the site have a continuous bioattenuation zone that provides a separation of at least 30 feet vertically between the LNAPL in groundwater and the foundation of existing buildings?; **-and-**	☐ Y	☐ N	☐ NE	☒ NA
Does the site have a continuous bioattenuation zone that provides a separation of at least 30 feet vertically between the LNAPL in groundwater and the foundation of potential buildings?; **-and-**	☐ Y	☐ N	☐ NE	☒ NA
Are total TPH concentrations in soil less than 100 mg/kg throughout the entire vertical extent of the 30 foot bioattenuation zone?	☐ Y	☐ N	☐ NE	☒ NA

Use Criteria e – Conceptual Site Model sheets to support answers

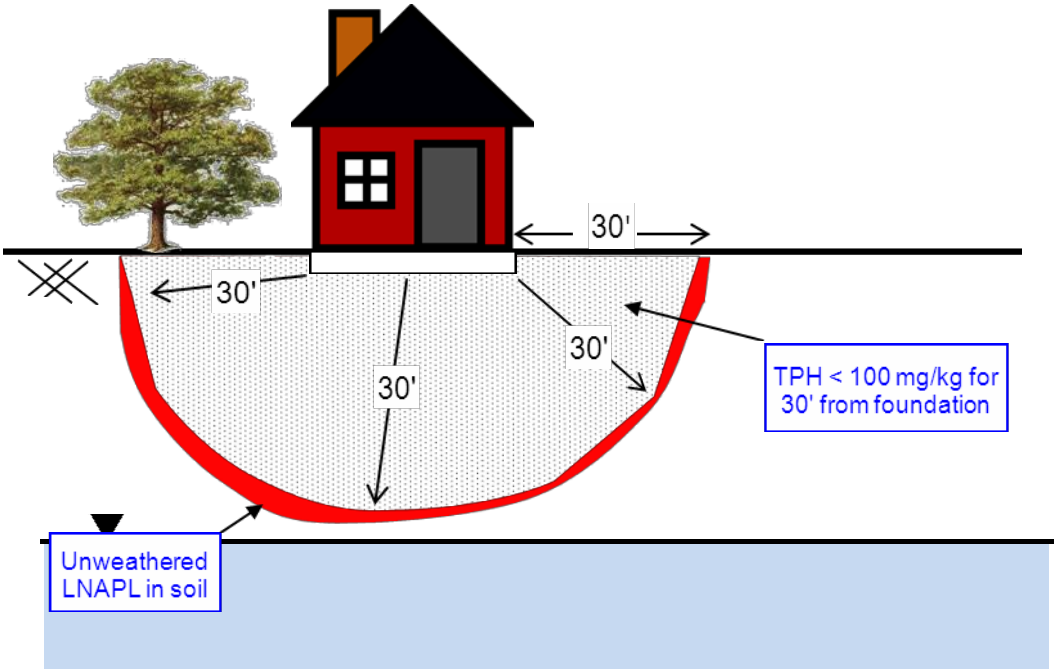
Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

SCENARIO 2 - UNWEATHERED LNAPL IN SOIL				
Do site specific conditions at the site satisfy all the characteristics of Scenario 2?	☐ Y	☐ N	☐ NE	☒ NA

Scenario 2
Existing Building or Potential Future Construction

LNAPL Characteristics:
Unweathered – petroleum product that has not been subjected to significant volatilization or solubilization, and therefore has not lost a significant portion of its volatile or soluble constituents (e.g., comparable to recently dispensed fuel)

Bioattenuation Zone Required Characteristics:
Minimum 30 foot vertical separation distance between the bottom of building foundations and LNAPL in soil,
Total TPH concentrations in Soil < 100 mg/kg



Is the LNAPL unweathered?	☐ Y	☐ N	☐ NE	☒ NA
Does the site have a continuous bioattenuation zone that provides a separation of at least 30 feet both laterally and vertically between the LNAPL in soil and the foundation of existing buildings?; **-and-**	☐ Y	☐ N	☐ NE	☒ NA
Does the site have a continuous bioattenuation zone that provides a separation of at least 30 feet both laterally and vertically between the LNAPL in soil and the foundation of potential buildings?; **-and-**	☐ Y	☐ N	☐ NE	☒ NA
Are total TPH concentrations in soil less than 100 mg/kg throughout the entire lateral and vertical extent of the 30 foot bioattenuation zone?	☐ Y	☐ N	☐ NE	☒ NA

Use Criteria e – Conceptual Site Model sheets to support answers

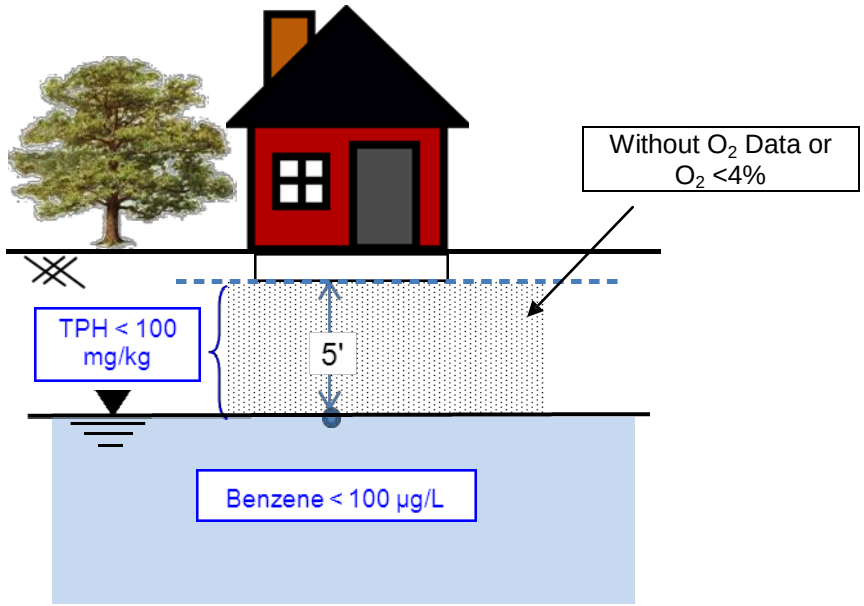
Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

SCENARIO 3 – LOW CONCENTRATION GROUNDWATER SCENARIO (FIGURE A)				
Does the Site Satisfy all of the Characteristics and Requirements of Scenario 3 Figure A?	☐ Y	☐ N	☐ NE	☒ NA

Figure A
Existing Building or Future Construction

Dissolved Phase Benzene Concentrations in Groundwater Requirements:
< 100 µg/L

Bioattenuation Zone Required Characteristics:
Minimum 5 Foot Vertical Separation Distance between Bottom of Building Foundations and Water Table,
No Soil Gas Oxygen Data or Measured Soil Gas Oxygen Concentrations< 4%,
Total TPH Concentrations in Soil < 100 mg/kg



Are maximum dissolved benzene concentrations in groundwater < 100 µg/L? **-and-**	☐ Y	☐ N	☐ NE	☒ NA
Is the bioattenuation zone a continuous zone that provides a separation of at least 5 feet vertically between the dissolved phase benzene and the foundation of existing buildings? **-and-**	☐ Y	☐ N	☐ NE	☒ NA
Is the bioattenuation zone a continuous zone that provides a separation of at least 5 feet vertically between the dissolved phase benzene and the foundation of potential buildings? **-and-**	☐ Y	☐ N	☐ NE	☒ NA
Has sufficient data been collected to determine that Total TPH (TPH-g and TPH-d combined) concentrations in soil are < 100 mg/kg throughout the entire depth of the 5 foot bioattenuation zone?	☐ Y	☐ N	☐ NE	☒ NA

Use Criteria e – Conceptual Site Model sheets to support answers

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

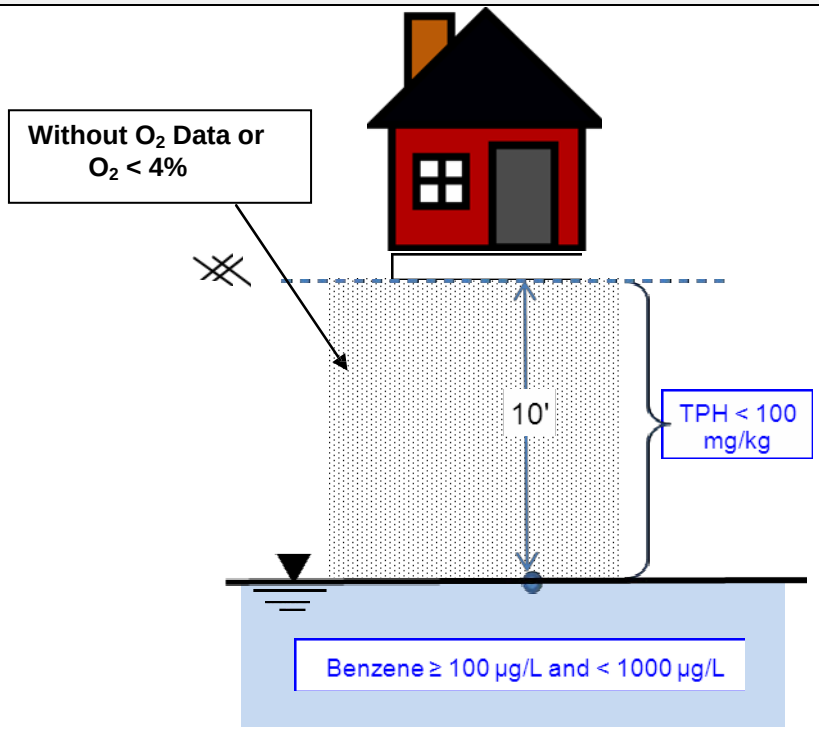
SCENARIO 3 – LOW CONCENTRATION GROUNDWATER SCENARIO (FIGURE B)

Does the Site Satisfy all of the Characteristics and Requirements of Scenario 3 - Figure B?	☐ Y	☐ N	☐ NE	☒ NA

Figure B
Existing Building or Future Construction

Dissolved Phase Benzene Concentrations in Groundwater Requirements:
≥ 100 µg/L but < 1,000 µg/L

Bioattenuation Zone Required Characteristics:
Minimum 5 Foot Vertical Separation Distance between Bottom of Building Foundations and Water Table,
Measured Soil Gas Oxygen Concentrations< 4%,
Total TPH Concentrations in Soil < 100 mg/kg



Are maximum dissolved benzene concentrations in groundwater ≥ 100 µg/L but < 1,000 µg/L?; **-and-**	☐ Y	☐ N	☐ NE	☒ NA
Is the bioattenuation zone a continuous zone that provides a separation of at least 10 feet vertically between the dissolved phase benzene and the foundation of existing **buildings**?; **-and-**	☐ Y	☐ N	☐ NE	☒ NA
Is the bioattenuation zone a continuous zone that provides a separation of at least 10 feet vertically between the dissolved phase benzene and the foundation of **potential buildings**?; **-and-**	☐ Y	☐ N	☐ NE	☒ NA
Has sufficient data been collected to determine that Total TPH (TPH-g and TPH-d combined) concentrations in soil are < 100 mg/kg throughout the entire depth of the 10 foot bioattenuation zone?	☐ Y	☐ N	☐ NE	☒ NA

Use Criteria e – Conceptual Site Model sheets to support answers

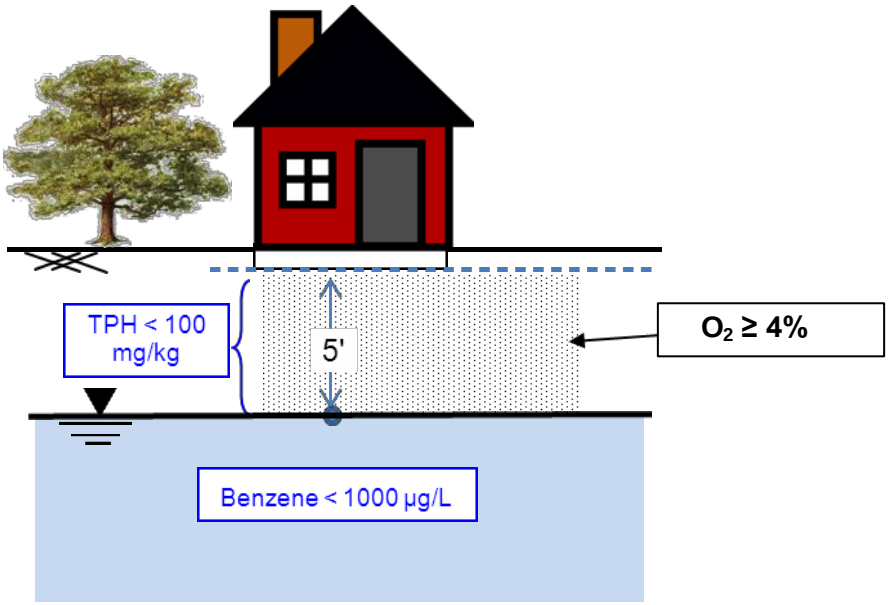
Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

SCENARIO 3 – LOW CONCENTRATION GROUNDWATER SCENARIO (FIGURE C)				
Does the Site Satisfy all of the Characteristics and Requirements of Scenario 3 - Figure C?	☐ Y	☐ N	☐ NE	☒ NA

Figure C
Existing Building or Future Construction

Dissolved Phase Benzene Concentrations in Groundwater Requirements:
< 1,000 µg/L

Bioattenuation Zone Required Characteristics:
Minimum 5 Foot Vertical Separation Distance between Bottom of Building Foundations and Water Table,
Measured Soil Gas Oxygen Concentrations ≥ 4%,
Total TPH Concentrations in Soil < 100 mg/kg



Are maximum dissolved benzene concentrations in groundwater ≥ 100 µg/L but < 1,000 µg/L?; **-and-**	☐ Y	☐ N	☐ NE	☒ NA
Is the bioattenuation zone a continuous zone that provides a separation of at least 10 feet vertically between the dissolved phase benzene and the foundation of existing buildings?; **-and-**	☐ Y	☐ N	☐ NE	☒ NA
Is the bioattenuation zone a continuous zone that provides a separation of at least 10 feet vertically between the dissolved phase benzene and the foundation of potential buildings?; **-and-**	☐ Y	☐ N	☐ NE	☒ NA
Has sufficient data been collected to determine that Total TPH (TPH-g and TPH-d combined) concentrations in soil are < 100 mg/kg throughout the entire depth of the 10 foot bioattenuation zone?	☐ Y	☐ N	☐ NE	☒ NA

Use Criteria e – Conceptual Site Model sheets to support answers

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

SCENARIO 4 – DIRECT MEASUREMENT OF SOIL GAS CONCENTRATIONS (WITH A BIOATTENUATION ZONE)				
Does the Site Satisfy all of the Characteristics and Requirements of Scenario 4 – With Bioattenuation Zone?	☑ Y	☐ N	☐ NE	☐ NA

Soil Gas Sampling – With Bioattenuation Zone
Existing Building or Future Construction

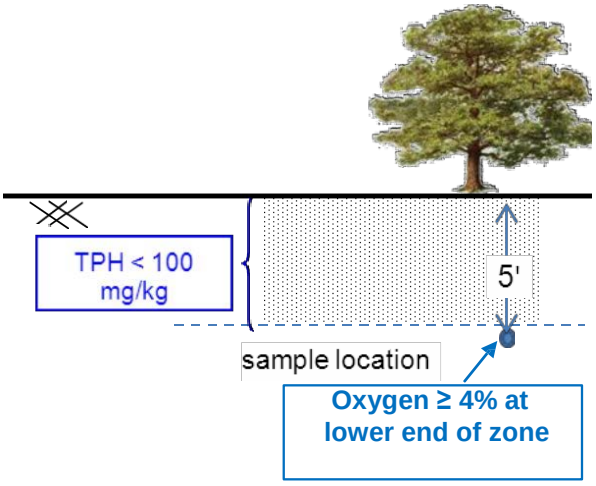
Bioattenuation Zone Required Characteristics:

Minimum 5 foot vertical feet of soil between the soil vapor measurement and the foundation of an existing building or ground surface of future construction;
Total TPH concentrations in soil < 100 mg/kg (measured in at least two depths within the five-foot zone);
Soil gas oxygen concentrations ≥ 4% at the bottom of the five-foot bioattenuation zone

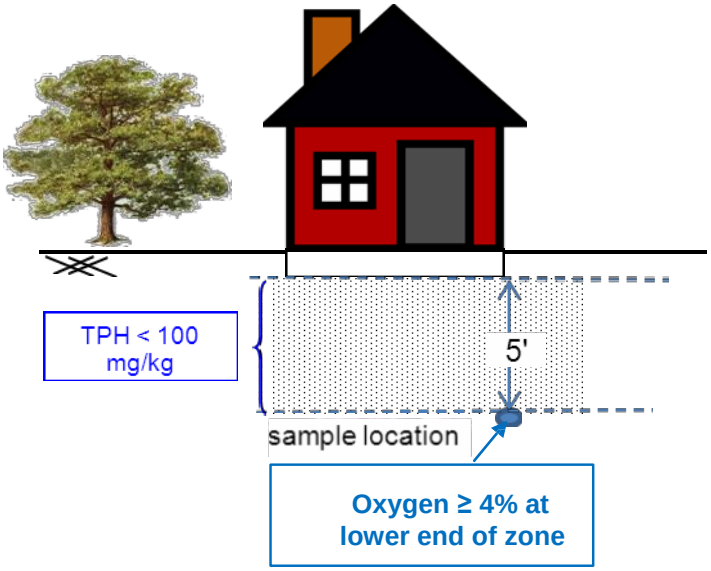
Soil Gas Sample Location Requirements:

Existing Buildings - At least five feet below the bottom of the building foundation
Future Construction - The soil gas sample shall be collected from at least five feet below ground surface

Existing Building



Future Construction



Are the required bioattenuation zone characteristics satisfied?	☐ **Y**	☐ **N**	☐ **NE**	☑ **NA**
Is there a minimum 5 foot vertical feet of soil between the soil vapor measurement and the foundation of existing buildings?	☐ Y	☐ N	☐ NE	☑ NA
Is there a minimum 5 foot vertical feet of soil between the soil vapor measurement and the ground surface of future construction?	☑ Y	☐ N	☐ NE	☐ NA
Has sufficient data been collected to determine that total TPH concentrations in soil are < 100 mg/kg (measured in at least two depths within the five-foot zone)?	☑ Y	☐ N	☐ NE	☐ NA
Has sufficient data been collected to determine that soil gas oxygen concentrations are ≥ 4% at the bottom of the five-foot bioattenuation zone?	☑ Y	☐ N	☐ NE	☐ NA

Use Criteria e – Conceptual Site Model sheets to support answers

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

SCENARIO 4 – DIRECT MEASUREMENT OF SOIL GAS CONCENTRATIONS (WITH A BIOATTENUATION ZONE)

If the required bioattenuation zone characteristics have been met then,

Have soil gas samples been collected in accordance with required protocols?	☒ **Y**	☐ **N**	☐ **NE**	☐ **NA**
For existing buildings, were soil gas samples collected from at least five feet below the bottom of building foundations?	☐ Y	☐ N	☐ NE	☒ NA
For sites where future construction is planned, were soil gas samples collected from at least five feet below ground surface within the footprints of future buildings?	☒ Y	☐ N	☐ NE	☐ NA
Were samples collected in accordance with the guidance provided in the CA LUFT Manual?	☒ Y	☐ N	☐ NE	☐ NA
Has sufficient data been collected to determine that soil gas concentrations for benzene, ethylbenzene, and napthalene are below the specified <u>residential screening levels</u>?	☒ **Y**	☐ **N**	☐ **NE**	☐ **NA**
Benzene < 85,000 µg/m^3	☒ Y	☐ N	☐ NE	☐ NA
Ethylbenzene < 1,100,000 µg/m^3	☒ Y	☐ N	☐ NE	☐ NA
Napthalene < 93,000 µg/m^3	☒ Y	☐ N	☐ NE	☐ NA
Has sufficient data been collected to determine that soil gas concentrations for benzene, ethylbenzene, and napthalene are below the specified <u>commercial screening levels</u>?	☒ **Y**	☐ **N**	☐ **NE**	☐ **NA**
Benzene < 280,000 µg/m^3	☒ Y	☐ N	☐ NE	☐ NA
Ethylbenzene < 3,600,000 µg/m^3	☒ Y	☐ N	☐ NE	☐ NA
Napthalene < 310,000 µg/m^3	☒ Y	☐ N	☐ NE	☐ NA

Use Criteria e – Conceptual Site Model sheets to support answers

If the required bioattenuation zone characteristics have not been satisfied then use Scenario 4 – No Bioattenuation Zone (pages vi-9 and vi-10)

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

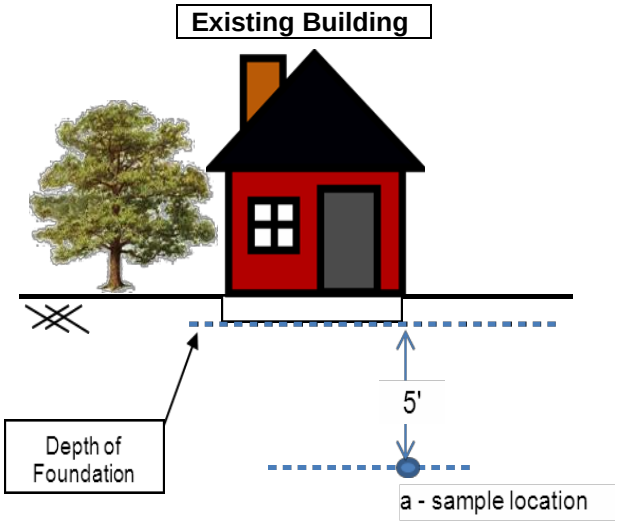
SCENARIO 4 – DIRECT MEASUREMENT OF SOIL GAS CONCENTRATIONS (NO BIOATTENUATION ZONE)

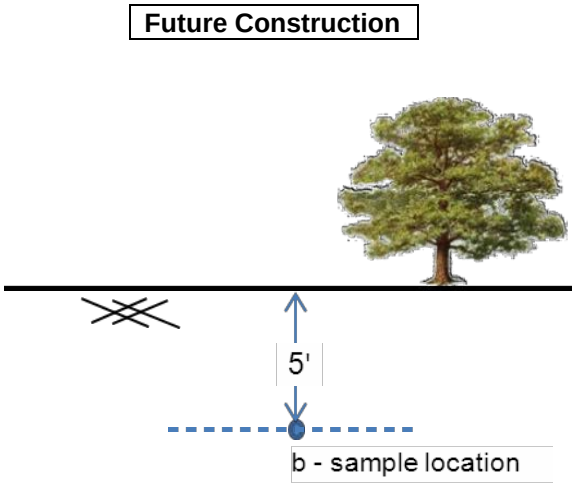
Does the Site Satisfy all of the Characteristics and Requirements of Scenario 4 – No Bioattenuation Zone?	☐ Y	☐ N	☐ NE	☒ NA

Soil Gas Sampling – No Bioattenuation Zone
Existing Building or Future Construction

Soil Gas Sample Location Requirements:

Existing Buildings – At least five feet below the bottom of the building foundation
Future Construction - The soil gas sample shall be collected from at least five feet below ground surface





Were appropriate protocols followed for collecting soil gas samples?	☐ **Y**	☐ **N**	☐ **NE**	☒ **NA**
For existing buildings, were soil gas samples collected from at least five feet below the bottom of building foundations?	☐ Y	☐ N	☐ NE	☒ NA
For sites where future construction is planned, were soil gas samples collected from at least five feet below ground surface within the footprints of future buildings?	☐ Y	☐ N	☐ NE	☒ NA
Were samples collected in accordance with the guidance provided in the CA LUFT Manual?	☐ Y	☐ N	☐ NE	☒ NA
Has sufficient data been collected to determine that soil gas concentrations for benzene, ethylbenzene, and napthalene are below the specified residential screening levels?	☐ **Y**	☐ **N**	☐ **NE**	☒ **NA**
Benzene < 85 µg/m^3	☐ Y	☐ N	☐ NE	☒ NA
Ethylbenzene < 1,100 µg/m^3	☐ Y	☐ N	☐ NE	☒ NA
Napthalene < 93 µg/m^3	☐ Y	☐ N	☐ NE	☒ NA
Has sufficient data been collected to determine that soil gas concentrations for benzene, ethylbenzene, and napthalene are below the specified commercial screening levels?	☐ **Y**	☐ **N**	☐ **NE**	☒ **NA**
Benzene < 280 µg/m^3	☐ Y	☐ N	☐ NE	☒ NA
Ethylbenzene < 3,600 µg/m^3	☐ Y	☐ N	☐ NE	☒ NA
Napthalene < 310 µg/m^3	☐ Y	☐ N	☐ NE	☒ NA

Use Criteria e – Conceptual Site Model sheets to support answers

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

SCENARIO 4 – DIRECT MEASUREMENT OF SOIL GAS CONCENTRATIONS (NO BIOATTENUATION ZONE)

For the no bioattenuation zone scenario, the screening criteria provided in the table on the preceding page are the same as the California Human Health Screening Levels (CHSSLs) with engineered fill below sub-slab.

If building crawl space air samples were collected instead of soil gas samples to evaluate vapor intrusion into buildings, then

Were appropriate protocols followed for collecting the crawl space air samples?	☐ **Y**	☐ **N**	☐ **NE**	☒ **NA**
Were samples collected in accordance with the guidance provided in *the CA LUFT Manual* and referenced documents including the DTSC's *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air*?	☐ Y	☐ N	☐ NE	☒ NA
Has sufficient data been collected to determine that crawl space air concentrations for benzene, ethylbenzene, and napthalene are below the appropriate residential screening levels (i.e., CHHSLs for Indoor Air)?	☐ **Y**	☐ **N**	☐ **NE**	☒ **NA**
Benzene < 0.084 µg/m^3	☐ Y	☐ N	☐ NE	☒ NA
Ethylbenzene – No screening number currently available	☐ Y	☐ N	☐ NE	☒ NA
Napthalene < 0.072 µg/m^3	☐ Y	☐ N	☐ NE	☒ NA
Has sufficient data been collected to determine that crawl space air concentrations for benzene, ethylbenzene, and napthalene are below the appropriate commercial screening levels (i.e., CHHSLs for Indoor Air)?	☐ **Y**	☐ **N**	☐ **NE**	☒ **NA**
Benzene < 0.141 µg/m^3	☐ Y	☐ N	☐ NE	☒ NA
Ethylbenzene – No screening number currently available	☐ Y	☐ N	☐ NE	☒ NA
Napthalene < 0.120 µg/m^3	☐ Y	☐ N	☐ NE	☒ NA

Use Criteria e – Conceptual Site Model sheets to support answers

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

Case Notes

Case File Document References:

AEI's Soil Vapor Investigation Workplan dated April 15, 2013
Source Removal Excavation and Additional Sampling Report - January 24, 2014
AEI's TCE Evaluation dated April 30, 2014

Technical References:

Case Notes:

Soil vapor sample analysis from three soil gas probes (VP-1 to VP-3) located immediately adjacent to the release area at a depth of approximately 5 feet bgs did not detect volatile gasoline constituents (TPH-g, MTBE, BTEX) during routine quarterly samping conducted between May 2012, and February 2013. It should be noted that PCE was also detected in monitoring points VP-1 to VP-3 at relatively low concentrations (up to 72 ug/m3), well below the ESL of 2,100 ug/m3 for PCE. Five additional soil vapor sampling points (SV-3 through SV-7) were installed to a depth of 5 feet bgs to further investigate vapor concentrations in the area of the proposed building at the site. The samples collected in April/May 2013 did not indicate that hydrocarbons were present at or above the laboratory detection limit. It should be noted that Nylaflo tubing used in these samples, which although an acceptable material for sampling hydrocarbons as recommended by the DTSC, has been known to adsorb naphthalene resulting in a lower result than what actually may be present. However, due to the lack of detections of naphthalene in any of the samples, the worst-case estimated concentrations of naphthalene using the most conservative adsorption factor based on the published data (88% adsorption, or factor of 8.3), are well below the ESL.

Additional soil vapor probes (SV-8 to SV-12) were installed in August 2013 to investigate the extent of VOCs in the northeast corner of the property and near DPE-5. Low concetrations of VOCs including BTEX, PCE and TCE were detected in soil gas samples from these probes, however all detections were well below their respective ESLs.

Following the October 2013 excavation activities, three addtional vapor probes (SV-13 to SV-15) were installed. A full round of vapor sampling completed in October 2013 did not indicate that hydrocarbons or VOCs were present above the ESLs. Samples collected from SV-4 and SV-13 in November 2013 confirmed these results.

These data suggest that the potential for vapor intrusion into future commercial structures is not significant. It should be noted that as an added measure of safety, the onsite building is being constructed with a Cupolex system which is designed to route any vapors from the ground around the building rather than into the building. Furthermore, downgradient groundwater concentrations are not elevated, so off-site vapor risks do not appear to be present.

While the site meets the LTCP guidelines for hydrocarbons, concern over vapor intrusion from the TCE detected in the groundwater may be warranted. Therefore, AEI performed an analysis of the TCE plume which determined that the extent of the plume was a minimum of approximately 187 feet from the nearest residential receptor and did not pose a significant risk for vapor intrusion to residential properties.

Case Notes

Case Notes (continued):

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

LOW THREAT CLOSURE POLICY
MEDIA SPECIFIC CRITERIA: DIRECT CONTACT AND OUTDOOR AIR EXPOSURE

Does the site qualify for an exemption from the media-specific criteria for Direct Contact and Outdoor Air Exposure? -OR-	☐ **Yes**	☒ **No**	☐ **NE**
Does the site meet the media-specific criteria for Direct Contact and Outdoor Air Exposure?	☒ **Yes**	☐ **No**	☐ **NE**

LTCP Statement: "This policy describes conditions where direct contact with contaminated soil or inhalation of contaminants volatized to outdoor air poses a low threat to human health. Release sites where human exposure may occur satisfy the media-specific criteria for direct contact and outdoor air exposure and shall be considered low-threat if they meet any of the following:

a. Maximum concentrations of petroleum constituents in soil are less than or equal to those listed in Table 1 for the specified depth below ground surface (bgs). The concentration limits for 0 to 5 feet bgs protect from ingestion of soil, dermal contact with soil, and inhalation of volatile soil emissions and inhalation of particulate emissions. The 5 to 10 feet bgs concentration limits protect from inhalation of volatile soil emissions. Both the 0 to 5 feet bgs concentration limits and the 5 to 10 feet bgs concentration limits for the appropriate site classification (Residential or Commercial/Industrial) shall be satisfied. In addition, if exposure to construction workers or utility trench workers is reasonably anticipated, the concentration limits for Utility Worker shall also be satisfied; or

b. Maximum concentration of petroleum constituents in soil are less than levels that a site specific risk assessment demonstrates will have no significant risk of adversely affecting human health; or

c. As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, the regulatory agency determines that the concentrations of petroleum constituents in soil will have no significant risk of adversely affecting human health."

Has adequate data been collected to demonstrate that the upper 10 feet of soil is free of petroleum contamination and therefore qualifies for the exemption?	☐ **Y**	☒ **N**	☐ **NE**	☐ **NA**
If the site does not qualify for the exemption, then does the site satisfy the media-specific criteria (a, b, or c) for direct contact and outdoor air exposure?	☒ **Y**	☐ **N**	☐ **NE**	☐ **NA**

a. Are maximum concentrations of petroleum constituents in soil less than or equal to those listed in Table 1 for the specified depth bgs? ***Use page dc-2 to support answer***	☒ Y	☐ N	☐ NE	☐ NA
b. Are the maximum concentrations of petroleum constituents in soil less than levels that a site specific risk assessment demonstrates will have no significant risk of adversely affecting human health?	☐ Y	☐ N	☐ NE	☒ NA
c. As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, has the regulatory agency determined that the concentrations of petroleum constituents in soil will have no significant risk of adversely affecting human health?	☐ Y	☐ N	☐ NE	☒ NA

Use General Criteria e – Conceptual Site Model sheets to support your answers

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

LOW THREAT CLOSURE POLICY
MEDIA SPECIFIC CRITERIA: DIRECT CONTACT AND OUTDOOR AIR EXPOSURE

Maximum Concentrations of Petroleum Constituents in Soil (Scenario a)

Table 1 – Concentrations of Petroleum Constituents in Soil That will Have No Significant Risk of Adversely Affecting Human Health

Chemical	Residential		Commercial/Industrial		Utility Worker
	0 to 5 ft bgs (mg/kg)	5 to 10 ft bgs (mg/kg)	0 to 5 ft bgs (mg/kg)	5 to 10 ft bgs (mg/kg)	0 to 10 ft bgs (mg/kg)
Benzene	**1.9**	**2.8**	**8.2**	**12**	**14**
Max Soil Conc[1]	<0.005	<2.5	<0.005	<2.5	<2.5
Ethylbenzene	**21**	**32**	**89**	**134**	**314**
Max Soil Conc[1]	<0.005	42	<0.005	42	42
Napthalene	**9.7**	**9.7**	**45**	**45**	**219**
Max Soil Conc[1]	<0.005	22	<0.005	22	22
PAH[2]	**0.063**	**NA**	**0.68**	**NA**	**4.5**
Max Soil Conc[1]	NA	NA	NA	NA	NA

Notes:

1. The maximum concentrations of petroleum constituents in soil should be compared to those listed in Table 1 (Technical Justification for Soil Screening Levels for Direct Contact and Outdoor Air Exposure Pathways, SWRCB)
2. Based on the seven carcinogenic poly-aromatic hydrocarbons (PAHs) as benzo(a)pyrene toxicity equivalent [BaPe]. Sampling and analysis for PAHs is only necessary where soil is affected by either waste oil or Bunker C oil.

Are all the concentration limits for all the appropriate site classification satisfied?	☐ **Y**	☒ **N**	☐ **NE**	☐ **NA**
Residential: 0 to 5 feet bgs	☐ Y	☐ N	☐ NE	☒ NA
Residential: 5 to 10 feet bgs	☐ Y	☐ N	☐ NE	☒ NA
Commercial/Industrial: 0 to 5 feet bgs	☒ Y	☐ N	☐ NE	☐ NA
Commercial/Industrial: 5 to 10 feet bgs	☒ Y	☐ N	☐ NE	☐ NA
Utility Worker: 0 to 10 feet bgs?	☒ Y	☐ N	☐ NE	☐ NA
Have the requirements for using the screening levels in Table 1 been satisfied (i.e., have the model assumptions presented in the SWRCB document entitled "*Technical Justification for Soil Screening Levels for Direct Contact and Outdoor Air Exposure Pathways*" been met?	☒ **Y**	☐ **N**	☐ **NE**	☐ **NA**
Is the area of impacted soil where a particular exposure occurs ≤ 82 feet by 82 feet?	☒ Y	☐ N	☐ NE	☐ NA
Is the receptor located at the downgradient edge for inhalation exposure?	☒ Y	☐ N	☐ NE	☐ NA
Is the wind speed < 2.25 meters per second (7.38 feet per second) on average?	☒ Y	☐ N	☐ NE	☐ NA
Are there different exposure scenarios than residential, commercial/industrial, utility worker) at the site?	☐ Y	☒ N	☐ NE	☐ NA

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

Direct Contact and Outdoor Air Exposure: Case Notes

Case File Reference Documents:

Technical References:

Source Removal Excavation and Additional Sampling Report - January 21, 2014 (Draft)

Case Notes:

Based on the nature of releases from USTs and hydraulic lifts, no shallow (0-5 feet) impacts are anticipated. Soil concentrations reported are based on 2012 and 2013 excavation confirmation sampling results.

Benzene, ethylbenzene, and naphthalene do not exceed the criteria listed in Table 1.

It should be noted that per LUFT requirements PAHs and metals should be collected around a waste oil area and this was not done. However, the area around the waste oil UST was excavated and properly disposed of offsite, so this requirement is not applicable.

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable

CONCEPTUAL SITE MODEL
AND DATA GAP IDENTIFICATION CHECKLIST

Well Survey

Are there existing water supply wells or other sources of water in the vicinity of the site?	**☐ Y**	**☒ N**	**☐ NE**	**☐ NA**
Has a recent well survey been conducted to identify all wells within 2,000 feet of the site? Name, author, and date of survey document: AEI's Subsurface Investigation and Well Installation Report: Section 9.0, March 30, 2012. AEI's CAP dated February 2, 2012; Section 3.6.	☒ Y	☐ N	☐ NE	☐ NA
Have Department of Water Resources records been reviewed?	☒ Y	☐ N	☐ NE	☐ NA
Have Zone 7 Water Agency records been reviewed?	☐ Y	☐ N	☐ NE	☒ NA
Have Alameda County Public Works records been reviewed?	☒ Y	☐ N	☐ NE	☐ NA
Has a background study of the historical land uses of the site and properties in the vicinity of the site been conducted to determine the existence of unrecorded/unknown (abandoned) wells?	☒ Y	☐ N	☐ NE	☐ NA
Has sufficient data been provided on all wells located within 2,000 feet of the site to identify sensitive receptors and determine potential contaminant migration pathways to and from the site?	**☒ Y**	**☐ N**	**☐ NE**	**☐ NA**
Has a figure (with rose diagram) identifying each well location been presented?	☒ Y	☐ N	☐ NE	☐ NA
Have DWR well logs (marked as confidential) been provided?	☐ Y	☒ N	☐ NE	☐ NA
Has a table with details of the well search been provided?	☒ Y	☐ N	☐ NE	☐ NA
Identification number (ID) corresponding to the well location on a figure?	☒ Y	☐ N	☐ NE	☐ NA
State Well ID, Well Owner ID?	☐ Y	☒ N	☐ NE	☐ NA
Well location address?	☒ Y	☐ N	☐ NE	☐ NA
Distance of well from the site?	☒ Y	☐ N	☐ NE	☐ NA
Direction of well from the site (downgradient, upgradient, crossgradient)?	☒ Y	☐ N	☐ NE	☐ NA
Type of well (monitoring, remediation, irrigation, water supply, industrial, livestock, dewatering, cathodic protection)?	☒ Y	☐ N	☐ NE	☐ NA
Well status (active, inactive, decommissioned, unrecorded, and/or abandoned)?	☒ Y	☐ N	☐ NE	☐ NA
Well installation date?	☒ Y	☐ N	☐ NE	☐ NA
Well decommissioned date?	☐ Y	☒ N	☐ NE	☐ NA
Total Well depth (feet bgs)?	☒ Y	☐ N	☐ NE	☐ NA
Well screen interval (feet bgs)?	☐ Y	☒ N	☐ NE	☐ NA
Well seal interval (feet bgs)?	☐ Y	☒ N	☐ NE	☐ NA
Well diameter (inches)?	☐ Y	☒ N	☐ NE	☐ NA
Are these supply wells or other sources of water used by property owners/tenants in the vicinity of the site?	**☐ Y**	**☒ N**	**☐ NE**	**☐ NA**
Has a neighborhood backyard domestic water/irrigation well assessment been conducted?	☐ Y	☒ N	☐ NE	☐ NA
Have wells been impacted by the release site?	☐ Y	☒ N	☐ NE	☐ NA
Have the wells been sampled for chemicals of concern associated with the release site and analytical results been provided?	☐ Y	☐ N	☐ NE	☒ NA
Have impacted wells been decommissioned and well destruction records provided?	☐ Y	☐ N	☐ NE	☒ NA

Key: ■ NE = Identified Data Gap - Needs Further Evaluation ■ NA = Not Applicable ■ UNK = Unknown

Site Well Construction Details

Well ID	Location (Onsite/Offsite, Downgradient, Upgradient or Cross Gradient)	Highest Measured Depth to Water		Lowest Measured Depth to Water		Screen Interval (ft bgs)	Total Depth	Submerged (% of events)	Dry (% of Events)	Status (Active, Abandoned, Lost)
		Date	Feet bgs	Date	Feet bgs					
MW-1	Downgradient	2-13	6.55	10-93	9.38	5-20	20	0	0	Destroyed
MW-2	Downgradient	2-13	7.17	10-94	9.59	5-20	20	0	0	Destroyed
MW-3	Downgradient	2-03	7.48	10-94	9.25	5-20	20	0	0	Destroyed
MW-4	Downgradient	6-11	8.52	11-12	10.04	8-23	23	0	0	Active
MW-5	Downgradient	2-03	7.22	10-94	8.92	7-22	22	0	0	Active
DPE-1	Downgradient	2-13	7.36	11-12	8.84	7-15	15	0	0	Destroyed
DPE-2	Upgradient	2-13	7.50	12-11	9.29	7-15	15	0	0	Destroyed
DPE-3	Source	5-12	6.75	1-12	8.98	7-15	15	25	0	Destroyed
DPE-4	Cross Gradient	2-13	8.37	11-12	9.23	8-17	17	0	0	Destroyed
DPE-5	Upgradient	2-13	7.72	11-12	9.94	8-18	18	50	0	Destroyed
DPE-6	Upgradient	2-13	7.01	11-12	8.71	8-18	18	50	0	Destroyed
DPE-8	Downgradient	2-13	6.69	11-12	8.31	8-18	18	50	0	Destroyed
DPE-9	Downgradient	2-13	7.27	11-12	8.38	8-18	18	50	0	Destroyed
DPE-10	Downgradient	2-13	7.64	11-12	8.51	8-18	18	50	0	Destroyed
DPE-11	Downgradient	2-13	7.68	11-12	8.74	8-18	18	66	0	Destroyed

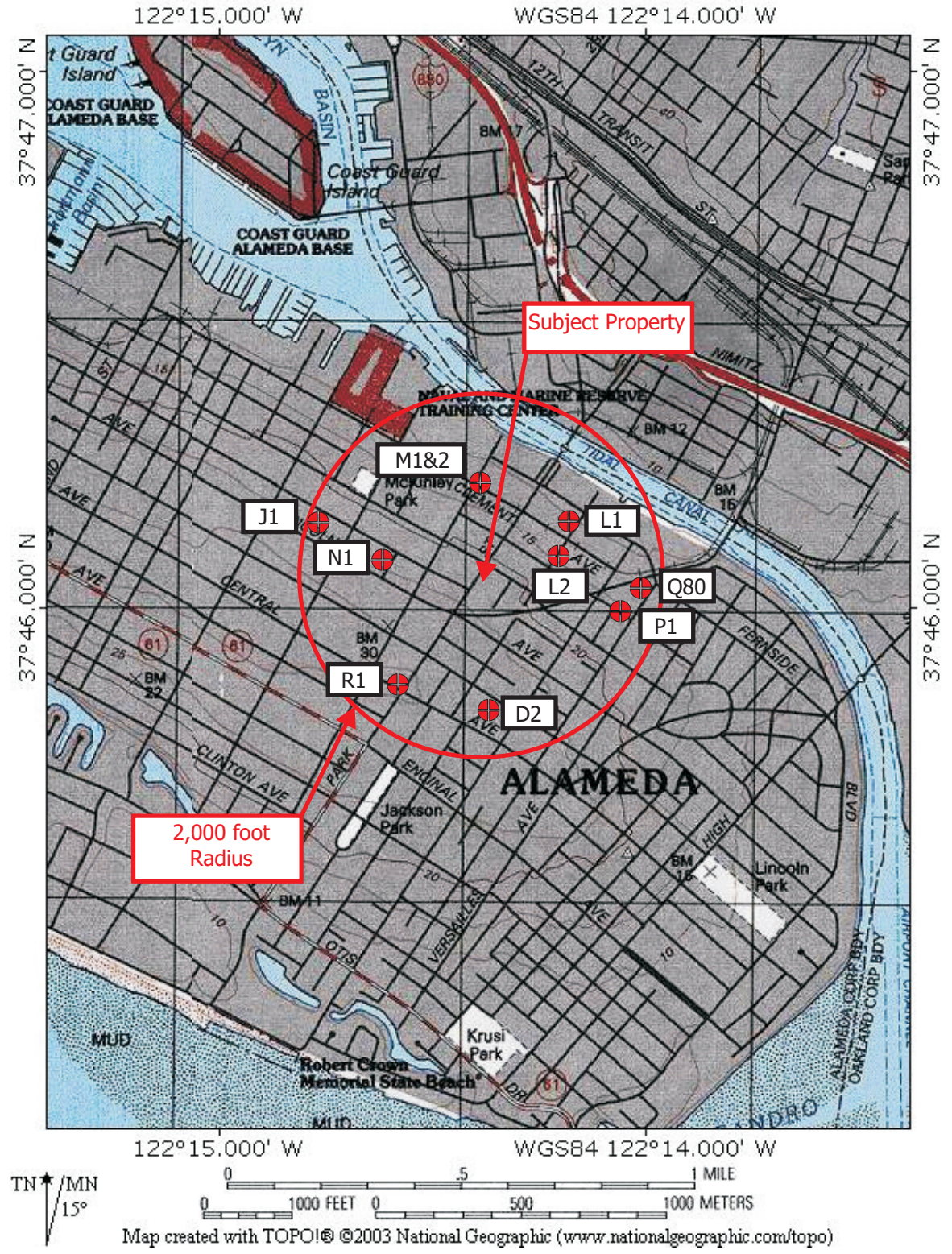
DWR WELL SEARCH TABLE
AEI Project No. 298931, 1620-1640 Park Street (Parcel A), Alameda, California

TOWNSHIP	RANGE	SECTION	WELL DESIGNATION	DIRECTION	DISTANCE (FEET)	ADDRESS	TOTAL (feet)	INDICATED USE	DRILL DATE
02 SOUTH	**03 WEST**	**7**							
02 SOUTH	03 WEST	7	M1	SOUTHEAST	4,600	3229 FERNSIDE BLVD	71	INDUSTRIAL	4/77
02 SOUTH	03 WEST	7	M2	SOUTHEAST	4,600	3229 FERNSIDE BLVD	80	INDUSTRIAL	4/77
02 SOUTH	03 WEST	7	P2	SOUTHEAST	1,100	2538 LINCOLN AVENUE	17	IRRIGATION	8/78
02 SOUTH	03 WEST	7	Q1	SOUTHEAST	2,100	1819 VERSAILLES AVENUE	22	IRRIGATION	10/77
02 SOUTH	03 WEST	7	Q1	SOUTHEAST	2,300	FERNSIDE BLVD AND VERSAILLES AVE	76	CATHODIC PROTECTION	11/76
02 SOUTH	03 WEST	7	Q8	SOUTHEAST	2,100	1708 VERSAILLES AVENUE	60	UNKNOWN	7/88
02 SOUTH	**04 WEST**	**12**							
02 SOUTH	04 WEST	12	D2	NORTHWEST	7,200	1521 BUENA VISTA	200	INDUSTRIAL	6/89
02 SOUTH	04 WEST	12	J1	NORTHWEST	2,000	2139 PACIFIC AVENUE	28.5	IRRIGATION	7/74
02 SOUTH	04 WEST	12	L1	NORTHWEST	4,400	1810 CENTRAL	67	IRRIGATION	7/77
02 SOUTH	04 WEST	12	M1	NORTHWEST	6,000	1401 F COTTAGE STREET	70	IRRIGATION	6/77
02 SOUTH	04 WEST	12	N1	SOUTHWEST	6,300	1622 DAYTON AVENUE	60	IRRIGATION	4/77
02 SOUTH	04 WEST	12	P1	SOUTHWEST	5,400	1016 GRAND STREET	60	IRRIGATION	2/77
02 SOUTH	04 WEST	12	P2	SOUTHWEST	5,400	1012 GRAND STREET	19	IRRIGATION	2/77
02 SOUTH	04 WEST	12	P3	NORTHWEST	3,700	1538 LAFAYETTE STREET	23	IRRIGATION	6/77
02 SOUTH	04 WEST	12	P4	SOUTHWEST	4,800	1820 SAN ANTONIO AVENUE	19	IRRIGATION	8/77
02 SOUTH	04 WEST	12	P6	SOUTHWEST	5,500	1000 GRAND STREET	70	IRRIGATION	9/77
02 SOUTH	04 WEST	12	Q2	SOUTHWEST	3,400	2037 ALAMEDA AVENUE	20	IRRIGATION	2/77
02 SOUTH	04 WEST	12	Q3	SOUTHWEST	3,700	2016 ALAMEDA AVENUE	50	IRRIGATION	7/77
02 SOUTH	04 WEST	12	Q4	SOUTHWEST	3,200	1215 WILLOW STREET	21.5	IRRIGATION	3/77
02 SOUTH	04 WEST	12	R2	SOUTHWEST	2,800	2121 ALAMEDA AVENUE	20	IRRIGATION	2/77
02 SOUTH	04 WEST	12	R3	SOUTHWEST	3,000	2120 ALAMEDA AVENUE	20	IRRIGATION	2/77
02 SOUTH	04 WEST	12	R4	SOUTHWEST	3,800	2060 SAN ANTONIO AVENUE	30	IRRIGATION	5/77
02 SOUTH	**04 WEST**	**13**							
-- NO RECORDS --									
02 SOUTH	**04 WEST**	**18**							
02 SOUTH	03 WEST	18	B1	SOUTHEAST	2,500	2928 NORTHWOOD DRIVE	55	IRRIGATION	5/77
02 SOUTH	03 WEST	18	B3	SOUTHEAST	2,800	2936 GIBBONS DRIVE	40	IRRIGATION	8/77
02 SOUTH	03 WEST	18	D1	SOUTHWEST	2,200	2518 CHESTER STREET	20	IRRIGATION	5/77
02 SOUTH	03 WEST	18	F1	SOUTHEAST	2,715	2806 VAN BUREN STREET	20	--	5/77
02 SOUTH	03 WEST	18	J1	SOUTHEAST	6,000	1522 EASTSHORE DRIVE	17	IRRIGATION	5/77
02 SOUTH	03 WEST	18	M2	SOUTHWEST	4,000	1101 COLLEGE AVENUE	40	IRRIGATION	6/88
02 SOUTH	03 WEST	18	N3	SOUTHWEST	5,000	2812 OTIS DRIVE	40	IRRIGATION	10/77
02 SOUTH	03 WEST	18	P1	SOUTHEAST	5,200	1033 POST STREET	50	IRRIGATION	--

NOTES:
- Department of Water Resources (DWR) records provided on 1/30/2012.
- Wells associated with groundwater monitoring or remediation were excluded.
- Wells which were unidentifiable were excluded.

ACDPW Well Search Table
AEI Project No. 298931, 1620-1640 Park Street (Parcel A), Alameda, California

Well Designation	Township / Range	Section, Parcel and Number	Direction	Distance (feet)	Address	Total Depth (feet)	Reported Well Use	Drill Date
L1	2S/3W	7L1	Northeast	1,350	1915 EVERETT ST	90	Abandoned	Unknown
P1	2S/3W	7P1	East	1,750	2623 EAGLE AVE	120	Cathodic Protection	6/76
Q80	2S/3W	7Q80	East	1,900	1823 PEARL ST	11	Unknown	10/96
D2	2S/3W	18D2	South	1,400	EVERETT & ALAMEDA	120	Cathodic Protection	7/76
R1	2S/4W	12R1	Southwest	1,400	CENTRAL & OAK ST	325	Domestic	Unknown
M1	2S/3W	7M1	North	1,200	2307 CLEMENT AVE	72	Industrial	4/77
M2	2S/3W	7M2	North	1,200	2307 CLEMENT AVE	82	Industrial	4/77
L2	2S/3W	7L2	East	1,100	1819 EVERETT ST	Unknown	Irrigation	/06
N1	2S/3W	7N1	West	1,000	2235 LINCOLN AVE	206	Irrigation	/16
J1	2S/4W	12J1	West	1,950	2138 PACIFIC AVE	29	Irrigation	8/77



WELL SEARCH LOCATION MAP

1620-1640 Park Street, Alameda, California

FIGURE 9

Project Number: 298931

AEI Consultants

Conceptual Site Model - Updated April 2014
Former Good Chevrolet
1630 Park Street - Parcel B
Alameda, CA

SCM Element	SCM Sub-Element	Description	Figures & Tables Reference	Data Gap	How to Address Data Gap
Geology & Hydrogeology	Regional	The site is located on Alameda Island. The near surface sediments of the area are mapped as Holocene and Pleistocene Merritt Sands (Qms) deposits (Helley, et al). Depth to bedrock is estimated at 300 to 800 feet below land surface (Norfleet Consultants, 1998). According to information obtained from the U.S Geological Survey (USGS), the site is located at between 20 and 25 feet above mean sea level (amsl) with the local topography sloping gently to the northeast.	n/a	None	n/a
	Site	**Geology:** Based on the logs of soil borings drilled at the site by AEI, sediments across the site are fairly consistent; consisting primarily of poorly graded fine to medium sand with varying clay and silt content to a depth of at least 25 feet bgs, the maximum depth explored. Logs of borings for remediation wells installed in November 2011, and observations during the October 2012 excavation of the former UST-hold and hydraulic lifts were consistent with these prior observations. **Hydrology:** During the drilling conducted by AEI in 2011-12, groundwater was first observed in the temporary direct push borings at depths of approximately 7.5 to 12 feet bgs and stabilized at between approximately 7.5 to 8.5 feet bgs. The depth to water in the groundwater monitoring wells has generally ranged from approximately 6.55 to 10.19 feet bgs since the wells were installed. Based on the groundwater monitoring conducted at the site, groundwater flows fairly consistently in a northwesterly direction at an approximate hydraulic gradient of $1x10^{-2}$ to $2x10^{-2}$ ft/ft. and exists as an unconfined aquifer. Based upon observations made during excavations at the former UST-hold and hydraulic lifts, transitivity (T) and hydraulic conductivity (K) appear to be low. Excavations up to 15 feet bgs which were left open for several hours did not produce appreciable volumes water. Additional evidence for low T and K values is the small size of the hydrocarbon plume which has reached an apparent length of approximately 160 feet from the source since the conservative release date of 1986 (26 years).	Figures 5 and 6; Tables 1 and 11; Boring Logs.	None	n/a
Surface Water Bodies		The nearest surface water body is the tidal canal located approximately 1500 to 2000 feet to the northeast.	Figure 1	None	n/a
Nearby Wells		In January 2012, a 2,000-foot radius well search was requested and received from the Alameda County Department of Public Works (ACDPW) and the Department of Water Resources (DWR). The results of the well search were reviewed and wells which appeared to be associated with monitoring or remediation at other sites or soil borings were excluded from the review. According to the results of the DWR well search, two (2) wells are located within 2,000 feet of the site. One well was located approximately 1,100 feet to the southeast (upgradient) and one well was located approximately 2,000 feet to the northwest (downgradient). Both wells were reportedly used for irrigation and installed to a depth of less than 30 feet bgs. Based on the 2008 groundwater sampling from the soil borings and cumulative groundwater monitoring data, it appears that the length of the plume at the site is no more than approximately 160 feet in length. None of the wells noted in this well search are located within the expected plume length for this site. As such, none of the listed wells are expected to be impacted by the hydrocarbons at the site. According to the results of the ACDPW well search, ten (10) wells are located within 2,000 feet of the site. The nearest well was located approximately 1,000 feet to the west (cross-gradient). Each of the remaining wells were located at a distance further than 1,000 feet and none of the wells were located in the immediate downgradient direction (northwest). None of the wells noted in this well search are located within the expected plume length for this site. As such, none of the listed wells are expected to be impacted by the hydrocarbons at the site.	February 3, 2012 Corrective Action Plan: Section 3.6 March 30, 2012 Subsurface Investigation and Well Installation Report: Section 9.0.	None	n/a

Conceptual Site Model - Updated April 2014
Former Good Chevrolet
1630 Park Street - Parcel B
Alameda, CA

SCM Element	SCM Sub-Element	Description	Figures & Tables Reference	Data Gap	How to Address Data Gap
Potential Source(s)	On Site	**Former USTs:** One 300-gallon waste-oil underground storage tank (UST) and one 500-gallon gasoline UST were removed from adjacent to the northern side of the building in 1986 at which time a release of petroleum hydrocarbons, primarily gasoline, was discovered. Following excavation activities in October 2012, it was determined that the secondary source associated with these USTs had been removed. **Hydraulic Lifts & Repair Area:** A total of 6 former underground hydraulic lifts were identified within the building. Investigation of these lift locations and associated drain features in July 2011 identified releases of hydraulic oil range hydrocarbons near five (5) of the lifts in the northeastern end of the building. Source was removed from the area during excavation activities in October 2012 and October 2013. **Former Paint Booth**: A paint booth was identified in a 1950 Sanborn map. Soil boring AEI-27 was drilled in this location in Jan. 2012; no significant release was identified.	See Previous Reports	None	n/a
Potential Source(s)	Off Site	**Former USTs (Parcel A):** One 10,000-gallon gasoline UST, one 4,000-gallon gasoline UST, and one 550-gallon waste oil UST at the eastern portion of Parcel A were removed in November 2011. Based on soil and groundwater analytical data from samples collected in and near the UST at the time of removal, no significant release was identified and these former USTs are not a source of impact to the subject property. **Hydraulic Lifts & Repair Area (Parcel A)**: A total of 4 former underground hydraulic lifts were identified within the building portion located on Parcel A. Investigation of these lift locations and associated drain features in July 2011 identified no significant releases of hydraulic oil near lifts on Parcel A. **Potential Former USTs (Southwestern portion Parcel A):** Historical Sanborn maps indicate that a gas and oil area was present in the southwestern portion of the site. A geophysical survey completed in July 2011 did not indicate the presence of the USTs, however construction activities in October 2013 discovered 1 400-gallon and 1 600-gallon UST in the southwestern portion of the site. Hydrocarbon impacted soil was discovered during the UST removal activities and subsequently removed. The impact was well delineated in all directions except the west (towards Park Street). Furthermore, three borings advanced in July 2011 (AEI-17 to AEI-19) were unknowingly placed to the north and south of the discovered USTs and significantly elevated concentrations of hydrocarbons were not detected in the samples collected. Based on this data, while additional contamination may be present in Park Street (which is being investigated under site activities associated with Parcel A), the contamination is not impacting the subject site. **1650 Park St:** According to records on file with the ACEH, one 100-gallon waste oil UST and one 550-gallon gasoline UST were removed from the property in 1995 and 233 tons of soil were excavated and disposed at BFI Landfill in Livermore, California. Following soil removal and groundwater sampling, ACEH granted case closure in 2001. Based on onsite groundwater flow direction and case closure status of 1650 Park St, this site is not a source of impact to the subject site. **Other nearby LUST Cases:** Several nearby LUST cases are identified on GeoTracker, including 1541 Park St, 1700 Park St, and 1701 Park St. Based on documented groundwater flow direction at the site, regulatory status of these cases, and/or the configuration of their plumes, these sites do not appear to be source of impact to the subject site.	GeoTracker ACEH website	None	n/a

Conceptual Site Model - Updated April 2014
Former Good Chevrolet
1630 Park Street - Parcel B
Alameda, CA

SCM Element	SCM Sub-Element	Description	Figures & Tables Reference	Data Gap	How to Address Data Gap
Release Occurrence	Gasoline UST	The release of TPH-g, BTEX, and other gasoline constituents originated from the former 500 gallon gasoline UST system removed in 1986 from near the northern side of the existing building. The exact cause of the release is not known, though typically such releases occur from failures of the UST itself or the associated piping and pump system.	See Previous Reports	None	n/a
	Waste-Oil UST	According to a report prepared by Groundwater Technology in April 1987, the 300-gallon waste oil tank was removed in 1986 and a soil sample collected from the waste oil UST tank pit at a depth 8 feet bgs contained 57 ppm TPH-mo. No further sampling for TPH-mo was performed during the investigation that followed in 1987 nor does it appear that ACEH requested further investigation of the waste oil UST at that time. TPH-mo, which was added to the analytical suite in the May 2012 groundwater monitoring, was not detected in any of the wells (refer to the June 11, 2012 Groundwater Monitoring Report). This information indicates that although the release from that waste oil UST was not significant, VOCs associated with the waste oil UST have been found in the soil vapor and groundwater at relatively low concentrations. Confirmation soil samples collected during excavation of the former UST-hold in October 2012, showed non-detectable concentrations of TPH-mo in the sidewalls and bottom samples. This information further indicates that a release from that waste oil UST was not significant.	Groundwater Technology, Inc., April 1987; AEI, June 11, 2012 Groundwater Monitoring Report.	None	n/a
	Hydraulic Lifts	The source of the heavier range hydrocarbons detected in samples collected within the former building appear to be from several of the five former hydraulic lifts at the northern end of the building. Again, the timing, duration and volume of the oil release are unknown. Based on confirmation sampling at the former UST-hold, it does not appear that the former waste-oil UST contributed to the heavier range petroleum detected within the former building.	See Previous Reports	None	n/a
Constituents of Concern		The primary contaminants of concern are gasoline and gasoline constituents [TPH-g, benzene, toluene, ethylbenzene, and xylenes (BTEX)] from the gasoline UST release. Naphthalene has been sampled for in the groundwater wells and is present at relatively low concentrations near the center of the plume, but was not present above the ESLs in downgradient wells MW-4 or MW-5. MTBE has not been detected during recent sample analyses nor have significant concentrations of fuel oxygenates been detected. VOCs, particularly PCE and TCE, have been detected in the soil vapor and groundwater at relatively low concentrations (below the aquatic receptor ESL). The aquatic receptor ESL for groundwater is used as the most likely exposure scenarios given the presence of the tidal canal. PCE has not been detected in the soil vapor above the commercial ESL and TCE has not been detected in the soil vapor above the residential ESL. Heavier hydrocarbons (reported as TPH-d and TPH-mo) have been detected in the area of the hydraulic lifts. No PCBs were detected in samples from near the lifts and no VOCs were detected in samples near the paint booth or drain features within the repair shop.	Tables 2, 3, 4, 5 (soil); Tables 6, 7, 8, 9 (water).	None	n/a (see above for discussion of waste-oil UST constituents)

Conceptual Site Model - Updated April 2014
Former Good Chevrolet
1630 Park Street - Parcel B
Alameda, CA

SCM Element	SCM Sub-Element	Description	Figures & Tables Reference	Data Gap	How to Address Data Gap
Nature and Extent of Impacts	Impacts in Soil	Prior to interim remedial efforts, gasoline impacted soil was centered on the former UST and extended laterally in each direction, primarily to the north-northwest toward Park Street. The zone of impact was thickest at the UST pit and thins with distance from the pit. Examples include: DPE-1 located adjacent to and down gradient of the pit with approximately 5 feet of impact; AEI-28 located 45 feet west and down/cross gradient of the pit with approximately 2.5 feet of impact; and AEI-24 located 45 south up-cross gradient of the pit with no impacts. To the east, south, and west, impacted soil appears to extend approximately 20 to 50 feet from the former UST hold and approximately 100 feet to the north. It appears that the gasoline constituents travelled vertically from its source (the UST) then spread laterally along the groundwater surface. The lateral extent of gasoline impacted soil is reasonably well defined in each direction. Based on observations and excavation confirmation samples collected during October 2012 and October 2013 excavation of the former UST-hold and the hydraulic lifts, it appears that the bulk of gasoline impacts to soil have been removed in the core of the plume near the former UST. Oil impacted soil was identified adjacent to several former lifts in the northeastern corner of the former building. The lateral and vertical extent of oil impacted soil has been defined in all locations by past investigations and in general was located in areas of gasoline impact. With the completion of excavation activities in 2012 and 2013, the majority of oil-impacted soil has been removed. Vertically, the top of the impacted zone begins at approximately 7 to 8 feet bgs and ends between approximately 12 to 14 feet bgs. Figures 3 and 4 show the approximate extent of vertical impacts. The zone of impact is limited to approximately 4 to 8 feet in thickness, which corresponds to just above the water table (capillary fringe) to several feet below the average water table. Based on observations and excavation confirmation samples collected during October 2012 and October 2013 excavations of the former UST-hold and the hydraulic lifts, the majority of oil impacts to soil have been removed in the vicinity of the northeast corner of the former building. A small amount of soil impacted with a mixture of oil and gasoline remains in the vicinity of the former lift near DPE-6 and to the north of former DPE-2.	Figures 4, 6, and 7; Tables 2, 3, 4 and 5 Boring Logs	None	n/a
	Impacts in Groundwater	The dissolved phase gasoline-range plume is also centered on the former UST hold and spreads generally in a northwesterly direction. The extent of the gasoline-range impacts in groundwater have been defined to the south and southeast, as demonstrated by grab groundwater samples collected in January 2012, from borings AEI-24, AEI-25 and AEI-26 and to the east of the former tank pit as demonstrated by grab groundwater samples collected from borings GP3 (April 2008) and AEI-27 in (January 2012) (Tables 6 to 8). Gasoline-range groundwater impacts are also well defined to the northwest as demonstrated by analysis of groundwater samples collected from monitoring wells MW-4 and MW-5 and historical locations GP-18, GP-19, and GP-20 and to the west by groundwater samples collected from DPE-4 (Table 9). Recent sampling for VOCs in groundwater has shown low concentrations of PCE and TCE in the groundwater. Down-gradient wells MW-4 and MW-5 were reported to contain PCE and TCE up to 8.3 ug/L and 16 ug/L, respectively. These concentrations are very close to MCLs, and well below the aquatic receptor ESL of 120 ug/L for PCE and 360 ug/L for TCE. A TCE evaluation was performed to determine if the dissolved plume resulted in a potential vapor intrusion concern for residences in the area. Based on the evaluation, the dissolved TCE plume is expected to attenuate to below the ESL approximately 187 before reaching the nearest down-gradient residence. Therefore, the dissolved TCE plume is not expected to be a concern for vapor intrusion at the down-gradient residences.	Figure 8; Tables 6, 7, 8, and 9. TCE Evaluation report dated April 30, 2014	None	n/a

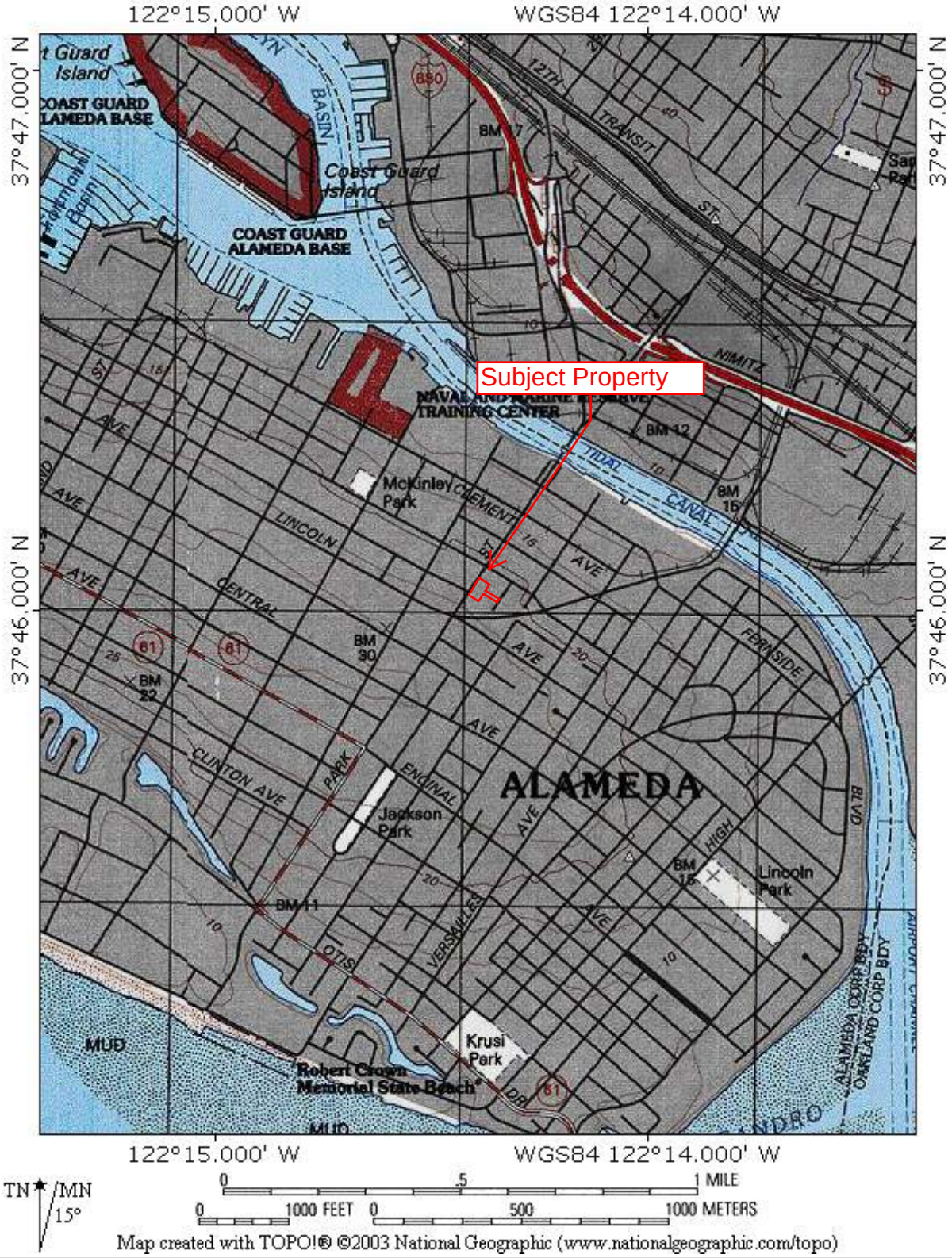
Conceptual Site Model - Updated April 2014
Former Good Chevrolet
1630 Park Street - Parcel B
Alameda, CA

SCM Element	SCM Sub-Element	Description	Figures & Tables Reference	Data Gap	How to Address Data Gap
	Impacts in Vapor Phase	Soil vapor sample analysis from three soil gas probes (VP-1 to VP-3) located immediately adjacent to the release area at a depth of approximately 5 feet bgs did not detect volatile gasoline constituents (TPH-g, MTBE, BTEX) during routine quarterly sampling conducted between May 2012, and February 2013. It should be noted that PCE was also detected in monitoring points VP-1 to VP-3 at relatively low concentrations (up to 72 ug/m3), well below the ESL of 2,100 ug/m3 for PCE. Five additional soil vapor sampling points (SV-3 through SV-7) were installed to a depth of 5 feet bgs to further investigate vapor concentrations in the area of the proposed building at the site. The samples collected in April/May 2013 did not indicate that hydrocarbons were present at or above the laboratory detection limit. It should be noted that Nylaflo tubing used in these samples, which although an acceptable material for sampling hydrocarbons as recommended by the DTSC, has been known to adsorb naphthalene resulting in a lower result than what actually may be present. However, due to the lack of detections of naphthalene in any of the samples, the worst-case estimated concentrations of naphthalene using a conservative adsorption factor based on the published data, are well below the ESL. Additional soil vapor probes (SV-8 to SV-12) were installed in August 2013 to investigate the extent of VOCs in the northeast corner of the property and near DPE-5. Low concentrations of VOCs including BTEX, PCE and TCE were detected in soil gas samples from these probes, however with the exception of benzene and ethylbenzene in SV-11 and PCE in SV-10 and SV-11, all detections were well below their respective ESLs. Soil around SV-10 and SV-11 was subsequently removed during 2013 excavation activities. Following the October 2013 excavation activities, three additional vapor probes (SV-13 to SV-15) were installed. A full round of vapor sampling completed in October 2013 did not indicate that hydrocarbons or VOCs were present above the ESLs. Samples collected from SV-4 and SV-13 in November 2013 confirmed these results. These data suggest that the potential for vapor intrusion into future commercial structures is not significant. Furthermore, downgradient groundwater concentrations are not elevated, so off-site vapor intrusion potential do not appear to be present. Refer to the TCE evaluation described above for additional details regarding the dissolved VOC plume.	Figure 5; Table 10	None	n/a

Conceptual Site Model - Updated April 2014
Former Good Chevrolet
1630 Park Street - Parcel B
Alameda, CA

SCM Element	SCM Sub-Element	Description	Figures & Tables Reference	Data Gap	How to Address Data Gap
Migration Pathways	Preferential Pathways / Conduits	A conduit study was conducted for the major underground utilities near the site (See Subsurface Investigation and Well Installation Report, 3/30/12) and a previous but incomplete study was provided in a correspondence dated June 6, 2008 from Blymyer Engineers, Inc. Information regarding the utilities was obtained from multiple sources. With the exception of the sanitary sewer in the center of Park St, all other underground utilities (water, gas, and electric) did not intersect the water table and are not preferential conduits to dissolved phase plume migration. All existing onsite utilities have been recently removed or will be removed prior to development. Information about the sanitary sewer lines was provided by the APWD. The maps provided by the APWD indicate that a 10-inch sanitary sewer line runs along the middle of Park Street and that the line is between 10.3 and 11.3 feet deep. The depth to water in the groundwater monitoring wells has generally ranged from approximately 6.5 to 10 feet bgs. As such, it appears that the 10-inch sanitary sewer line intersects groundwater near the site. However, during recent construction activities at the site the sewer line within Park Street was exposed. Based on construction foreman observations and pictures taken, the sewer line within Park Street was backfilled with native sand; therefore, a preferential pathway associated with this utility line is not considered likely. New utilities proposed at the site (Figure 5) will not be installed to depths at or below groundwater, with the exception of the sanitary sewer line which may potentially be installed below groundwater. However, due to the permeable sand present at the site, newly installed utility lines are not expected to create a preferential pathway.	March 30, 2012 Subsurface Investigation and Well Installation Report: Section 8.0; Figure 6	None	n/a
Potential Receptors & Risks	On Site	Potable water is and will be provided by municipal sources for the foreseeable future, therefore direct contact with groundwater is not considered. Potential receptors at the site could include: -future construction workers via direct contact with soil or groundwater. A Site Management Plan which addresses how to deal with the potential contact of hydrocarbons or VOCs will be implemented during future construction activities at the site.	n/a	None	n/a
	Off Site	None identified.	n/a	None	n/a

FIGURES



SITE LOCATION MAP

1600-1650 Park Street Alameda, California 94501

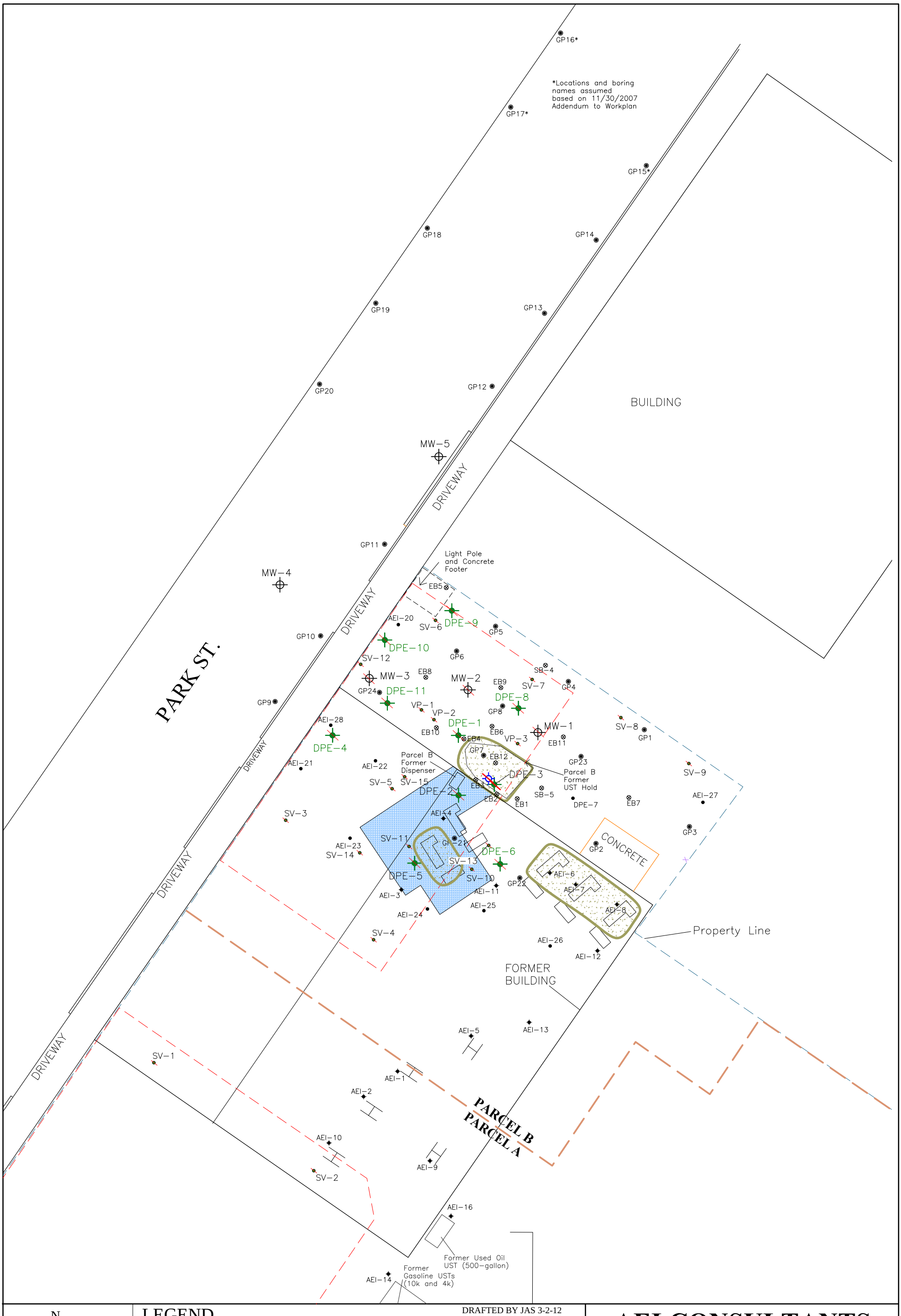
N

FIGURE 1

Source: USGS

Project Number: 298931

AEI Consultants



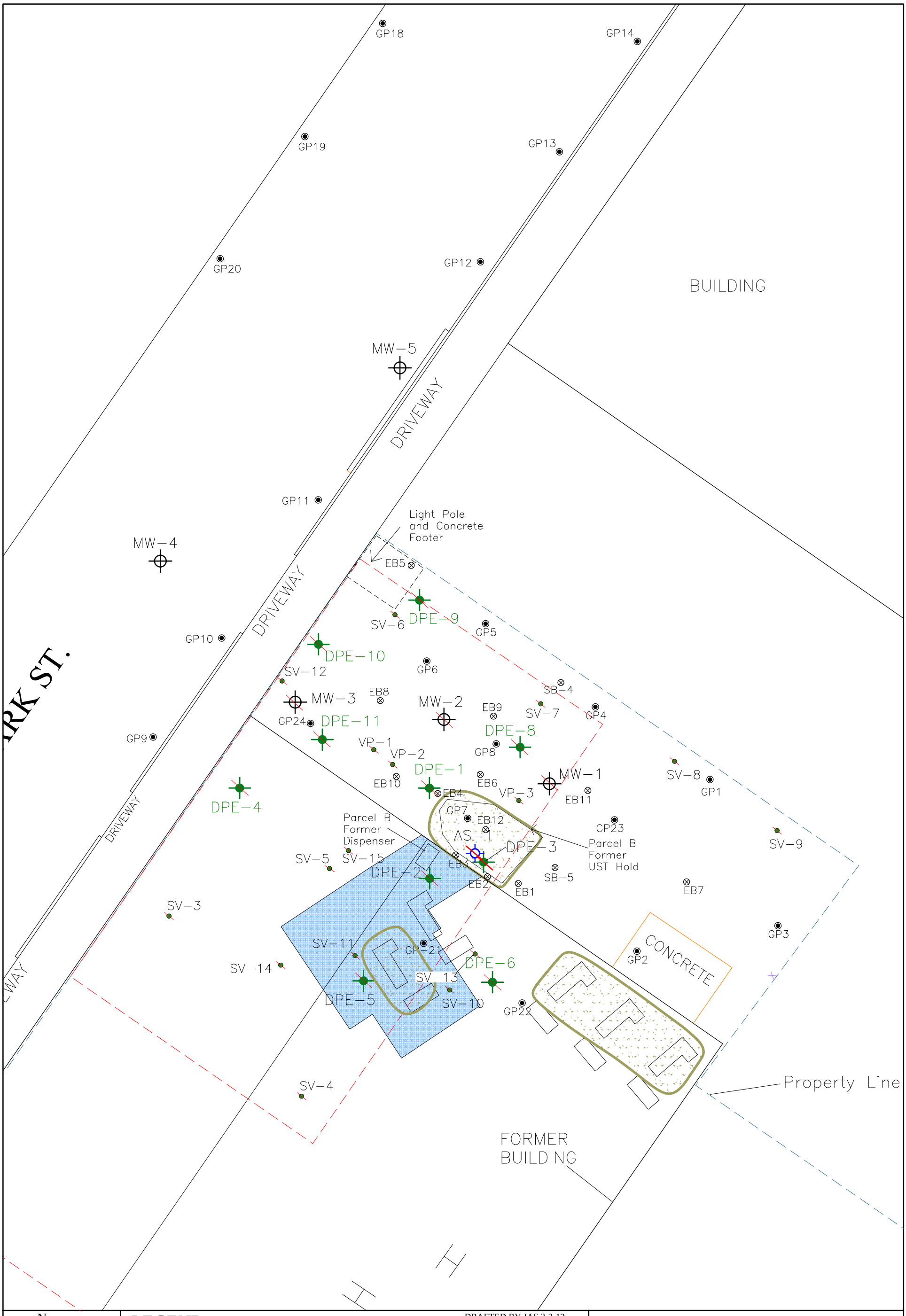
AEI CONSULTANTS

2500 CAMINO DIABLO, WALNUT CREEK

EXTENDED SITE PLAN

1630 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 2
PROJECT NO. 298931



N
W E
S

0 10 20

Scale: 1" = 20'

LEGEND

- Destroyed Remediation Well
- AEI Soil Boring (1/12)
- Destroyed Vapor Probe
- AEI Soil Boring (7/11)
- Soil Boring (2008)
- Soil Boring (Pre-1997)
- Existing/Destroyed Groundwater Monitoring Well
- Proposed Building Extents
- Former Hydraulic Lift
- Former Hydraulic Lift w/ Excavation
- Property Line
- 2013 Excavation

DRAFTED BY JAS 3-2-12
REVISED BY JAS 1-15-14

AEI CONSULTANTS

2500 CAMINO DIABLO, WALNUT CREEK

SITE PLAN

1630 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 3
PROJECT NO. 298931

DRIVEWAY

AEI–20

SV–6

DPE–9

DPE–10

SV–12

MW–3

DPE–11

MW–2

VP–1

NE Wall 2 10/4/13	@6'	@10'
TPHmo	8,500	2,200
TPHd	2,300	2,500
TPHg	<1.0	3,300
Ben	<0.005	29
PCE	0.045	<20

SW1–10' 10/22/12	@10'
TPHmo	15
TPHg	110
Ben	<0.10

SV–7

DPE–8

NW1–12 10/22/12	@12'
TPHmo	<5.0
TPHg	8.6
Ben	0.18

MW–1

VP–3

AEI–28

SWN–e 10/10/13	@3'	@6'	@10'
TPHmo	<5.0	<5.0	160
TPHd	<1.0	<1.0	310
TPHg	<1.0	<1.0	770
Ben	<0.005	<0.005	<1.0
PCE	<0.005	<0.005	<1.0

WW1–11 10/22/12	@11'
TPHmo	<5.0
TPHg	7.1
Ben	0.0084

EW1–11.5 10/22/12	@11.5'
TPHmo	<5.0
TPHg	4.0
Ben	0.16

DPE–4

NWALL' 10/2/13	@6'	@10'
TPHmo	<5.0	110
TPHd	<1.0	270
TPHg	<1.0	790
Ben	<0.005	<5.0
PCE	<0.005	<0.50

NWW 10/29/12	@10'
TPHmo	3,500
TPHg	7,600
Ben	54

Parcel B

EBE–12' 10/10/13	@12'
TPHmo	<5.0
TPHd	<1.0
TPHg	<1.0
Ben	<0.005
PCE	<0.005

AST 1

DPE–3

Parcel B
Former
UST Holc

N Wall2–10' 10/4/13	@10'
TPHmo	88
TPHd	230
TPHg	890
Ben	<5.0
PCE	<5.0

SV–5

SV–15

DPE–2

SWS–e 10/10/13	@3'	@6'	@10'
TPHmo	27	<5.0	470
TPHd	28	1.2	880
TPHg	18	<1.0	1,500
Ben	<0.005	<0.005	<2.5
PCE	<0.005	<0.005	<2.5

DPE–7

NBOT–12.5' 10/2/13	@12.5'
TPHmo	<5.0
TPHd	<1.0
TPHg	<1.0
Ben	<0.005
PCE	<0.005

AEI–4

CB3 10/29/12	@12.5'
TPHmo	<5.0
TPHg	<1.0
Ben	<0.005

NEW 10/29/12	@10.5'
TPHmo	3,800
TPHg	2,800
Ben	28

NEWALL–10' 10/2/13	@10'
TPHmo	280
TPHd	330
TPHg	620
Ben	17
PCE	<0.50

SV–11

AEI–23

SV–14

SE Corner–10' 10/2/13	@10'
TPHmo	7.7
TPHd	54
TPHg	380
Ben	<0.50
PCE	<0.050

SV–13

NWW–11–10' 10/2/13	@10'
TPHmo	<5.0
TPHd	1.3
TPHg	1.5
Ben	<0.005
PCE	<0.005

WW–1–9' 10/2/13	@10'
TPHmo	2,100
TPHd	1,300
TPHg	3,200
Ben	<5.0
PCE	<0.50

DPE–5

SV–10

AEI–6

AEI–7

SWW 10/29/12	@10'
TPHmo	14,000
TPHg	2,000
Ben	20

AEI–11

SBOT–10' 10/2/13	@10'
TPHmo	<5.0
TPHd	<1.0
TPHg	11
Ben	<0.005
PCE	<0.005

AEI–25

SWWALL–10' 10/2/13	@10'
TPHmo	<5.0
TPHd	<1.0
TPHg	<1.0
Ben	<0.005
PCE	<0.005

SEW 10/29/12	@10'
TPHmo	8,100
TPHg	4,500
Ben	31

SV–4

AEI–26

AEI–1

SWALL–9' 10/2/13	@9'
TPHmo	<5.0
TPHd	<1.0
TPHg	<1.0
Ben	<0.005
PCE	<0.005

FORMER
BUILDING

TPHmo = Total Petroleum Hydrocarbons as Motor Oil
TPHd = Total Petroleum Hydrocarbons as Diesel
TPHg = Total Petroleum Hydrocarbons as Gasoline
Ben = Benzene
PCE = Tetrachloroethene
All results in milligrams per kilogram (mg/kg)
Sample Excavated and Properly Disposed of.

N
W E
S

0 5 10
Scale: 1" = 10'

LEGEND

- Existing/Destroyed Remediation Well
- AEI Soil Boring (1/12)
- Existing/Destroyed Vapor Probe
- AEI Soil Boring (7/11)
- Groundwater Monitoring Well
- Grab Sample
- Proposed Building
- 2012 Excavation
- 2013 Excavation
- Former Hydraulic Lift
- Former Hydraulic Lift

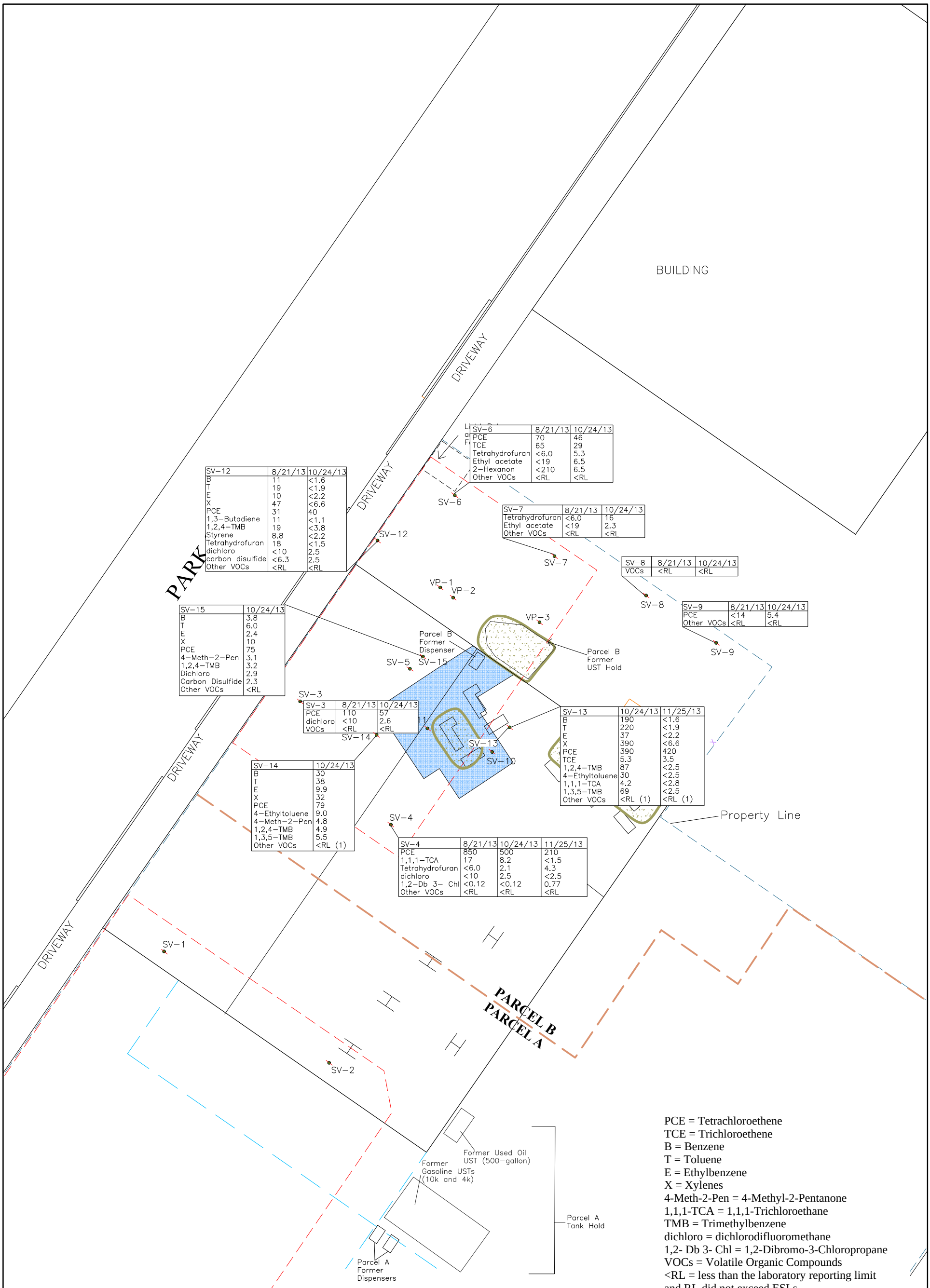
DRAFTED BY JAS 3-2-12
REVISED BY JAS 1-3-14

AEI CONSULTANTS
2500 CAMINO DIABLO, WALNUT CREEK

EXCAVATION ANALYTICAL DATA

1630 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 4
PROJECT NO. 298931



PCE = Tetrachloroethene
TCE = Trichloroethene
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
4-Meth-2-Pen = 4-Methyl-2-Pentanone
1,1,1-TCA = 1,1,1-Trichloroethane
TMB = Trimethylbenzene
dichloro = dichlorodifluoromethane
1,2- Db 3- Chl = 1,2-Dibromo-3-Chloropropane
VOCs = Volatile Organic Compounds
<RL = less than the laboratory reporting limit and RL did not exceed ESLs.
(1) One or more VOCs detected at low conentrations (below the ESL) - See lab report.
All results in micrograms per cubic meter

N
W E
S

0 15 30
Scale: 1" = 30'

LEGEND

DRAFTED BY JAS 3-2-12
REVISED BY JAS 8-12-13

- Former Vapor Probe
- Parcel Split
- 2012 Excavation Extents
- 2013 Excavation
- Proposed Building Extents
- Former Hydraulic Lift
- Former Hydraulic Lift

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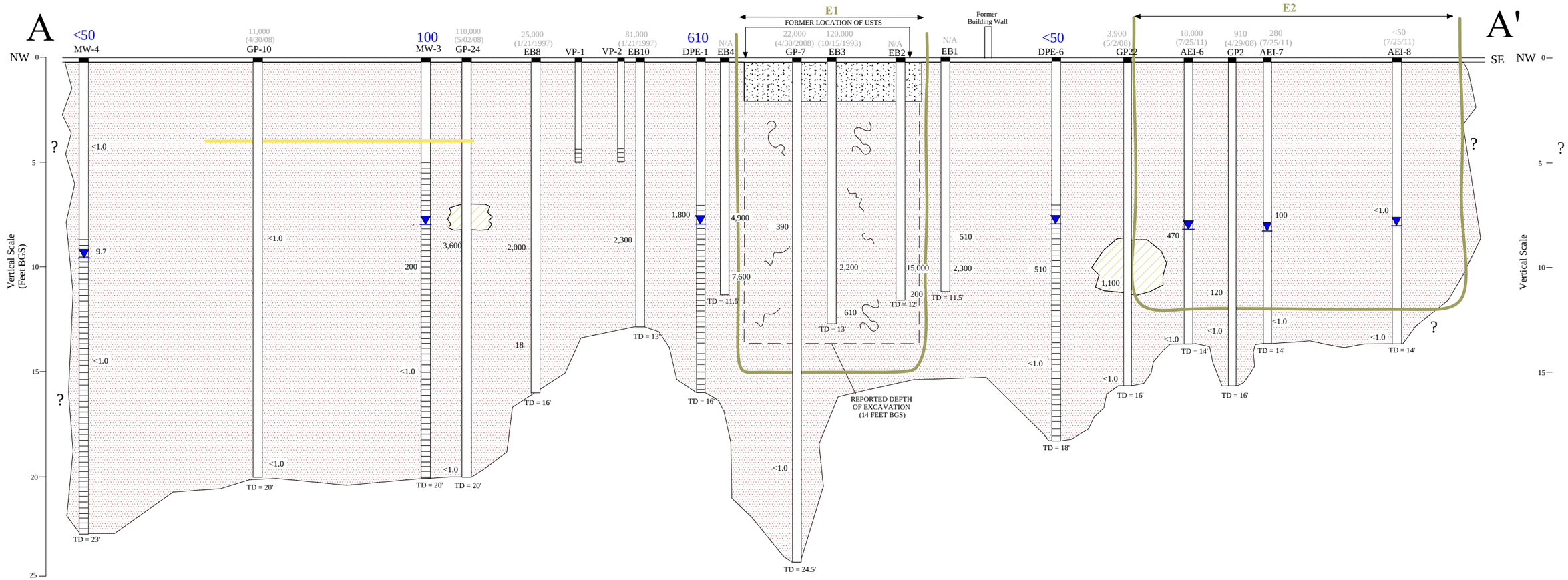
2500 CAMINO DIABLO, WALNUT CREEK

SOIL VAPOR ANALYTICAL DATA

1630 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 5
PROJECT NO. 298931



Legend:

- Sand (with varying amounts of silt)
- Sandy Gravel
- Silt
- Area Excavated (Oct. 2012)
- Groundwater Level (static)
- Plastic Debris

610 Current (10/2013) TPH-g Concentration in Groundwater in ug/L

610 Historical TPH-g Concentration in Groundwater in ug/L

2,300 TPH-g Concentration in Soil in mg/kg (Collected at depth shown)

Natural Gas Line (Projected 5' North)

*Natural Gas is the only utility intersected by the Cross Section.

TD = Total Depth of Boring

BGS = Below Ground Surface

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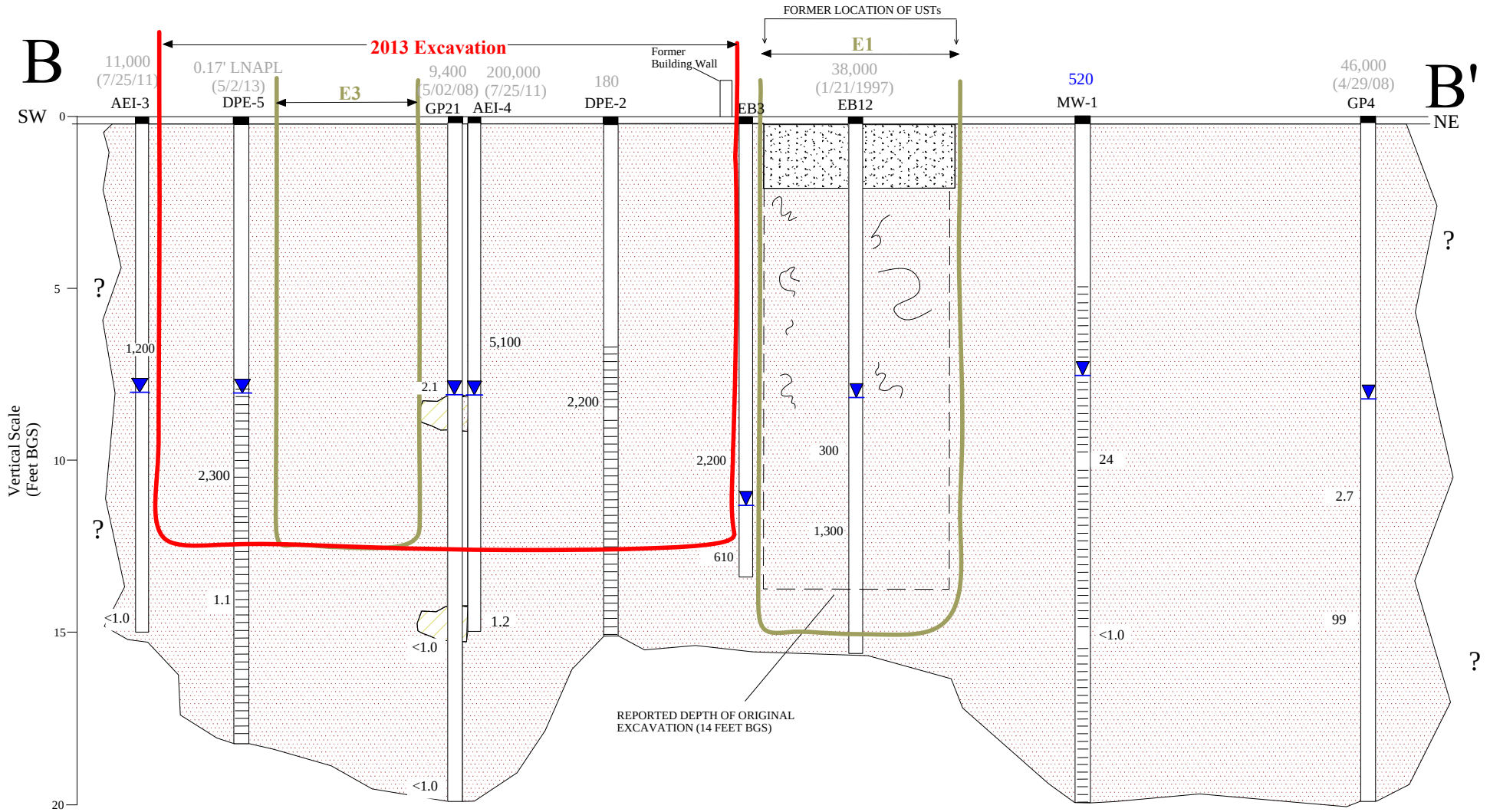
2500 CAMINO DIABLO, STE. 100, WALNUT CREEK, CA

A - A' Historical Data Fence Diagram

1630 Park Street
Alameda, CA

Figure 6
PROJECT NO. 298931



Legend:

- Sand (with varying amounts of silt)
- Sandy Gravel
- Silt
- Area Excavated (Oct. 2012 / Oct 2013)
- Groundwater Level (static)
- Plastic Debris

610 Current (10/2013) TPH-g Concentration in Groundwater in ug/L

610 Historical TPH-g Concentration in Groundwater in ug/L

2,300 TPH-g Concentration in Soil in mg/kg (Collected at depth shown)

Notes:
Static water levels not reported in "EB" borings
TD = Total Boring Depth

BGS = Below Ground Surface

* Soil TPHg Data from 1987 to 2011

* Underground Utilities not interesected by Cross Section

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2500 CAMINO DIABLO, STE. 100, WALNUT CREEK, CA

B - B' Historical Data Fence Diagram

1630 Park Street
Alameda, CA

Figure 7
PROJECT NO. 298931

MW-5	8/2/13	10/24/13	1/21/14
TPHg	NA	130	190
B	<0.5	5.2	5.4
T	<0.5	<0.5	<0.5
E	<0.5	0.73	<0.5
X	<0.5	1.9	1.3
PCE	8.3	6.7	6.4
TCE	16	16	15
Naph	<0.5	1.3	1.3

MW-4	8/8/13	10/24/13	1/21/14
TPHg	NA	<50	<50
B	<0.5	<0.5	<0.5
T	<0.5	<0.5	<0.5
E	<0.5	<0.5	<0.5
X	<0.5	<0.5	<0.5
PCE	5.4	13	12
TCE	13	18	19
Naph	<0.5	<0.5	<0.5

DPE-10	8/2/13	10/24/13
TPHg	NA	97
B	8.2	2.2
T	<0.5	<0.5
E	<0.5	<0.5
X	<0.5	<0.5
PCE	<0.5	<0.5
TCE	26	29
Naph	<0.5	<0.5

DPE-9	8/2/13	10/24/13
TPHg	NA	<50
B	3.9	0.58
T	<0.5	<0.5
E	<0.5	<0.5
X	<0.5	<0.5
PCE	<0.5	<0.5
TCE	21	31
Naph	<0.5	<0.5

MW-2	10/24/13
TPHg	480
B	5.0
T	<0.5
E	2.8
X	1.3
PCE	<0.5
TCE	5.5
Naph	24

DPE-8	10/24/13
TPHg	63
B	<0.5
T	<0.5
E	<0.5
X	<0.5
PCE	<0.5
TCE	0.67
Naph	<0.5

MW-3	8/2/13	10/24/13
TPHg	NA	100
B	<2.5	4.2
T	<2.5	<1.2
E	<2.5	<1.2
X	<2.5	<1.2
PCE	<2.5	<1.2
TCE	63	64
Naph	<2.5	24

DPE-11	10/24/13
TPHg	490
B	4.7
T	<0.5
E	2.9
X	0.80
PCE	<0.5
TCE	5.6
Naph	<0.5

MW-1	10/24/13
TPHg	520
B	39
T	<1.0
E	29
X	5.2
PCE	<1.0
TCE	<1.0
Naph	19

DPE-4	8/2/13	10/24/13
TPHg	NA	170
B	12	4.4
T	<0.5	<0.5
E	<0.5	<0.5
X	<0.5	0.53
PCE	<0.5	<0.5
TCE	2.3	1.7
Naph	<0.5	<0.5

DPE-1	8/8/13	10/24/13
TPHg	NA	610
B	18	6.1
T	<5.0	0.78
E	35	3.6
X	39	3.5
PCE	<5.0	<0.5
TCE	<5.0	<0.5
Naph	22	<0.5

DPE-6	8/2/13	10/24/13
TPHg	NA	<50
B	0.53	<0.5
T	<0.5	<0.5
E	<0.5	<0.5
X	<0.5	<0.5
PCE	1.5	1.3
TCE	1.6	2.5
Naph	<0.5	<0.5

BUILDING

MW-5

MW-4

MW-3

MW-2

MW-1

DPE-9

DPE-10

DPE-11

DPE-8

DPE-1

DPE-4

DPE-2

DPE-5

DPE-6

AS-1

DRIVEWAY

DRIVEWAY

DRIVEWAY

PARK ST.

CONCRETE

Property Line

FORMER BUILDING

PARCEL B

PARCEL A

Former Used Oil UST (500-gallon)

Former Gasoline USTs (10k and 4k)

Parcel A Tank Hold

Parcel A Former Dispensers

TPHg = total petroleum hydrocarbons as gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
PCE = Tetrachloroethene
TCE = Trichloroethene
Naph = Naphthalene
<1.0 = Less than Laboratory Reporting Limit
NA = Not Analyzed
All results in micrograms per liter (ppb)

N
W E
S

0 15 30

Scale: 1" = 30'

LEGEND

Destroyed Remediation Well

Existing/Destroyed Groundwater Monitoring Well

Proposed Building Extents

Parcel Split

Property Line

2013 Excavation

DRAFTED BY JAS 3-9-12
REVISED BY JAS 4-18-14

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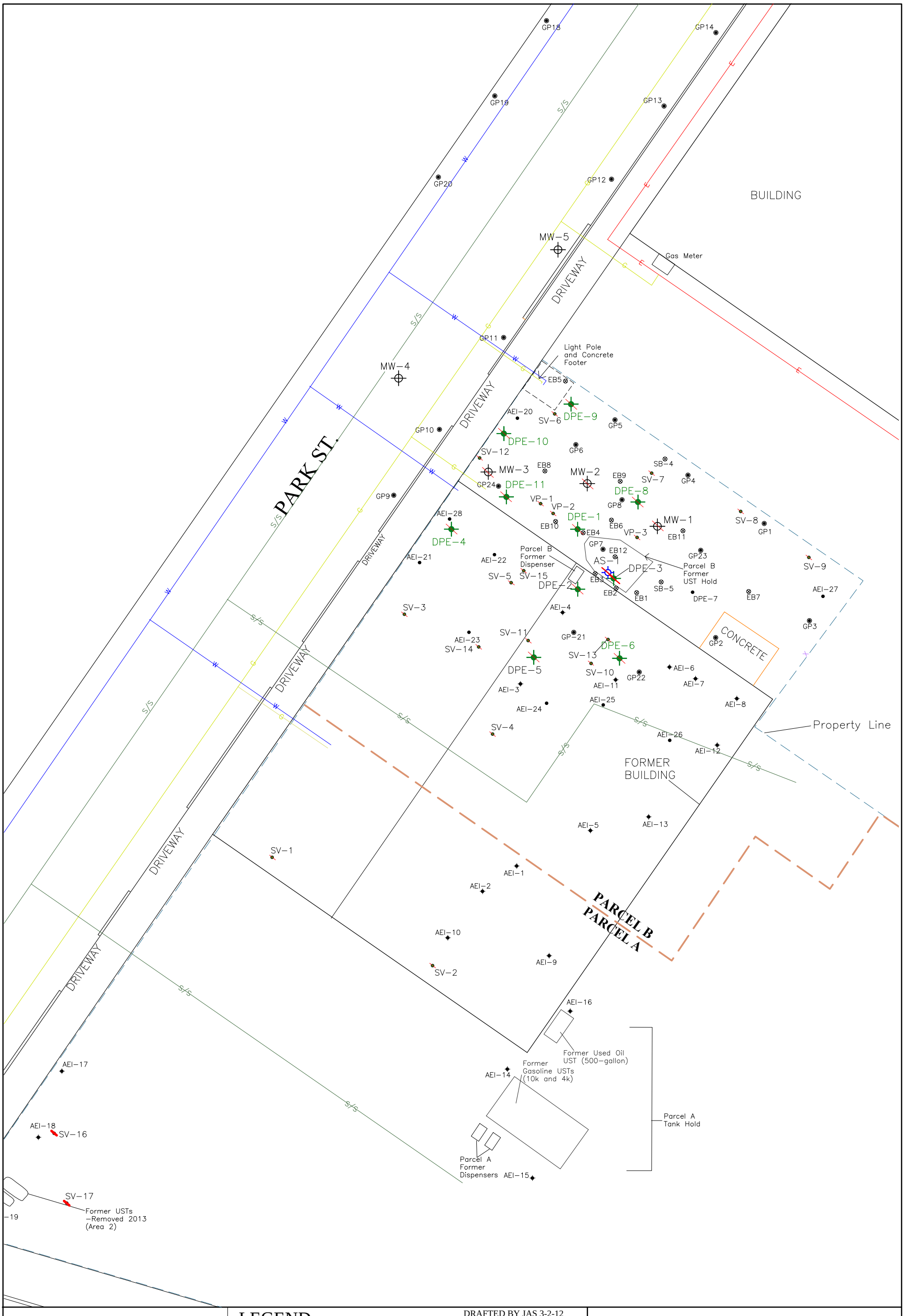
2500 CAMINO DIABLO, WALNUT CREEK

SELECT GROUNDWATER ANALYTICAL DATA

1630 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 8
PROJECT NO. 298931



N
W E
S

0 15 30

Scale: 1" = 30'

LEGEND

DRAFTED BY JAS 3-2-12
REVISED BY JAS 1-27-14

- Existing/Destroyed Groundwater Monitoring Well
- Soil Boring
- Destroyed Remediation Well
- Destroyed Vapor Probe
- Property Line
- Parcel Split
- G — Underground Natural Gas Line (3 to 4 feet bgs)
- W — Underground Water Line (3 feet bgs)
- E — Underground Electric Line (3 feet bgs)
- S/S — Underground Sanitrary Sewer Line (10.3 to 11.3 feet bgs)

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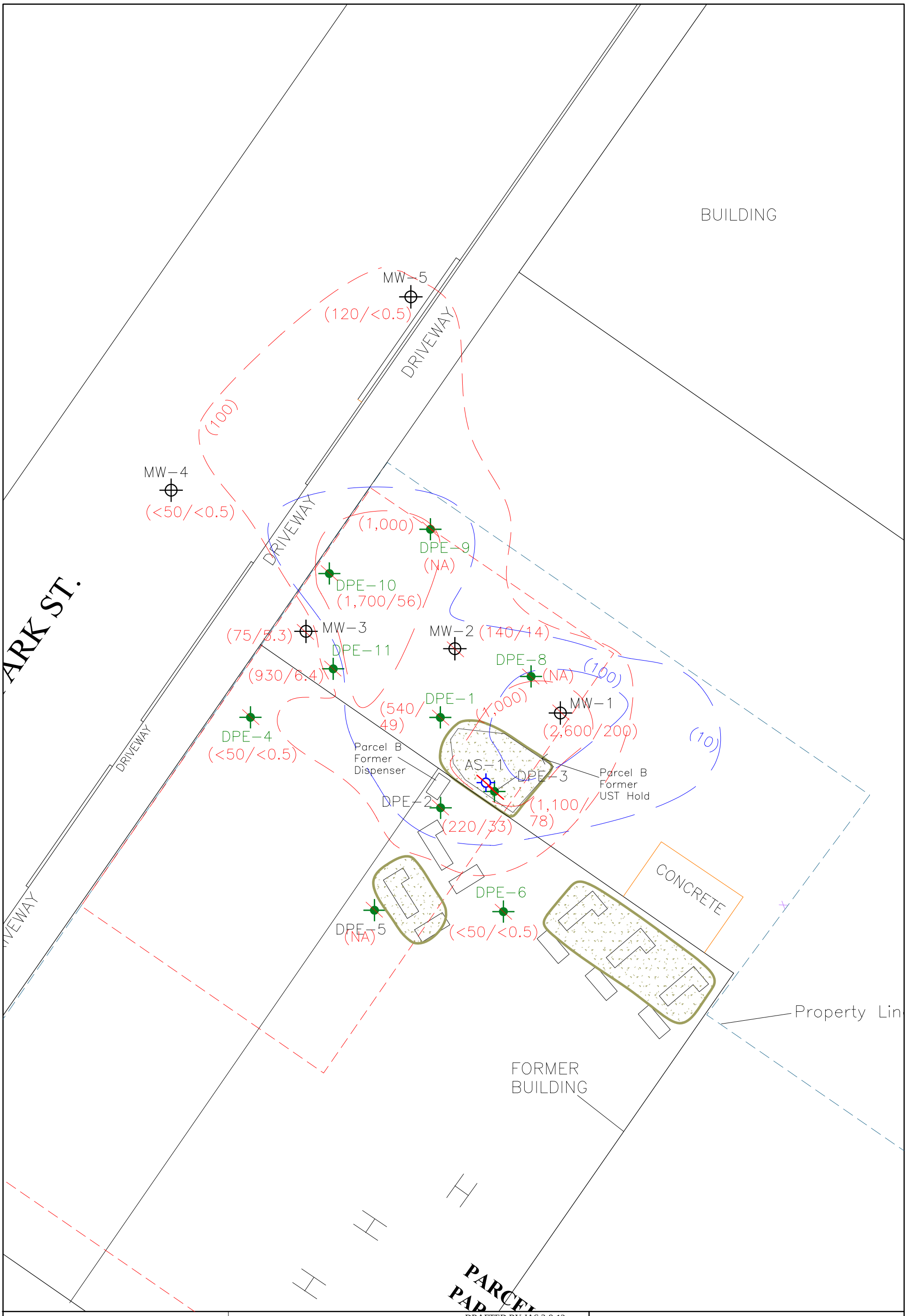
PROPOSED UTILITY MAP - PARCEL B

1630 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 9
PROJECT NO. 298931



N
W E
S

0 10 20

Scale: 1" = 20'

LEGEND

- Destroyed Remediation Well
- Existing/Destroyed Groundwater Monitoring Well
- Former Hydraulic Lift with Excavation Extents
- Property Line
- TPHg Concentration Contour
- Benzene Concentration Contour
- (210/14) = TPHg / Benzene Concentration
- Proposed Building Extent

DRAFTED BY JAS 3-9-12
REVISED BY JAS 1-15-14

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ISOCONCENTRATION MAP - MAY 18, 2012

1630 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 10
PROJECT NO. 298931

BUILDING

MW–5
(<50/<0.5)

DRIVEWAY

MW–4
(<50/1.8)

DRIVEWAY

DRIVEWAY

ARK ST.

DRIVEWAY

(100)

(10)

(1,000)

DPE–9
(1,300/47)

DPE–10
(360/40)

(100)

MW–3
(78/1.4)

MW–2 (930170)

DPE–11
(2,400/16)

DPE–8
(NA)

DPE–1
(2,300/240)

MW–1
(2,700/190)

DPE–4
(<50<0.5)

Parcel B
Former
Dispenser

AS–1

DPE–3
(2,400/
330)

Parcel B
Former
UST Hold

DPE–2
(2,600)/300

CONCRETE

DPE–6
(<50/0.93)

DPE–5
(NA)

Property Lin

FORMER
BUILDING

H

H

H

PARCE
PAR

N
W E
S

0 10 20
Scale: 1" = 20'

LEGEND

- Destroyed Remediation Well
- Existing/Destroyed Groundwater Monitoring Well
- Former Hydraulic Lift with Excavation Extents
- Property Line
- TPHg Concentration Contour
- Benzene Concentration Contour
- (210/14) = TPHg / Benzene Concentration
- Proposed Building Extent

DRAFTED BY JAS 3-9-12
REVISED BY JAS 1-15-14

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2500 CAMINO DIABLO, WALNUT CREEK

ISOCONCENTRATION MAP - July 11, 2012

1630 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 11
PROJECT NO. 298931

BUILDING

MW–5
(580/27)

DRIVEWAY

(100)

MW–4
(440/3.4)

DRIVEWAY

DPE–9
(530/4.7)

(10)

DPE–10
(79/4.9)

MW–3
(<50/<0.5)

DPE–11
(860/5.3)

MW–2 (340/15)

DPE–8
(630/13)

(580/3.3)

DPE–1

MW–1
(370/71)

DPE–4
(<50/<0.5)

Parcel B
Former
Dispenser

AS–1

DPE–3

Parcel B
Former
UST Hold

DPE–2
(<50/3.4)

CONCRETE

DPE–6
(<50/<0.5)

DPE–5
(<50/<0.5)

Property Lin

FORMER
BUILDING

DRIVEWAY

DRIVEWAY

ARK ST.

PARCE
PAR

N
W E
S

0 10 20
Scale: 1" = 20'

LEGEND

- Destroyed Remediation Well
- Existing/Destroyed Groundwater Monitoring Well
- Former Hydraulic Lift with Excavation Extents
- Property Line
- TPHg Concentration Contour
- Benzene Concentration Contour
- (210/14) = TPHg / Benzene Concentration
- Proposed Building Extent

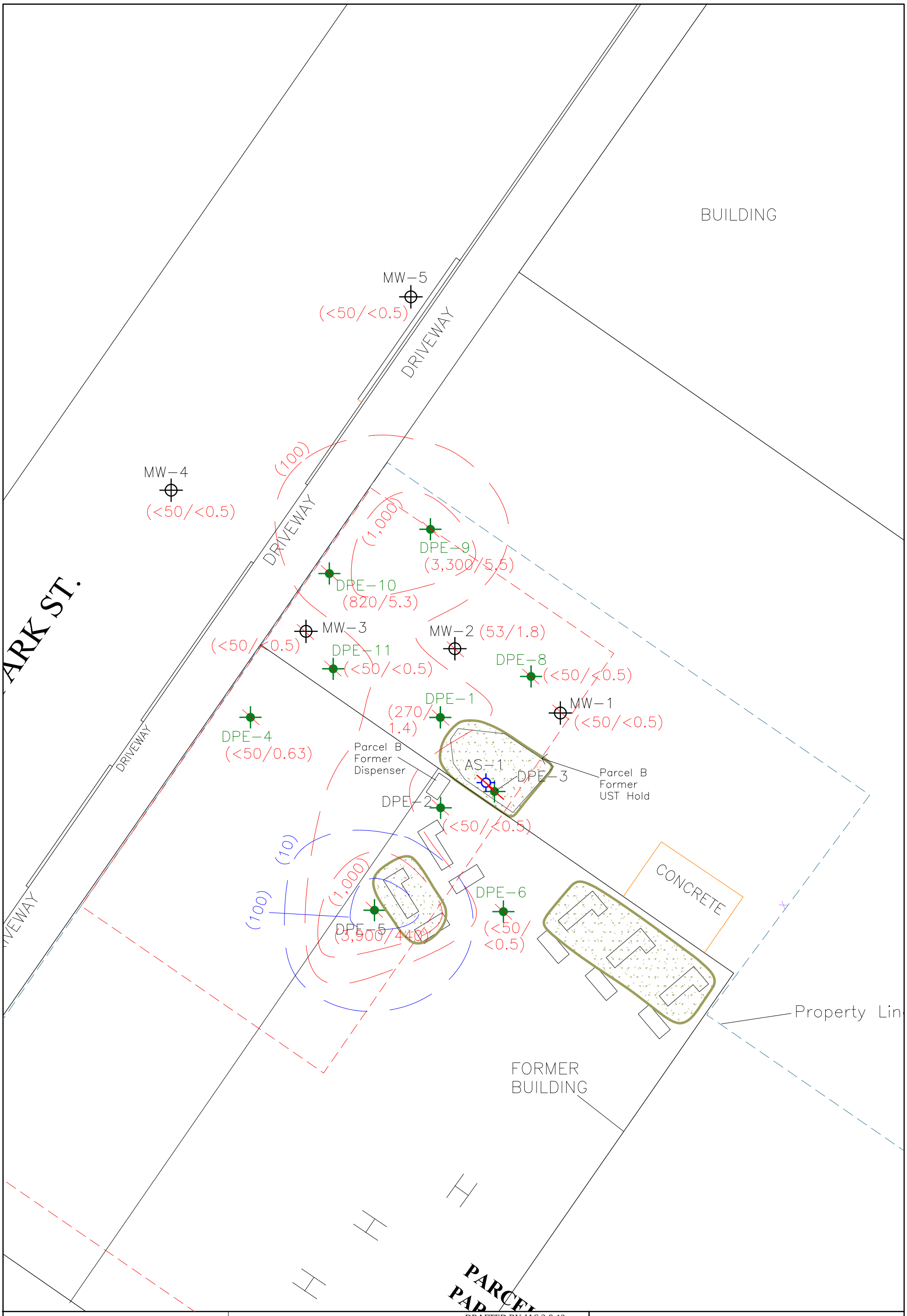
DRAFTED BY JAS 3-9-12
REVISED BY JAS 1-15-14

AEI CONSULTANTS
2500 CAMINO DIABLO, WALNUT CREEK

ISOCONCENTRATION MAP - November 16, 2012

1630 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 12
PROJECT NO. 298931



N
W E
S

0 10 20

Scale: 1" = 20'

LEGEND

- Destroyed Remediation Well
- Existing/Destroyed Groundwater Monitoring Well
- Former Hydraulic Lift with Excavation Extents
- Property Line
- TPHg Concentration Contour
- Benzene Concentration Contour
- (210/14) = TPHg / Benzene Concentration
- Proposed Building Extent

DRAFTED BY JAS 3-9-12
REVISED BY JAS 1-15-14

AEI CONSULTANTS

2500 CAMINO DIABLO, WALNUT CREEK

ISOCONCENTRATION MAP - February 27, 2013

1630 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 13

PROJECT NO. 298931

BUILDING

MW–5
(64/3.4)

DRIVEWAY

(100)

MW–4
(<50/1.8)

DRIVEWAY

(1,000)

(10)

DPE–9
(1,700/5.4)

DPE–10
(3,700/56)

MW–3
(<50/<0.5)

MW–2 (280/2.2)

DPE–11
(<50/<0.5)

DPE–8
(140/8.0)

DPE–1
(330/0.90)

MW–1
(<50/3.1)

DPE–4
(210/19)

Parcel B
Former
Dispenser

AS–1

DPE–3

Parcel B
Former
UST Hold

DPE–2
(180/37)

CONCRETE

DPE–6
(<50/
0.58)

(10)

DPE–5
(LNAPL)

Property Lin

FORMER
BUILDING

ARK ST.

DRIVEWAY

DRIVEWAY

VEWAY

PARCE
PAR

N
W E
S

0 10 20
Scale: 1" = 20'

LEGEND

- Remediation Well (12/11 and 1/12)
- Groundwater Monitoring Well
- Former Hydraulic Lift with Excavation Extents
- Property Line
- Abandoned Well
- TPHg Concentration Contour
- Benzene Concentration Contour
- (210/14) = TPHg / Benzene Concentration
- Proposed Building Extent

DRAFTED BY JAS 3-9-12
REVISED BY JAS 1-15-14

AEI CONSULTANTS
2500 CAMINO DIABLO, WALNUT CREEK

ISOCONCENTRATION MAP - MAY 1, 2013

1630 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 14
PROJECT NO. 298931

BUILDING

MW–5

(130/5.2)

DRIVEWAY

(100)

MW–4

(<50/<0.5)

DRIVEWAY

DRIVEWAY

ARK ST.

DRIVEWAY

DPE–9

(<50/0.58)

DPE–10

97/2.2

MW–3

(100/4.2)

DPE–11

490/4.7

MW–2

(480/5.0)

DPE–8

(63/<0.5)

DPE–1

(610/6.1)

MW–1

(520/39)

DPE–4

(170/4.4)

Parcel B
Former
Dispenser

AS–1

DPE–3

(10)

Parcel B
Former
UST Hold

DPE–2

CONCRETE

DPE–6

(<50/<0.5)

DPE–5

Property Lin

FORMER
BUILDING

PARCE
PAR

N

W E

S

0 10 20

Scale: 1" = 20'

LEGEND

- Destroyed Remediation Well
- Existing/Destroyed Groundwater Monitoring Well
- Former Hydraulic Lift with Excavation Extents
- Property Line
- TPHg Concentration Contour
- Benzene Concentration Contour
- (210/14) = TPHg / Benzene Concentration
- 2013 Excavation
- Proposed Building Extent

DRAFTED BY JAS 3-9-12
REVISED BY JAS 1-15-14

AEI CONSULTANTS
2500 CAMINO DIABLO, WALNUT CREEK

ISOCONCENTRATION MAP - OCTOBER 24, 2013

1630 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 15
PROJECT NO. 298931

TABLES

Table 1

Groundwater and Soil Vapor Well Inventory

AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Well ID Number	Well Installation Date	Well Destruction Date	Well Destruction Method	Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
AS-1	11/14/2011	Oct-12	Excavated	-	PVC	25	25	8	2	20 - 25	0.02	20 - 25	#3 Sand
DPE-1	11/15/2011	11/21/2013	Pressure Grout	25.88	PVC	16	15	10	4	7 - 15	0.01	6.5 - 16	#2/12 Sand
DPE-2	11/15/2011	Oct-13	Excavated	26.22	PVC	16	15	10	4	7 - 15	0.01	6.5 - 16	#2/12 Sand
DPE-3	11/14/2011	Oct-12	Excavated	25.27	PVC	16	14	10	4	7 - 14	0.01	6.5 - 16	#2/12 Sand
DPE-4	1/19/2012	11/21/2013	Pressure Grout	26.06	PVC	17	17	10	4	8 - 17	0.01	7.5 - 17	#2/12 Sand
DPE-5	1/20/2012	9/18/2013	Pressure Grout	26.25	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
DPE-6	1/20/2012	11/21/2013	Pressure Grout	26.13	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
DPE-8	1/20/2012	11/21/2013	Pressure Grout	25.36	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
DPE-9	1/20/2012	11/21/2013	Pressure Grout	25.09	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
DPE-10	1/20/2012	11/21/2013	Pressure Grout	25.14	PVC	17	17	10	4	8 - 17	0.01	7.5 - 17	#2/12 Sand
DPE-11	1/20/2012	11/21/2013	Pressure Grout	25.57	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
MW-1	1/15/1987	11/21/2013	Pressure Grout	25.37	PVC	-	20	8	2	5 - 20	-	-	-
MW-2	1/15/1987	11/21/2013	Pressure Grout	25.48	PVC	-	20	8	2	5 - 20	-	-	-
MW-3	1/15/1987	11/21/2013	Pressure Grout	25.13	PVC	-	20	8	2	5 - 20	-	-	-
MW-4	4/20/1994	Active	N/A	25.58	PVC	-	23	8	2	8 - 23	-	-	-
MW-5	4/20/1994	Active	N/A	24.31	PVC	-	22	8	2	7 - 22	-	-	-
VP-1	12/6/2011	11/21/2013	Remove & Grout	-	Nyla/SS	6	6	1.25	1/4	5.1 - 5.6	Mesh	4.7 - 6	#30 Mesh Sand
VP-2	12/6/2011	11/21/2013	Remove & Grout	-	Nyla/SS	5.9	5.9	1.25	1/4	5.1-5.6	Mesh	4.7-5.9	#30 Mesh Sand
VP-3	12/6/2011	11/21/2013	Remove & Grout	-	Nyla/SS	5.75	5.75	1.25	1/4	5.1-5.6	Mesh	4.7-5.75	#30 Mesh Sand
SV-3	4/18/2013	11/21/2013	Remove & Grout	-	Nyla/SS	5.0	5.0	2.0	1/4	4.6-4.5	Mesh	5.0-4.0	#30 Mesh Sand
SV-4	4/19/2013	11/25/2013	Remove & Grout	-	Nyla/SS	5.0	5.0	2.0	1/4	4.6-4.5	Mesh	5.0-4.0	#30 Mesh Sand
SV-5	4/20/2013	9/18/2013	Remove & Grout	-	Nyla/SS	5.0	5.0	2.0	1/4	4.6-4.5	Mesh	5.0-4.0	#30 Mesh Sand
SV-6	4/21/2013	11/21/2013	Remove & Grout	-	Nyla/SS	5.0	5.0	2.0	1/4	4.6-4.5	Mesh	5.0-4.0	#30 Mesh Sand
SV-7	4/22/2013	11/21/2013	Remove & Grout	-	Nyla/SS	5.0	5.0	2.0	1/4	4.6-4.5	Mesh	5.0-4.0	#30 Mesh Sand

Table 1

Groundwater and Soil Vapor Well Inventory

AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Well ID Number	Well Installation Date	Well Destruction Date	Well Destruction Method	Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
SV-8	8/5/2013	11/21/2013	Remove & Grout	-	Teflon/SS	5.0	5.0	2.0	1/4	4.6-4.5	Mesh	5.0-4.0	#30 Mesh Sand
SV-9	8/5/2013	11/21/2013	Remove & Grout	-	Teflon/SS	5.0	5.0	2.0	1/4	4.6-4.5	Mesh	5.0-4.0	#30 Mesh Sand
SV-10	8/5/2013	9/18/2013	Remove & Grout	-	Teflon/SS	5.0	5.0	2.0	1/4	4.6-4.5	Mesh	5.0-4.0	#30 Mesh Sand
SV-11	8/21/2013	9/18/2013	Remove & Grout	-	Teflon/SS	6.5	6.5	2.0	1/4	6.0-5.9	Mesh	6.5-5.5	#30 Mesh Sand
SV-12	8/21/2013	11/21/2013	Remove & Grout	-	Teflon/SS	6.5	6.5	2.0	1/4	6.0-5.9	Mesh	6.5-5.5	#30 Mesh Sand
SV-13	10/24/2013	11/25/2013	Remove & Grout	-	Teflon/SS	6.1	6.1	1.5	1/4	6.0-5.9	Mesh	6.1-5.1	#30 Mesh Sand
SV-14	10/24/2013	11/21/2013	Remove & Grout	-	Teflon/SS	6.1	6.1	1.5	1/4	6.0-5.9	Mesh	6.1-5.1	#30 Mesh Sand
SV-15	10/24/2013	11/21/2013	Remove & Grout	-	Teflon/SS	6.1	6.1	1.5	1/4	6.0-5.9	Mesh	6.1-5.1	#30 Mesh Sand

PVC = polyvinyl chloride
Nyla/SS = Nylaflow tubing with stainless-steel tip
TOC = top of casing
"-" = not available

Table 2

Soil Sample Analytical Data
TPH and MBTEX
AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	TPH-g (mg/kg)	TPH-d* (mg/kg)	TPH-mo* (mg/kg)	MTBE (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
						EPA Method SW8021B/8015B/m				
MW-1-10	1/15/1987	10	24	-	-	-	2.9	3.6	-	1.8
MW-1-15	1/15/1987	15	<1.0	-	-	-	<0.1	<0.1	-	<0.1
MW-2-5	1/15/1987	5	<1.0	-	-	-	<0.1	<0.1	-	<0.1
MW-2-10	1/15/1987	10	350	-	-	-	14	22	-	23
MW-3-10	1/15/1987	10	200	-	-	-	9.8	16	-	16
MW-3-15	1/15/1987	15	<1.0	-	-	-	<0.1	<0.1	-	<0.1
SB-5-10	1/15/1987	10	6.5	-	-	-	<0.1	0.22	-	<0.1
EB1-S2	10/15/1993	8.5	510	-	-	-	0.89	10	5.8	41
EB1-S3	10/15/1993	11	2,300	-	-	-	22	190	57	280
EB2-2S	10/15/1993	10	15,000	-	-	-	84	710	260	1,400
EB2-S3	10/15/1993	11.5	200	-	-	-	4.3	15	3.9	20
EB3-S2	10/15/1993	10	2,200	-	-	-	9.4	71	42	200
EB3-S3	10/15/1993	12.5	610	-	-	-	1.2	3.2	4.5	2.9
EB4-S2	10/15/1993	8	4,900	-	-	-	32	230	84	440
EB4-S3	10/15/1993	10.5	7,600	-	-	-	60	390	130	630
EB5-S2	10/15/1993	9	1,800	-	-	-	<2.5	22	27	140
EB5-S3	10/15/1993	11.5	14	-	-	-	0.021	1.5	0.49	2.5
EB6-S2	10/15/1993	8.5	6,800	-	-	-	20	230	100	590
EB7-S2	10/15/1993	6.5	<1.0	-	-	-	<0.005	<0.005	<0.005	<0.005
EB7-S3	10/15/1993	8.5	1,000	-	-	-	3.8	45	21	110
MW4-S1	4/20/1994	4.5	<1.0	-	-	-	<0.005	<0.005	<0.005	0.013
MW4-S2	4/20/1994	9	9.7	-	-	-	1.1	0.82	0.42	1.3
MW4-S3	4/20/1994	14	<1.0	-	-	-	<0.005	0.008	<0.005	0.022
MW5-S1	4/20/1994	4.5	<1.0	-	-	-	<0.005	<0.005	<0.005	<0.5
MW5-S2	4/20/1994	9	1,100	-	-	-	12	43	20	93
MW5-S3	4/20/1994	14	1.1	-	-	-	0.033	0.17	0.044	0.22
EB8-S2	1/21/1997	9.5	2,000	-	-	<4	8.4	83	44	210
EB8-S3	1/21/1997	13.5	18	-	-	0.10	3.2	1.2	0.47	1.7
EB9-S1	1/21/1997	6.5	1.8	-	-	<5	0.071	0.052	0.026	0.074
EB9-S2	1/21/1997	9.5	1,300	-	-	<4	7.1	54	29	130
EB10-S1	1/21/1997	8.5	2,300	-	-	9.3	9.1	100	50	190
EB11-S1	1/21/1997	9.5	3,800	-	-	<9	8.8	190	97	510
EB11-S2	1/21/1997	12	13	-	-	<0.1	1.1	1.6	0.47	1.4
EB12-S1	1/21/1997	9.5	300	-	-	<0.6	0.95	0.59	3.5	18
EB12-S2	1/21/1997	12	1,300	-	-	6.2	9.4	23	35	130

Table 2

Soil Sample Analytical Data
TPH and MBTEX
AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	TPH-g (mg/kg)	TPH-d* (mg/kg)	TPH-mo* (mg/kg)	MTBE (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
						EPA Method SW8021B/8015B/m				
GP1-11.5	4/29/2008	11.5	130	-	-	<0.005	<0.10	0.29	<0.10	0.42
GP1-15	4/29/2008	15	<1.0	-	-	<0.005	<0.005	0.0081	0.0065	0.028
GP2-11	4/29/2008	11	120	-	-	<0.010	<0.050	0.87	0.43	1.2
GP2-13.5	4/29/2008	13.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP3-6.75	4/29/2008	6.75	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP3-11.5	4/29/2008	11.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP4-11.5	4/29/2008	11.5	2.7	-	-	<0.005	0.14	0.052	0.072	0.17
GP4-14.5	4/29/2008	14.5	99	-	-	<0.020	0.48	1.4	1.0	4.5
GP5-11.5	4/29/2008	11.5	4.6	-	-	<0.005	0.12	0.078	0.14	0.48
GP5-19	4/29/2008	19	1.5	-	-	<0.005	<0.005	0.022	0.0069	0.032
GP6-11	4/29/2008	11	130	-	-	<0.10	0.11	1.0	1.1	5.4
GP7-8	4/30/2008	8	390	-	-	<0.050	0.84	2.2	4.3	18
GP7-19.5	4/30/2008	19.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP8-8.5	5/1/2008	8.5	1,100	-	-	<0.050	<0.10	3.2	7.3	45
GP8-19.5	5/1/2008	19.5	5.8	-	-	<0.005	0.0091	0.067	0.048	0.21
GP9-7.5	5/1/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP9-11.25	5/1/2008	11.25	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP10-7.5	4/30/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP10-19.5	4/30/2008	19.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP11-6	4/30/2008	6	<1.0	-	-	<0.005	<0.005	0.011	0.0053	0.026
GP11-15.5	4/30/2008	15.5	2,100	-	-	<0.10	5.7	71	38	180
GP11-18	4/30/2008	18	87	-	-	<0.020	0.059	0.93	0.67	4.2
GP12-7.5	4/30/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP12-11	4/30/2008	11	4.7	-	-	<0.005	0.015	0.21	0.067	0.32
GP12-15.5	4/30/2008	15.5	<1.0	-	-	<0.005	<0.005	0.0071	0.0051	0.025
GP13-7.25	4/30/2008	7.25	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP13-11	4/30/2008	11	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP13-14	4/30/2008	14	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP14-7.5	4/30/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP14-11	4/30/2008	11	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP15-7.5	4/30/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP16-7.5	5/1/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP16-10.5	5/1/2008	10.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP17-7.5	5/1/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP17-11.5	5/1/2008	11.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005

Table 2

Soil Sample Analytical Data
TPH and MBTEX
AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	TPH-g (mg/kg)	TPH-d* (mg/kg)	TPH-mo* (mg/kg)	MTBE (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
						EPA Method SW8021B/8015B/m				
GP18-7.5	5/1/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP18-10	5/1/2008	10	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP19-7	5/1/2008	7	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP20-8	5/1/2008	8	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP21-7.5	5/2/2008	7.5	2.1	-	-	<0.005	0.006	0.028	0.012	0.065
GP21-15.5	5/2/2008	15.5	<1.0	-	-	<0.005	0.0064	0.022	0.0057	0.027
GP21-19.5	5/2/2008	19.5	<1.0	-	-	<0.005	<0.005	0.0092	<0.005	0.023
GP22-10.5	5/2/2008	10.5	1,100	-	-	<0.20	0.67	13	15	70
GP22-15.5	5/2/2008	15.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
GP23-7.5	5/2/2008	7.5	53	-	-	<0.005	<0.050	0.13	<0.050	0.37
GP23-11.5	5/2/2008	11.5	1.9	-	-	<0.005	0.062	0.041	0.043	0.18
GP23-16	5/2/2008	16	2	-	-	<0.005	<0.005	0.027	0.018	0.099
GP24-8.5	5/2/2008	8.5	3,600	-	-	<1.0	1.2	32	62	410
GP24-19.5	5/2/2008	19.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005
AEI-3-7'	7/25/2011	7	1,200	1,700	4,000	<10	2.6	25	10	48
AEI-3-15'	7/25/2011	15	<1.0	1.6	<5.0	<10	<0.005	<0.005	<0.005	<0.005
AEI-4-7'	7/25/2011	7	5,100	2,100	710	<50	6.2	83.0	54.0	280.0
AEI-4-15'	7/25/2011	15	1.2	1.3	<5.0	<0.05	0.029	0.071	0.031	0.17
AEI-6-7'	7/25/2011	7	470	10,000	24,000	<5.0	<0.50	<0.50	<0.50	<0.50
AEI-6-14'	7/25/2011	14	<1.0	1.4	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50
AEI-7-7'	7/25/2011	7	100	6,300	14,000	-	-	-	-	-
AEI-7-13'	7/25/2011	13	<1.0	3.7	7.4	<5.0	<0.50	<0.50	<0.50	<0.50
AEI-8-7'	7/25/2011	7	<1.0	720	2,900	-	-	-	-	-
AEI-8-14'	7/25/2011	14	<1.0	<1.0	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50
AEI-11-3'	7/26/2011	3	<1.0	2.2	8.5	-	-	-	-	-
AEI-12-3'	7/26/2011	3	<1.0	2.6	<5.0	-	-	-	-	-
AEI-13-3'	7/26/2011	3	<1.0	4.2	<5.0	-	-	-	-	-
AEI-20-7.5'	1/17/2012	7.5	8.4	-	-	<0.05	0.0071	0.084	0.069	0.38
AEI-20-11'	1/17/2012	11	600	-	-	<0.50	0.89	2.9	10	39
AEI-20-15'	1/17/2012	15	3.3	-	-	<0.05	<0.005	0.028	<0.005	0.017
AEI-21-7'	1/17/2012	7	<1.0	-	-	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-21-11'	1/17/2012	11	46	-	-	<0.05	0.020	0.42	0.27	0.60
AEI-21-14'	1/17/2012	14	<1.0	-	-	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-22-9'	1/17/2012	9	3,100	-	-	<0.05	3.2	46	62	400
AEI-22-11'	1/17/2012	11	8.6	-	-	<0.10	0.71	0.77	0.31	1.3
AEI-22-14'	1/17/2012	14	3,300	-	-	<0.05	8.3	84	61	370

Table 2

Soil Sample Analytical Data
TPH and MBTEX
AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	TPH-g (mg/kg)	TPH-d* (mg/kg)	TPH-mo* (mg/kg)	MTBE (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
						EPA Method SW8021B/8015B/m				
AEI-23-6'	1/17/2012	6	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-23-9.5'	1/17/2012	9.5	7.5	100	180	<0.05	<0.005	0.027	<0.005	0.0055
AEI-23-12.5'	1/17/2012	12.5	460	360	270	<5.0	<0.50	1.4	<0.50	0.80
AEI-24-7'	1/17/2012	7	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-24-10.5'	1/17/2012	10.5	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-24-13'	1/17/2012	13	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-25-7.5'	1/17/2012	7.5	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-25-10'	1/17/2012	10	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-25-14'	1/17/2012	14	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-26-7.5'	1/17/2012	7.5	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-26-10.5'	1/17/2012	10.5	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-26-14'	1/17/2012	14	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-27-3'	1/17/2012	3	<1.0	3.2	7.9	<0.05	<0.005	<0.005	<0.005	0.013
AEI-28-7'	1/17/2012	7	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
AEI-28-11'	1/17/2012	11	12,000	2,100	44	<10	21	210	210	1,000
AEI-28-13'	1/17/2012	13	7.8	2.0	<5.0	<0.05	0.050	0.29	0.31	1.4
DPE-1, 7-7.5'	11/15/2011	7	1,800	330	46	<50	9.7	64	29	150
DPE-2, 8-8.5'	11/15/2011	8	2,200	280	140	<15	7.6	57	34	170
DPE-3, 8-8.5'	11/14/2011	8	2,000	1,000	58	<50	6.7	48	47	240
DPE-5, 11'	1/20/2012	11	2,300	-	-	<10	15	99	33	140
DPE-5, 14'	1/20/2012	14	1.1	-	-	<0.05	<0.005	0.17	<0.005	0.016
DPE-6, 10'	1/20/2012	10	510	-	-	<1.0	<0.10	0.14	0.47	0.96
DPE-6, 14'	1/20/2012	14	<1.0	-	-	<0.05	<0.005	<0.005	<0.005	<0.005
DPE-7, 10'	1/19/2012	10	2,200	-	-	<5.0	<5.0	16	47	240
DPE-7, 14.5'	1/19/2012	14.5	610	-	-	<5.0	<5.0	3.9	9.5	55
October 2012 Excavation Activities										
EB1-15'	10/22/2012	15	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
SW1-10'	10/22/2012	10	110	-	15	<1.0	<0.10	<0.10	<0.10	4.1
WW1-11'	10/22/2012	11	7.1	-	<5.0	<0.05	0.0084	<0.005	0.013	0.17
EW1-11.5'	10/22/2012	11.5	4.0	-	<5.0	<0.05	0.16	0.22	0.21	0.71
NW1-12'	10/22/2012	12	8.6	-	<5.0	<0.05	0.18	0.40	0.35	1.5
SEW2-9'	10/23/2012	9'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
EB2-11.5'	10/23/2012	11.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
EW2-9.5'	10/23/2012	9.5'	<1.0	-	23	<0.05	<0.005	<0.005	<0.005	<0.005
NEW2-9.5'	10/23/2012	9.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
CB2-11.5'	10/23/2012	11.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
CSW2-9.5'	10/23/2012	9.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
WB2-11.5'	10/23/2012	11.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005

Table 2

Soil Sample Analytical Data
TPH and MBTEX
AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	TPH-g (mg/kg)	TPH-d* (mg/kg)	TPH-mo* (mg/kg)	MTBE (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
						EPA Method SW8021B/8015B/m				
SWW2-9.5'	10/23/2012	9.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
WW2-9.5'	10/23/2012	9.5'	1,400	-	3,400	<5.0	<0.50	<0.50	42	180
WW2-6.5'	10/23/2012	6.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
NWW2-9.5'	10/23/2012	9.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
CNW2-9.5'	10/23/2012	9.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
CB3-12.5'	10/29/2012	12.5'	<1.0	-	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005
SEW-10'	10/29/2012	10'	4,500	-	8,100	<25	31	270	100	460
NWW-10'	10/29/2012	10'	7,600	-	3,500	<50	54	410	150	680
NEW-10.5'	10/29/2012	10.5'	2,800	-	3,800	<5.0	28	180	65	290
SWW-10'	10/29/2012	10'	2,000	-	14,000	<5.0	20	110	33	100
October 2013 Excavation Activities										
SE Corner-10'	10/2/2013	10'	380	54	7.7	<0.50	<0.50	1.1	2.1	10
NWW-11-10'	10/2/2013	10'	1.5	1.3	<5.0	<0.005	<0.005	<0.005	<0.005	0.024
WW-1-9'	10/2/2013	9'	3,200	1,300	2,100	<5.0	<5.0	80	55	230
NWALL-6'	10/2/2013	6'	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005
NWALL-10'	10/2/2013	10'	790	270	110	<5.0	<5.0	22	27	110
NBOT-12.5	10/2/2013	12.5'	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005
SBOT-10	10/2/2013	10'	11	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005
SWALL-9'	10/2/2013	9'	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005
SWWALL-10'	10/2/2013	10'	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005
NEWALL-10'	10/2/2013	10'	620	330	280	<5.0	17	94	39	170
N Wall2-10'	10/4/2013	10'	890	230	88	<5.0	<5.0	17	25	110
NE Wall2-10'	10/4/2013	10'	3,300	2,500	2,200	<20	29	350	150	680
NE Wall2-6'	10/4/2013	6'	<1.0	2,300	8,500	<0.005	<0.005	<0.005	<0.005	0.0062
EBE-12'	10/10/2013	12'	<1.0	<1.0	<5.0	<0.005	<0.005	0.0065	<0.005	0.018
SWN-e-3'	10/10/2013	3'	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005
SWN-e-6'	10/10/2013	6'	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005
SWN-e-10'	10/10/2013	10'	770	310	160	<1.0	<1.0	<1.0	3.6	34
SWS-e-3'	10/10/2013	3'	18	28	27	<0.005	<0.005	<0.005	<0.005	<0.005
SWS-e-6'	10/10/2013	6'	<1.0	1.2	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005
SWS-e-10'	10/10/2013	10'	1,500	880	470	<2.5	<2.5	17	16	100

mg/kg = milligrams per kilogram (equivalent to parts per million)
MDL = method detection limit
TPH = total petroleum hydrocarbons
TPH-g = TPH as gasoline
TPH-d = TPH as diesel
TPH-mo = TPH as motor oil
MTBE = methyl butyl tertiary ethyl
"<" = less than
"*" = with silica gel cleanup
"-" = not available
BTEX/MTBE data from October 2013 analyzed using EPA Method 8260B
Soil Sample was over-excavated during source removal activities

Table 3

Soil Sample Analytical Data
VOCs
AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	PCE (mg/kg)	n-Butyl-benzene (mg/kg)	Naphthalene (mg/kg)	1,2,4-Trimethyl benzene (mg/kg)	1,3,5-Trimethyl benzene (mg/kg)	sec-Butyl benzene (mg/kg)	n-Propyl benzene (mg/kg)	Isopropyl-benzene (mg/kg)	4-Isopropyl toluene (mg/kg)	Remaining VOCs (mg/kg)
							EPA Method SW8260B					
AEI-11-3'	7/26/2011	3	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<MDL
AEI-12-3'	7/26/2011	3	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<MDL
AEI-13-3'	7/26/2011	3	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<MDL
AEI-27-3'	1/17/2012	3	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<MDL
October 2013 Excavation Activities												
NWW-11-10'	10/2/2013	10	<0.005	0.020	0.025	0.14	0.036	<0.005	<0.005	<0.005	<0.005	<MDL
SE Corner-10'	10/2/2013	10	<0.05	1.3	1.2	7.8	2.2	<0.5	1.2	<0.5	<0.5	<MDL[1]
WW-1-9'	10/2/2013	9	<0.50	15	19	110	30	<5.0	17	5.7	5.1	<MDL[1]
NWALL-6'	10/2/2013	6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
NWALL-10'	10/2/2013	10	<0.50	8.3	6.4	54	16	<5.0	11	<5.0	<5.0	<MDL[1]
NBOT-12.5	10/2/2013	12.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
SBOT-10	10/2/2013	10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
SWALL-9'	10/2/2013	9	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
SWWALL-10'	10/2/2013	10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
NEWALL-10'	10/2/2013	10	<0.50	9.3	10	74	22	<5.0	14	<5.0	<5.0	<MDL[1]
N Wall2-10'	10/4/2013	10	<5.0	9.1	12	66	20	<5.0	9.8	<5.0	<5.0	<MDL[1]
NE Wall2-10'	10/4/2013	10	<20	37	59	270	85	<20	45	<20	<20	<MDL[1]
NE Wall2-6'	10/4/2013	6	0.045	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
EBE-12'	10/10/2013	12	<0.005	<0.005	<0.005	0.0096	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
SWN-e-3'	10/10/2013	3	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
SWN-e-6'	10/10/2013	6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
SWN-e-10'	10/10/2013	10	<1.0	7.2	9.7	38	13	1.1	3.0	<1.0	<1.0	<MDL[1]
SWS-e-3'	10/10/2013	3	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
SWS-e-6'	10/10/2013	6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<MDL
SWS-e-10'	10/10/2013	10	<2.5	17	22	91	28	2.7	11	2.9	4.8	<MDL[1]

mg/kg = milligrams per kilogram (equivalent to parts per million)
MDL = method detection limit; MDLs are below the established ESLs.
MDL[1] = method detection limit; Reporting limit of select compounds are above the established ESLs.
PCE = tetrachloroethene
VOCs = volatile organic compounds
"<" = less than

Soil Sample was over-excavated during source removal activities

Table 4

Soil Sample Analytical Data
Fuel Oxygenates, and PCBs
AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	Fuel Oxygenates^ (mg/kg) EPA Method SW8260B	All other target PCBs (mg/kg) EPA Method SW8082
GP1-11.5	4/29/2008	11.5	<MDL	-
GP1-15	4/29/2008	15	<MDL	-
GP2-11	4/29/2008	11	<MDL	-
GP2-13.5	4/29/2008	13.5	<MDL	-
GP3-6.75	4/29/2008	6.75	<MDL	-
GP3-11.5	4/29/2008	11.5	<MDL	-
GP4-11.5	4/29/2008	11.5	<MDL	-
GP4-14.5	4/29/2008	14.5	<MDL	-
GP5-11.5	4/29/2008	11.5	<MDL	-
GP5-19	4/29/2008	19	<MDL	-
GP6-11	4/29/2008	11	<MDL	-
GP7-8	4/30/2008	8	<MDL	-
GP7-19.5	4/30/2008	19.5	<MDL	-
GP8-8.5	5/1/2008	8.5	<MDL	-
GP8-19.5	5/1/2008	19.5	<MDL	-
GP9-7.5	5/1/2008	7.5	<MDL	-
GP9-11.25	5/1/2008	11.25	<MDL	-
GP10-7.5	4/30/2008	7.5	<MDL	-
GP10-19.5	4/30/2008	19.5	<MDL	-
GP11-6	4/30/2008	6	<MDL	-
GP11-15.5	4/30/2008	15.5	<MDL	-
GP11-18	4/30/2008	18	<MDL	-
GP12-7.5	4/30/2008	7.5	<MDL	-
GP12-11	4/30/2008	11	<MDL	-
GP12-15.5	4/30/2008	15.5	<MDL	-
GP13-7.25	4/30/2008	7.25	<MDL	-
GP13-11	4/30/2008	11	<MDL	-
GP13-14	4/30/2008	14	<MDL	-
GP14-7.5	4/30/2008	7.5	<MDL	-
GP14-11	4/30/2008	11	<MDL	-
GP15-7.5	4/30/2008	7.5	<MDL	-
GP16-7.5	5/1/2008	7.5	<MDL	-
GP16-10.5	5/1/2008	10.5	<MDL	-
GP17-7.5	5/1/2008	7.5	<MDL	-
GP17-11.5	5/1/2008	11.5	<MDL	-

Table 4

Soil Sample Analytical Data
Fuel Oxygenates, and PCBs
AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	Fuel Oxygenates^ (mg/kg) EPA Method SW8260B	All other target PCBs (mg/kg) EPA Method SW8082
GP18-7.5	5/1/2008	7.5	<MDL	-
GP18-10	5/1/2008	10	<MDL	-
GP19-7	5/1/2008	7	<MDL	-
GP20-8	5/1/2008	8	<MDL	-
GP21-7.5	5/2/2008	7.5	<MDL	-
GP21-15.5	5/2/2008	15.5	<MDL	-
GP21-19.5	5/2/2008	19.5	<MDL	-
GP22-10.5	5/2/2008	10.5	<MDL	-
GP22-15.5	5/2/2008	15.5	<MDL	-
GP23-7.5	5/2/2008	7.5	<MDL	-
GP23-11.5	5/2/2008	11.5	<MDL	-
GP23-16	5/2/2008	16	<MDL	-
GP24-8.5	5/2/2008	8.5	<MDL	-
GP24-19.5	5/2/2008	19.5	<MDL	-
AEI-3-10'	7/25/2011	10	-	<1.0
AEI-4-10'	7/25/2011	10	-	<0.25
AEI-6-10'	7/25/2011	10	-	<0.05
AEI-7-11'	7/25/2011	11	-	<0.50
AEI-8-11'	7/25/2011	11	-	<0.05

mg/kg = milligrams per kilogram (equivalent to parts per million)
MDL = method detection limit; MDLs assumed to be below the established ESLs; work done by previous consultant and analytical reports are not available to AEI.
PCBs = polychlorinated biphenyls
"<" = less than
"-" = not available
"^" = fuel oxygenates tert-amyl methyl ether (TAME), t-butyl alcohol (TBA), 1,2-dibromomethane (EDB), 1,2-dichloroethane (1,2-DCA), diisopropyl ether (DIPE), methanol, ethanol, ethyl tert-butyl ether (ETBE), methyl tert-butyl ether (MTBE), and 1,2-Dichloroethane (EDC)

Table 5
Soil Sample Analytical Data
Metals
AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	Cd	Cr (total)*	Pb	Ni	Zn
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
					EPA Method SW6010B		
AEI-11-3'	7/26/2011	3	<1.5	60	<5.0	24	16
AEI-12-3'	7/26/2011	3	<1.5	31	<5.0	15	10
AEI-13-3'	7/26/2011	3	<1.5	29	<5.0	14	9.7
*AEI-27-3'	1/17/2012	3	<0.25	38	140	17	140

Notes:
mg/kg = milligrams per kilogram
"-" = not available
Cd = Cadmium
Cr = Chromium
Pb = Lead
Ni = Nickel
Zn = Zinc
*AEI-27-3' = Antimony - 1.2 mg/kg, Arsenic - 4.0 mg/kg, Barium - 130 mg/kg, Cobalt - 3.7 mg/kg, Copper - 18 mg/kg, Mercury - 0.32 mg/kg and Vanadium - 28 mg/kg by CAM 17 EPA Method SW3050B.

Table 6

Groundwater Analytical Data - Grab Samples
TPH and MBTEX
AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	TPH-g (µg/L)	TPH-d* (µg/L)	TPH-mo* (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)
					EPA Method SW8021B/8015Bm				
HP-1	4/23/1993	<50	-	-	-	<0.5	<0.5	<0.5	<0.5
HP-2	4/23/1993	<50	-	-	-	<0.5	<0.5	<0.5	<0.5
EB3-WSIA	10/15/1993	120,000	-	-	-	9,600	20,000	3,400	14,000
EB5-WSIA	10/15/1993	83,000	-	-	-	3,900	15,000	3,100	13,000
EB8-WS1	1/21/1997	25,000	-	-	<80	2,600	3,200	780	3,600
EB10-WS1	1/21/1997	81,000	-	-	<370	13,000	12,000	3,300	8,000
EB11-WS1	1/21/1997	49,000	-	-	<180	6,900	6,000	2,100	4,600
EB12-WS1	1/21/1997	38,000	-	-	110	1,400	1,400	1,800	7,400
P1-WS1	1/21/1997	74,000	-	-	<78	1,100	5,800	3,800	18,000
P2-WS1	1/21/1997	6,800	-	-	<10	2,200	290	310	560
P3-WS1	1/21/1997	220	-	-	<5.0	1.9	17	10	49
GP1W	4/29/2008	70,000	-	-	<500	6,800	6,600	2,300	12,000
GP2W	4/29/2008	910	-	-	<5.0	0.69	2.9	30	64
GP3W	4/29/2008	<50	-	-	<5.0	<0.5	<0.5	<0.5	<0.5
GP4W	4/29/2008	46,000	-	-	<500	570	3,200	1,500	7,500
GP5W	4/29/2008	12,000	-	-	<60	140	480	270	1,100
GP6W	4/29/2008	22,000	-	-	<170	920	1,600	900	3,500
GP7W	4/30/2008	22,000	-	-	<180	2,600	320	810	2,600
GP8W	5/1/2008	140,000	-	-	<650	9,000	20,000	4,300	21,000
GP9W	5/1/2008	550	-	-	<5.0	53	0.52	2.1	25
GP10W	4/30/2008	11,000	-	-	<100	1,900	490	480	770
GP11W	4/30/2008	42,000	-	-	<452	1,900	4,200	1,700	7,600
GP12W	4/30/2008	61,000	-	-	<500	4,500	11,000	1,700	7,700
GP13W	4/30/2008	6,200	-	-	<10	220	53	150	440
GP14W	4/30/2008	300	-	-	<5.0	46	1.9	19	11
GP15W	4/30/2008	<50	-	-	<5.0	<0.5	0.69	<0.5	1.1
GP16W	5/1/2008	<50	-	-	<5.0	<0.5	<0.5	<0.5	<0.5
GP17W	5/1/2008	<50	-	-	<5.0	<0.5	1.7	<0.5	2
GP18W	5/1/2008	<50	-	-	<5.0	<0.5	2.1	0.79	4
GP19W	5/1/2008	85	-	-	<5.0	<0.5	0.80	<0.5	<0.5
GP20W	5/1/2008	<50	-	-	<5.0	<0.5	<0.5	<0.5	<0.5
GP21W	5/2/2008	9,400	-	-	<50	560	1,400	260	1,300
GP22W	5/2/2008	3,900	-	-	<25	36	160	120	610
GP23W	5/2/2008	16,000	-	-	<90	830	1,900	540	2,600
GP24W	5/2/2008	110,000	-	-	<450	6,500	4,200	3,100	13,000

Table 6

Groundwater Analytical Data - Grab Samples
TPH and MBTEX
AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	TPH-g (µg/L)	TPH-d* (µg/L)	TPH-mo* (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)
					EPA Method SW8021B/8015Bm				
AEI-3-W	7/25/2011	11,000	12,000	29,000	<50	1,100	1,900	210	860
AEI-4-W	7/25/2011	200,000	25,000	19,000	<500	21,000	30,000	3,600	16,000
AEI-5-W	7/25/2011	<50	<50	<250	-	-	-	-	-
AEI-6-W	7/25/2011	18,000	120,000	300,000	<50	<5.0	7.7	<5.0	28
AEI-7-W	7/25/2011	280	11,000	28,000	-	-	-	-	-
AEI-8-W	7/25/2011	<50	1,600	3,800	-	-	-	-	-
AEI-20	1/17/2012	130,000	-	-	<500	1,200	2,200	4,400	20,000
AEI-21	1/17/2012	110,000	-	-	<500	160	520	1,200	3,300
AEI-22	1/17/2012	61,000	-	-	<500	790	4,400	1,500	7,200
AEI-23	1/17/2012	9,000	8,400	1,500	<50	<5.0	16	12	<5.0
AEI-24	1/17/2012	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5
AEI-25	1/17/2012	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5
AEI-26	1/17/2012	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5
AEI-27	1/17/2012	<50	<100	<500	<5.0	<0.5	<0.5	<0.5	<0.5
AEI-28	1/17/2012	16,000	4,500	<250	<100	160	690	540	2,500

µg/L = micrograms per liter
TPH = total petroleum hydrocarbons
TPH-g = TPH as gasoline
TPH-d = TPH as diesel
TPH-mo = TPH as motor oil
MTBE = methyl tertiary butyl ether
"*" = with silica gel cleanup
"-" = not available
"<" = less than

Table 7

Groundwater Analytical Data - Grab Samples
VOCs, Fuel Oxygenates, and PCBs
AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	1,4-Dioxane (µg/L)	TBA (µg/L)	EDB (µg/L)	EDC (µg/L)	MTBE (µg/L)	Fuel Oxygenates^ (µg/L)	All Target VOCs (µg/L)
					EPA Method SW8260B			
GP1W	4/29/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-
GP2W	4/29/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP3W	4/29/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP4W	4/29/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-
GP5W	4/29/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP6W	4/29/2008	-	24	<5.0	<5.0	<5.0	<MDL	-
GP7W	4/30/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-
GP8W	5/1/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-
GP9W	5/1/2008	-	7.7	<0.5	1.1	1.2	<MDL	-
GP10W	4/30/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-
GP11W	4/30/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-
GP12W	4/30/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-
GP13W	4/30/2008	-	8.9	<0.5	<0.5	<0.5	<MDL	-
GP14W	4/30/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP15W	4/30/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP16W	5/1/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP17W	5/1/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP18W	5/1/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP19W	5/1/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP20W	5/1/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-

Table 7

Groundwater Analytical Data - Grab Samples
VOCs, Fuel Oxygenates, and PCBs
AEI Project No. 298931, 1620-1640 Park Street, Alameda, California

Sample ID	Date Collected	1,4-Dioxane (µg/L)	TBA (µg/L)	EDB (µg/L)	EDC (µg/L)	MTBE (µg/L)	Fuel Oxygenates^ (µg/L)	All Target VOCs (µg/L)
					EPA Method SW8260B			
GP21W	5/2/2008	-	<2.0	0.65	<0.5	<0.5	<MDL	-
GP22W	5/2/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-
GP23W	5/2/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-
GP24W	5/2/2008	-	75	<5.0	<5.0	<5.0	<MDL	-
AEI-27	1/17/2012	-	-	-	-	-	-	<MDL[1]

mg/kg = milligrams per kilogram (equivalent to parts per million)
MDL = method detection limit; MDLs are below the ESL if one is established.
MDL = method detection limit; MDLs assumed to be below the established ESLs; work done by previous consultant and analytical reports are not available to AEI.
MDL[1] = method detection limit; MDLs at standard dilution and below the respective ESLs.
VOCs = volatile organic compounds
TBA = t-butyl alcohol
EDB = 1,2-dibromomethane
EDC = 1,2-dichloroethane
MTBE = methyl tert-butyl ether
"-" = not available
"<" = less than
"^" = fuel oxygenates tert-amyl methyl ether (TAME), 1,2-dichloroethane (1,2-DCA), diisopropyl ether (DIPE), methanol, ethanol, and ethyl tert-butyl ether (ETBE)

Table 8

Groundwater Monitoring Analytical Data (TPHs, BTEX, MTBE & Lead) - Monitoring Wells

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
			by EPA Methods 8020, 8021B, or 8260B								EPA 200.8
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-1	1/21/1987		-	-	21,020	1,148	8,627	1,792	6,012	-	-
	1/11/1989		-	-	1,400	74	10	13	5.0	-	-
	7/12/1989		-	-	1,200	470	49	45	33	-	-
	4/9/1991		-	-	850	260	10	15	12	-	-
	7/14/1992		-	-	13,000	2,300	1,200	1,200	1,200	-	-
	10/7/1992		-	-	3,600	1,600	80	120	120	-	-
	1/11/1993		-	-	1,200	410	16	23	19	-	-
	4/23/1993	a	-	-	2,200	720	180	82	150	-	-
	7/8/1993	a	-	-	3,200	1,200	110	97	100	-	-
	10/15/1993	a	-	-	3,700	1,400	43	94	36	-	-
	1/25/1994	a	-	-	1,600	680	16	41	35	-	-
	4/28/1994	a	-	-	6,100	1,900	380	250	340	-	-
	7/27/1994	a	-	-	6,000	1,800	510	220	450	-	-
	10/27/1994	a	-	-	3,000	1,100	79	82	87	-	-
	1/26/1995	a	-	-	1,600	660	100	82	87	-	-
	4/13/1995	a	-	-	3,800	1,200	270	120	260	-	-
	7/21/1995	a	-	-	5,200	1,500	450	190	400	-	-
	10/25/1995	a	-	-	5,900	1,800	450	210	400	-	-
	1/21/1997	a	-	-	3,100	1,100	87	160	180	<7.3	-
	11/12/1998	a	-	-	1,000	280	3	3.3	7.9	<30	-
	1/16/2001	a	-	-	4,700	1,20	18	150	49	<5	-
	6/27/2002	a	-	-	5,900	230	7.7	<5	1,500	<5	-
	11/18/2002	a	-	-	3,100	890	12	310	28	<2.5	-
	2/20/2003	d	-	-	260	100	0.72	<0.5	<0.5	<0.5	-
	6/11/2003	a	-	-	3,100	480	6.7	220	420	<2.5	-
	4/3/2008	a	-	-	2,700	280	21	130	230	<1.0	<0.5
	6/23/2011	a	-	-	610	100	6.2	46	77	<2.5	-
	12/6/2011	a	-	-	900	160	<5.0	68	76	<5.0	-
	1/24/2012	a	-	-	190	25	<1.0	1.4	4.6	<1.0	-
	5/18/2012	f	210	<250	2,600	200	51	93	610	<5.0	-
	7/11/2012	a	700	<250	2,700	190	8.1	100	230	<5.0	-
	11/16/2012	c	140	<250	370	71	<1.7	<1.7	<1.7	<1.7	-
	2/27/2013		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	5/1/2013		<50	<250	<50	3.1	<0.5	<0.5	<0.5	<0.5	-
	10/24/2013	a,g	230	<250	520	39	<1.0	29	5.2	<1.0	-

Table 8

Groundwater Monitoring Analytical Data (TPHs, BTEX, MTBE & Lead) - Monitoring Wells

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
					by EPA Methods 8020, 8021B, or 8260B						EPA 200.8
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-2	1/21/1987		-	-	5,018	386	1,981	285	1,432	-	-
	1/11/1989		-	-	10,000	3,000	410	240	190	-	-
	7/12/1989		-	-	7,600	2,700	540	250	320	-	-
	4/9/1991		-	-	4,900	910	210	130	200	-	-
	7/14/1992		-	-	13,000	4,400	1,500	610	1,100	-	-
	10/7/1992		-	-	11,000	5,200	1,500	500	1,200	-	-
	1/11/1993		-	-	17,000	940	1,100	480	930	-	-
	4/23/1993	a	-	-	52,000	13,000	8,400	1,700	5,300	-	-
	7/8/1993	a	-	-	6,400	2,500	470	280	530	-	-
	10/15/1993	a	-	-	17,000	3,900	870	500	940	-	-
	1/25/1994	a	-	-	16,000	5,400	1,140	640	1,500	-	-
	4/28/1994	a	-	-	15,000	4,00	910	480	1,200	-	-
	7/27/1994	a	-	-	18,000	6,000	760	630	1,600	-	-
	10/27/1994	a	-	-	9,500	2,700	230	320	640	-	-
	1/26/1995	a	-	-	5,900	1,900	290	230	500	-	-
	4/13/1995	a	-	-	10,000	3,300	620	360	930	-	-
	7/21/1995	a	-	-	9,900	3,300	320	390	830	-	-
	10/25/1995	a	-	-	13,000	4,900	400	580	990	-	-
	1/21/1997	a	-	-	7,600	2,600	310	330	660	<20	-
	11/12/1998	a	-	-	31,000	11,000	750	1,500	2,300	<900	-
	1/16/2001	a	-	-	23,000	8,200	260	1,000	820	<30	-
	6/27/2002	a	-	-	39,000	7,000	1,800	690	4,000	<5	-
	11/18/2002	a	-	-	15,000	5,700	76	1,000	150	<12	-
	2/20/2003	a	-	-	26,000	6,300	1,100	1,300	1,900	<5.0	-
	6/11/2003	a	-	-	37,000	7,100	2,300	2,000	3,600	<25	-
	4/3/2008	a	-	-	4,100	760	96	250	130	<2.5	<0.5
	6/23/2011	a	-	-	6,500	2,100	210.0	560	310	<50	-
	12/6/2011	a	-	-	4,800	1,600	<50	260	<50	<50	-
	1/24/2012	a	-	-	2,500	100	22.0	<5.0	410	<5.0	-
	5/18/2012	f	68	<250	140	14	2.8	2.9	12	<0.5	-
	7/11/2012	a	270	<250	930	170	<5.0	24	9.3	<5.0	-
	11/16/2012	c	200	<250	340	15	1.4	5.4	2.1	<0.5	-
	2/27/2013	a	<50	<250	53	1.8	<0.5	<0.5	1.4	<0.5	-
	5/1/2013	a,c	190	<250	280	2.2	<0.5	5.6	5.6	<0.5	-
	10/24/2013	a,g	380	<250	480	5.0	<0.5	2.8	1.3	<0.5	-

Table 8

Groundwater Monitoring Analytical Data (TPHs, BTEX, MTBE & Lead) - Monitoring Wells

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
					by EPA Methods 8020, 8021B, or 8260B						EPA 200.8
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-3	1/21/1987		-	-	10,287	1,428	3,281	610	2,761	-	-
	1/11/1989		-	-	5,300	1,800	340	150	160	-	-
	7/12/1989		-	-	7,800	3,100	900	300	480	-	-
	4/9/1991		-	-	9,400	1,400	730	200	510	-	-
	7/14/1992		-	-	17,000	3,500	390	390	260	-	-
	10/7/1992		-	-	9,200	4,300	470	390	610	-	-
	1/11/1993		-	-	2,000	740	29	58	28	-	-
	4/23/1993	a	-	-	6,500	2,600	280	260	190	-	-
	7/8/1993	a	-	-	5,200	2,100	260	250	180	-	-
	10/15/1993	a	-	-	11,000	3,500	580	430	370	-	-
	1/25/1994	a	-	-	6,200	2,500	270	160	28	-	-
	4/28/1994	a	-	-	5,300	1,700	190	210	180	-	-
	7/27/1994	a	-	-	5,900	2,000	360	260	330	-	-
	10/27/1994	a	-	-	8,000	2,200	580	260	170	-	-
	1/26/1995	a	-	-	3,700	1,200	150	150	190	-	-
	4/13/1995	a	-	-	4,000	1,400	200	180	210	-	-
	7/21/1995	a	-	-	5,700	2,000	280	270	280	-	-
	10/25/1995	a	-	-	11,000	3,500	1,100	460	680	-	-
	1/21/1997	a	-	-	2,200	860	63	71	80	<5.0	-
	11/12/1998	d	-	-	180	44	0.51	<0.5	0.92	<20	-
	1/16/2001	a	-	-	64	11	0.77	<0.5	<0.5	<5.0	-
	6/27/2002		-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	11/18/2002	a	-	-	110	21	1	<0.5	<0.5	<0.5	-
	2/20/2003		-	-	<50	2.5	<0.5	<0.5	<0.5	<0.5	-
	6/11/2003		-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	4/3/2008	a	-	-	7,600	2,400	58	250	170	<5.0	<0.5
	6/23/2011	a	-	-	1,300	560	21	86	150	<12	-
	12/6/2011	a	-	-	1,800	620	28	22	46	<17	-
	1/24/2012	a	-	-	3,700	1,200	68	34	130	<25	-
	5/18/2012	f	<50	<250	75	5.3	<0.5	<0.5	1.6	<0.5	-
	7/11/2012	a	<50	<250	78	1.4	0.66	<0.5	5.5	<0.5	-
	11/16/2012		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	2/27/2013	g	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	5/1/2013		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	8/2/2013		-	-	-	<2.5	<2.5	<2.5	<2.5	<2.5	-
	10/24/2013	a,g	100	<250	100	4.2	<1.2	<1.2	<1.2	<1.2	-

Table 8

Groundwater Monitoring Analytical Data (TPHs, BTEX, MTBE & Lead) - Monitoring Wells

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
			by EPA Methods 8020, 8021B, or 8260B								EPA 200.8
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-4	4/28/1994	b,c	-	-	190	3.8	2.9	2.1	3.1	-	-
	7/27/1994	a	-	-	180	15	9.2	7.6	28	-	-
	10/27/1994	a	-	-	130	8.6	6.6	4.5	17	-	-
	1/26/1995		-	-	110	6.5	1.2	1.8	11	-	-
	4/13/1995		-	-	82	3.9	<0.5	<0.5	2.5	-	-
	7/21/1995		-	-	130	8.8	1.3	4.5	7.6	-	-
	10/25/1995		-	-	95	6.6	1.7	4.3	7	-	-
	4/3/2008		-	-	130	1.6	<0.5	0.89	0.85	<0.5	<0.5
	6/23/2011	a	-	-	53	2.7	<0.5	1.0	1.7	<0.5	-
	5/23/2012	f	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	7/11/2012	g	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	11/16/2012	c	360	<250	440	3.4	<0.5	1.2	2.1	<0.5	-
	2/27/2013		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	5/1/2013		<50	<250	<50	1.8	<0.5	<0.5	<0.5	<0.5	-
	8/8/2013	g	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
	10/24/2013	g	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	1/21/2014		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
MW-5	4/28/1994	a	-	-	30,000	4,000	3,000	810	3,500	-	-
	7/27/1994	a	-	-	9,300	2,000	800	290	940	-	-
	10/27/1994	a	-	-	15,000	2,700	1,300	420	1,100	-	-
	1/26/1995	a	-	-	7,900	2,100	680	240	860	-	-
	4/13/1995	a	-	-	7,900	2,400	580	340	630	-	-
	7/21/1995	a	-	-	11,000	3,400	760	610	1,200	-	-
	10/25/1995	a	-	-	13,000	2,900	830	570	1,100	-	-
	1/21/1997	a	-	-	2,600	750	65	1,860	280	<5.0	-
	11/12/1998		-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-
	1/16/2001		-	-	<50	11	<0.5	<0.5	0.82	<5.0	-
	6/27/2002		-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	11/18/2002	a	-	-	130	17	3.8	2.1	16	<0.5	-
	2/20/2003		-	-	<50	5.6	0.51	<0.5	0.68	<0.5	-
	6/11/2003	a	-	-	170	48	<0.5	<0.5	1.4	<0.5	-
	4/3/2008	a	-	-	31,000	490	3,400	1,600	5,300	<10	<0.5
	6/23/2011	a	-	-	82	5.1	<0.5	12.0	8.4	<0.5	-
	5/18/2012	f	<50	<250	120	<0.5	<0.5	<0.5	<0.5	<0.5	-
	7/11/2012	g	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	11/16/2012	c	450	<250	580	27	1.7	6.7	7.1	<0.5	-
	2/27/2013		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	5/1/2013	a	<50	<250	64	3.4	<0.5	<0.5	<0.5	<0.5	-
	8/8/2013	g	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
	10/24/2013	a,g	<50	<250	130	5.2	<0.5	0.73	1.9	<0.5	-
	1/21/2014		<50	<250	190	5.4	<0.5	<0.5	1.3	<0.5	-

Table 8

Groundwater Monitoring Analytical Data (TPHs, BTEX, MTBE & Lead) - Monitoring Wells

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
			by EPA Methods 8020, 8021B, or 8260B								EPA 200.8
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
DPE-1	12/6/2011	a	-	-	9,200	1,800	570	460	1,100	<50	-
	1/24/2012	a	-	-	3,200	170	58	<5.0	620	<5.0	-
	5/18/2012	f	280	<250	540	49	<1.0	<1.0	17	<1.0	-
	7/11/2012	a	860	<250	2,300	240	15	98	88	<5.0	-
	11/16/2012	c	360	<250	580	3.3	<0.5	2.2	2.8	<0.5	-
	2/27/2013	a,c	110	<250	270	1.4	<0.5	0.53	5.3	<0.5	-
	5/1/2013	a,c	74	<250	330	0.90	<0.5	1.9	10	<0.5	-
	8/8/2013	g	-	-	-	18	<5.0	35	39	<5.0	-
	10/24/2013	a,g	530	<250	610	6.1	0.78	3.6	3.5	<0.5	-
DPE-2	12/6/2011	a	-	-	22,000	2,100	3,300	650	3,300	<100	-
	1/24/2012	a	-	-	1,100	44	26	11	150	<2.5	-
	5/18/2012	f	<50	<250	220	33	3.2	<0.5	30	<0.5	-
	7/11/2012	a	400	<250	2,600	300	12	45	390	<10	-
	11/16/2012		<50	<250	<50	3.4	<0.5	<0.5	<0.5	<0.5	-
	2/27/2013	h	99	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	5/1/2013	a,c	57	<250	180	37	1.3	3.1	3.2	<0.5	-
	8/8/2013	g	-	-	-	360	<5.0	30	11	<5.0	-
		Well Decommissioned Prior to Excavation - October 2013									
DPE-3	12/6/2011	a	-	-	6,400	550	560	180	1,000	<17	-
	1/24/2012	a	-	-	5,500	290	240	44	1,000	<5.0	-
	5/18/2012	f	260	<250	1,100	78	37	11	89	<1.7	-
	7/11/2012	a	720	<250	2,400	330	19	10	130	<10	-
		Well Decommissioned Prior to Excavation - 2012									
DPE-4	1/24/2012	a	-	-	730	66	6.0	7.1	83	2.5	-
	5/18/2012	f	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	7/11/2012		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	11/16/2012		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	2/27/2013		<50	<250	<50	0.63	<0.5	<0.5	<0.5	<0.5	-
	5/1/2013	a,h	53	<250	210	19	<0.5	<0.5	<0.5	<0.5	
	8/2/2013		-	-	-	12	<0.5	<0.5	<0.5	<0.5	-
	10/24/2013	a	76	<250	170	4.4	<0.5	<0.5	0.53	<0.5	-
DPE-5	11/16/2012	h	560	1,400	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	2/27/2013	a,c,h	1,200	2,600	3,900	440	370	120	570	<10	-
	5/1/2013	Well not sampled due to the presence of free product (Thickness of 0.17')									
	8/2/2013	Well not sampled due to the presence of free product (Thickness of 0.09')									
		Well Decommissioned Prior to Excavation - October 2013									
DPE-6	1/24/2012	a	-	-	64*	<0.5	<0.5	<0.5	3.2	<0.5	-
	5/18/2012	f	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	7/11/2012	g	<50	<250	<50	0.93	<0.5	<0.5	<0.5	<0.5	-
	11/16/2012		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	2/27/2013	h	160	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	5/1/2013	i	1,200	1,100	<50	0.58	<0.5	<0.5	<0.5	<0.5	-
	8/2/2013		-	-	-	0.53	<0.5	<0.5	<0.5	<0.5	-
	10/24/2013		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-

Table 8

Groundwater Monitoring Analytical Data (TPHs, BTEX, MTBE & Lead) - Monitoring Wells

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
			by EPA Methods 8020, 8021B, or 8260B								EPA 200.8
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
DPE-8	11/16/2012	c	460	<250	630	13	<0.5	1.1	19	<0.5	-
	2/27/2013		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	5/1/2013	a,c	92	<250	140	8.0	<0.5	<0.5	<0.5	<0.5	-
	10/24/2013	a	<50	<250	63	<0.5	<0.5	<0.5	<0.5	<0.5	-
DPE-9	1/24/2012	a	<50	<250	4,400	160	390	93	1,100	<5.0	-
	7/11/2012	a	680	<250	1,300	47	3.1	4.0	100	<1.7	-
	11/16/2012	c	470	<250	530	4.7	<0.5	0.78	2.3	<0.5	-
	2/27/2013	b	2,200	<250	3,300	5.5	<0.5	5.7	<0.5	16	-
	5/1/2013	a,c	1,300	<250	1,700	5.4	<0.5	5.6	11	<0.5	-
	8/2/2013		-	-	-	3.9	<0.5	<0.5	<0.5	<0.5	-
	10/24/2013	g	<50	<250	<50	0.58	<0.5	<0.5	<0.5	<0.5	-
DPE-10	5/18/2012	f	420	<250	1,700	150	<5.0	<5.0	<5.0	160	-
	7/11/2012	a	160	<250	360	40	<1.0	<1.0	<1.0	<1.0	-
	11/16/2012		<50	<250	79	4.9	<0.5	<0.5	<0.5	<0.5	-
	2/27/2013	a	660	<250	820	5.3	<0.5	6.0	<0.5	4.4	-
	5/1/2013	a,c	2,600	<250	3,700	56	<1.7	95	82	<1.7	-
	8/2/2013		-	-	-	8.2	<0.5	<0.5	<0.5	<0.5	-
	10/24/2013	a,g	57	<250	97	2.2	<0.5	<0.5	<0.5	<0.5	-
DPE-11	5/18/2012	f	260	<250	930	6.4	4.6	4.6	160	<1.2	-
	7/11/2012	a	1,600	<250	2,400	16	<1.0	14	57	<1.0	-
	11/16/2012	c	540	<250	860	5.3	<0.5	0.81	1.2	<0.5	-
	2/27/2013		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	5/1/2013		<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	10/24/2013	a,g	340	<250	490	4.7	<0.5	2.9	0.80	<0.5	-
ESL			100	100	100	1.0	40	30	20	5.0	2.5

TPH-g= total petroleum hydrocarbons as gasoline
TPH-d= total petroleum hydrocarbons as diesel
TPH-mo= total petroleum hydrocarbons as motor oil
BTEX= Benzene, Toluene, Ethylbenzene, Xylenes
MTBE = Methyl tertiary butyl ether
"-" = Not analyzed or data not available
µg/L = micrograms per liter (ppb)
ESL = Environmental Screening Levels, Table F-1a, Groundwater, Potential Drinking Water, San Francisco Regional Water Quality Control Board, Revised December 2013

a = Laboratory note indicates the unmodified or weakly modified gasoline is significant.
b = Laboratory note indicates heavier gasoline range compounds are significant (aged gas?).
c = Laboratory note indicates gasoline range compounds are significant with no recognizable pattern.
d = Laboratory note indicates that lighter gasoline range coounds (the most mobile fraction) are significant.
e = Laboratory note indicates that one to a few isloated non-targed peaks are present.
f = Laboratory note indicates that low surrogate due to matrix interference.
g = Surrogate recovery exceeds the control limits due to dilution / matrix interference / coelution / presence of surrogate compound in the sample
h = Laboratory note indicates that diesel & oil range compounds are significant
i = Laboratory note indicates that aged diesel is significant
* Total petroleum hydrocarbons as diesel = <50; Total petroleum hydrocarbons as motor oil = <250

Table 9

Groundwater Monitoring Analytical Data (VOCs) - Monitoring Wells

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample I.D.	Date	Notes	TAME	t-Butyl alcohol (TBA)	EDB	1,2-DCA	DIPE	Ethanol	ETBE	2-Butanone	n-Butyl benzene	sec-Butyl benzene	Isopropylbenzene	cis-1,2-Dichloroethene	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	Naphthalene	n-Propyl benzene	Methanol	PCE	TCE	Chloroform	Other VOCs
			by EPA Methods 8020, 8021B, or 8260B (µg/L)																				
MW-1	1/16/2001	a	<5.0	<25	<5.0	<5.0	<5.0	-	<5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/27/2002	a	<5.0	<50	<5.0	<5.0	<5.0	-	<5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/2002	a	-	-	<2.5	<2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/20/2003	d	-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/11/2003	a	-	-	<2.5	<2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/3/2008	a	<1.0	<4.0	<1.0	<1.0	<1.0	<100	<1.0	-	-	-	-	-	-	-	-	-	<1,000	-	-	-	-
	6/23/2011	a	<2.5	<10	-	-	<2.5	-	<2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/6/2011	a	<5.0	<20	-	-	<5.0	-	<5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/24/2013		<1.0	<4.0	<1.0	<1.0	<1.0	-	<1.0	<4.0	<1.0	1.3	3.6	<1.0	6.4	29	**19**	3.3	-	<1.0	<1.0	<1.0	<RL
MW-2	1/16/2001	a	<30	<150	<30	<30	<30	-	<30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/27/2002	a	<5.0	<5.0	<5.0	6.1	<5.0	-	<5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/2002	a	-	-	<12	<12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/20/2003	a	-	-	<5.0	5.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/11/2003	a	-	-	<25	<25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/3/2008	a	<2.5	<10	<2.5	<2.5	<2.5	<250	<2.5	-	-	-	-	-	-	-	-	-	<2,500	-	-	-	-
	6/23/2011	a	<50	<200	-	-	<50	-	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/6/2011	a	<50	<200	-	-	<50	-	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/24/2013		<0.5	13	<0.5	<0.5	<0.5	-	<0.5	<2.0	1.7	2.4	1.1	<0.5	1.9	4.6	**24**	0.75	-	<0.5	**5.5**	<0.5	<RL[h]
MW-3	1/16/2001	a	<1.0	<5.0	<1.0	1.4	<1.0	-	<1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/27/2002		<0.5	<5.0	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/2002	a	-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/20/2003		-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/11/2003		-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/3/2008	a	<5.0	<20	<5.0	<5.0	<5.0	<500	<5.0	-	-	-	-	-	-	-	-	-	<5,000	-	-	-	-
	6/23/2011	a	<12	<50	-	-	<12	-	<12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/6/2011	a	<17	<67	-	-	<17	-	<17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/2/2013	g	<2.5	**22**	<2.5	<2.5	<2.5	-	<2.5	<10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	-	<2.5	**63**	<2.5	<RL
	10/24/2013		<1.2	5.9	<1.2	<1.2	<1.2	-	<1.2	<5.0	<1.2	<1.2	<1.2	1.3	<1.2	1.4	**24**	<1.2	-	<1.2	**64**	<1.2	<RL

Table 9

Groundwater Monitoring Analytical Data (VOCs) - Monitoring Wells

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample I.D.	Date	Notes	TAME	t-Butyl alcohol (TBA)	EDB	1,2-DCA	DIPE	Ethanol	ETBE	2-Butanone	n-Butyl benzene	sec-Butyl benzene	Isopropylbenzene	cis-1,2-Dichloroethene	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	Naphthalene	n-Propyl benzene	Methanol	PCE	TCE	Chloroform	Other VOCs
			by EPA Methods 8020, 8021B, or 8260B (µg/L)																				
MW-4	4/3/2008		<0.5	<2.0	<0.5	<0.5	<0.5	<50	<0.5	-	-	-	-	-	-	-	-	-	<500	-	-	-	-
	6/23/2011	a	<0.5	<2.0	-	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/8/2013	g	<0.5	<2.0	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	**5.4**	**13**	<0.5	<RL
	10/24/2013		<0.5	<2.0	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	**13**	**18**	9.8	<RL
	1/21/2014		<0.5	<2.0	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	**12**	**19**	7.1	<RL
MW-5	1/16/2001		<1.0	<5.0	<1.0	<1.0	<1.0	-	<1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/27/2002		<0.5	<5.0	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/2002	a	-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/20/2003		-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/11/2003	a	-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/3/2008	a	<10	<40	<10	<10	<10	<1,000	<10	-	-	-	-	-	-	-	-	-	<10,000	-	-	-	-
	6/23/2011	a	<0.5	<2.0	-	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/8/2013	g	<0.5	<2.0	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	**8.3**	**16**	7.4	<RL
	10/24/2013		<0.5	<2.0	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	<0.5	<0.5	0.59	<0.5	8.0	1.3	<0.5	-	**6.7**	**16**	<0.5	<RL
	1/21/2014		<0.5	<2.0	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	<0.5	<0.5	0.80	<0.5	5.6	1.3	<0.5	-	**6.4**	**15**	<0.5	<RL
DPE-1	12/6/2011	a	<50	<200	-	-	<50	-	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/8/2013	g	<5.0	<20	<5.0	<5.0	<5.0	-	<5.0	<20	<5.0	<5.0	12	<5.0	<5.0	140	**22**	20	-	<5.0	<5.0	<5.0	<RL
	10/24/2013		<0.5	9.5	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	1.9	3.5	<0.5	<0.5	14	<0.5	4.2	-	<0.5	<0.5	<0.5	<RL[i]
DPE-2	12/6/2011	a	<100	<400	-	-	<100	-	<100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/8/2013	g	<5.0	**41**	<5.0	<5.0	<5.0	<5.0	-	<20	<5.0	<5.0	8.9	<5.0	<5.0	87	**8.7**	6.6	-	**11**	<5.0	<5.0	<RL
		Well Decommissioned Prior to Excavation - October 2013																					
DPE-3	12/6/2011	a	<17	<67	-	-	<17	-	<17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Well Decommissioned Prior to Excavation - 2012																					
DPE-4	8/2/2013	g	<0.5	**13**	<0.5	**2.6**	<0.5	-	<0.5	2.7	0.59	3.7	0.55	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	2.3	<0.5	<RL
	10/24/2013		<0.5	**16**	<0.5	**4.1**	<0.5	-	<0.5	<2.0	<0.5	2.1	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	1.7	<0.5	<RL[i]
DPE-5	5/1/2013	Well not sampled due to the presence of free product (Thickness of 0.17')																					
	8/2/2013	Well not sampled due to the presence of free product (Thickness of 0.09')																					
		Well Decommissioned Prior to Excavation - October 2013																					

Table 9

Groundwater Monitoring Analytical Data (VOCs) - Monitoring Wells

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample I.D.	Date	Notes	TAME	t-Butyl alcohol (TBA)	EDB	1,2-DCA	DIPE	Ethanol	ETBE	2-Butanone	n-Butyl benzene	sec-Butyl benzene	Isopropylbenzene	cis-1,2-Dichloroethene	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	Naphthalene	n-Propyl benzene	Methanol	PCE	TCE	Chloroform	Other VOCs
			by EPA Methods 8020, 8021B, or 8260B (µg/L)																				
DPE-6	8/2/2013	g	<0.5	2.3	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.5	1.6	<0.5	<RL
	10/24/2013		<0.5	<2.0	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	<0.5	<0.5	0.73	<0.5	<0.5	<0.5	<0.5	-	1.3	2.5	<0.5	<RL[k]
DPE-8	10/24/2013		<0.5	<2.0	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	0.9	<0.5	<0.5	3.4	<0.5	<0.5	<0.5	-	<0.5	0.67	<0.5	<RL
DPE-9	8/2/2013	g	<0.5	2.6	<0.5	<0.5	<0.5	-	<0.5	<2.0	0.62	1.2	<0.5	4.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	**21**	<0.5	<RL
	10/24/2013		<0.5	<2.0	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	<0.5	<0.5	**7.0**	<0.5	<0.5	<0.5	<0.5	-	<0.5	**31**	<0.5	<RL
DPE-10	8/2/2013	g	<0.5	4.6	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	0.86	<0.5	1.5	1.0	<0.5	<0.5	<0.5	-	<0.5	**26**	<0.5	<RL
	10/24/2013		<0.5	2.3	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	<0.5	<0.5	2.5	0.63	<0.5	<0.5	<0.5	-	<0.5	**29**	<0.5	<RL
DPE-11	10/24/2013		<0.5	10	<0.5	<0.5	<0.5	-	<0.5	<2.0	<0.5	5.1	3.6	0.73	<0.5	1.5	<0.5	1.9	-	<0.5	**5.6**	<0.5	<RL[l]
ESL	--		NE	12	0.05	0.5	NE	NE	NE	NE	NE	NE	NE	6.0	NE	NE	6.1	NE	NE	5.0	5.0	80	--

VOCs= Volatile Organic Compounds
PCE= Tetrachloroethene
TCE= Trichloroethene
TAME = Tertiary amyl methyl ether
TBA = Tertiary butyl alcohol
EDB = 1,2-Dibromoethane
1,2-DCA = 1,2-Dichloroethane
DIPE = Diisopropyl ether
ETBE = Ethyl tertiary butyl ether

µg/L = micrograms per liter (ppb)
<RL = Below the analytical laboratroy reporting limit unless otherwise noted. Reporting limits are below the ESL if applicable.
"-" = Not analyzed or data not available
12 = Values in bold exceed the ESL
NE = No ESL value established

a = Laboratory note indicates the unmodified or weakly modified gasoline is significant.
d = Laboratory note indicates that lighter gasoline range compounds (the most mobile fraction) are significant.
g = Surrogate recovery exceeds the control limits due to dilution / matrix interference / coelution / presence of surrogate compound in the sample
h = 4-Isopropyl toluene detected at 0.89 ug/L and 1,3,5-Trimethylbenzene detected at 1.7 ug/L - no ESLs established.
i = 4-Isopropyl toluene detected at 1.4 ug/L (no ESL). j = 4-Isopropyl toluene detected at 0.60 ug/L (no ESL).
k = 1,1-Dichloroethane detected at 0.77 ug/L (ESL =5.0 ug/L). l = 4-Isopropyl toluene detected at 1.5 ug/L (no ESL).

ESL = Environmental Screening Levels, Table F-1a, Groundwater, Potential Drinking Water, San Francisco Regional Water Quality Control Board, Revised December 2013

Table 10

Soil Vapor Analytical Data

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample ID	Date	Isopropyl Alcohol* (µg/m³)	Helium** (%)	TPH-g & TVH (µg/m³)	Benzene (µg/m³)	Toluene (µg/m³)	Ethyl-benzene (µg/m³)	Xylenes (µg/m³)	TBA (µg/m³)	MTBE (µg/m³)	TAME (µg/m³)	DIPE (µg/m³)	ETBE (µg/m³)	PCE (µg/m³)	TCE (µg/m³)	Naphthalene (TO-17) (µg/m³)	4-Ethyltoluene (µg/m³)	4-Methyl-2-Pentanone (µg/m³)	1,1,1-Trichloroethane (µg/m³)	1,2,4-Trimethylbenzene (µg/m³)	Tetrahydrofuran (µg/m³)	1,3,5-Trimethylbenzene (µg/m³)	Other VOCs (µg/m³)	CO2 (µL/L)	Methane (µL/L)	Nitrogen (µL/L)	Oxygen (µL/L)
VP-1	5/17/2012	<50	na	<1,800	<6.5	<7.7	<8.8	<27	<62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/12/2012	<50	na	<1,800	<6.5	<7.7	<8.8	<27	<62	<7.3	<8.5	<8.5	<8.5	-	-	<11	-	-	-	-	-	-	-	17,000	<1.0	-	160,000
	11/16/2012	<50	na	<2,700	<9.7	<11	<13	<40	<93	<11	<13	<13	<13	63	<16	<16	<15	<12	<16	<15	<9.0	<15	500[a]	25,000	<1.5	750,000	180,000
	2/27/2013	<50	na	<1,800	<6.5	<7.7	<8.8	<27	<62	<7.3	<8.5	<8.5	<8.5	30	<11	<11	<10	<8.3	<11	<10	<6.0	<10	<RL	15,000	<1.0	710,000	180,000
VP-2	5/17/2012	<50	na	<1,800	<6.5	<7.7	<8.8	<27	<62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/12/2012	<50	na	<1,800	<6.5	<7.7	<8.8	<27	230	<7.3	<8.5	<8.5	<8.5	-	-	<11	-	-	-	-	-	-	-	13,000	<1.0	-	160,000
	11/16/2012	<50	na	<1,800	<6.5	<7.7	<8.8	<27	95	<7.3	<8.5	<8.5	<8.5	72	<11	<11	<10	<8.3	<11	<10	<6.0	<10	230[a], 110[b]	23,000	<1.0	610,000	180,000
	2/27/2013	<50	na	<2,700	<9.7	<11	<13	<40	<93	<11	<13	<13	<13	28	<11	<16	<10	<8.3	<11	<10	<6.0	<10	<RL	13,000	<1.5	710,000	190,000
VP-3	5/17/2012	<50	na	<1,800	<6.5	<7.7	<8.8	<27	<62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/12/2012	290	na	<1,800	<6.5	<7.7	<8.8	<27	<62	<7.3	<8.5	<8.5	<8.5	-	-	<11	-	-	-	-	-	-	-	24,000	1.1	-	160,000
	11/16/2012	<50	na	<1,900	<6.9	<8.2	<9.3	<29	<66	<7.7	<9.0	<9.0	<9.0	ND<15	<12	<12	<11	<8.8	<12	<11	<6.4	<11	260[a]	8,500	1.5	630,000	210,000
	2/27/2013	<50	na	<2,700	<9.7	<11	<13	<40	<93	<11	<13	<13	<13	ND<14	<11	<16	<10	<8.3	<11	<10	<6.0	<10	<RL	3,700	1.1	710,000	190,000
SV-1	4/16/2013	na	0.017	<2500	<25	<25	<25	<25	-	-	-	-	-	<25	<25	<25	-	-	-	-	-	-	<RL	3,400	<2.0	-	170,000
SV-2	4/16/2013	na	0.018	<2500	<25	<25	<25	<25	-	-	-	-	-	<25	<25	<25	-	-	-	-	-	-	<RL	4,600	1.8	-	170,000
SV-3	4/16/2013	na	<0.005	<2500	<25	<25	<25	<25	-	-	-	-	-	<25	<25	<25	-	-	-	-	-	-	<RL	160	<2.0	-	170,000
	8/21/2013	<50	na	-	<6.5	<7.7	<8.8	<27	<6.2	<7.3	<8.5	<8.5	<8.5	110	<11	<11	<10	<8.3	<11	<10	<6.0	<10	<RL	-	-	-	-
	10/24/2013	na	0.12	<720	<1.6	<1.9	<2.2	<6.6	<31	<1.8	<2.1	<2.1	<2.1	57	<2.8	-	<2.5	<2.1	<2.8	<3.8	3.5	<2.5	2.6[h]	2,300	<1.3	-	160,000
SV-4	4/16/2013	na	<0.005	<2500	<25	<25	<25	<25	-	-	-	-	-	<25	<25	<25	-	-	-	-	-	-	<RL	4,200	<2.0	-	170,000
	8/21/2013	370	na	-	<6.5	<7.7	<8.8	<27	<6.2	<7.3	<8.5	<8.5	<8.5	850	<11	<11	<10	<8.3	17	<10	<6.0	<10	<RL	-	-	-	-
	10/24/2013	na	0.032	<720	<1.6	<1.9	<2.2	<6.6	<31	<1.8	<2.1	<2.1	<2.1	500	<2.8	-	<2.5	<2.1	8.2	<3.8	2.1	<2.5	2.5[h]	2,500	<1.2	-	160,000
	11/25/2013	na	0.051	<720	<1.6	<1.9	<2.2	<6.6	<31	<1.8	<2.1	<2.1	<2.1	210	<2.8	-	<2.5	<2.1	4.3	<3.8	<1.5	<2.5	0.77[o]	1,700	-	-	150,000
SV-5	5/3/2013	na	-	<2500	<25	<25	<25	<25	-	-	-	-	-	100	<25	<25	-	-	-	-	-	-	<RL	12,000	<2.0	-	170,000
	8/21/2013	<50	na	-	<6.5	<7.7	<8.8	<27	<6.2	<7.3	<8.5	<8.5	<8.5	280	<11	<11	<10	<8.3	<11	<10	<6.0	<10	<RL	-	-	-	-
SV-6	4/16/2013	na	0.081	<2500	<25	<25	<25	<25	-	-	-	-	-	<25	<25	<25	-	-	-	-	-	-	<RL	260	1.2	-	18,000
	8/21/2013	na	<0.005	-	<6.5	<7.7	<8.8	<27	<6.2	<7.3	<8.5	<8.5	<8.5	70	65	<11	<10	<8.3	<11	<10	<6.0	<10	<RL	-	-	-	-
	10/24/2013	na	0.084	880	<1.6	<1.9	<2.2	<6.6	<31	<1.8	<2.1	<2.1	<2.1	46	29	-	<2.5	<2.1	<2.8	<3.8	5.3	<2.5	6.5[i,j]	17,000	<1.0	-	150,000
SV-7	4/16/2013	na	0.013	<2500	<25	<25	<25	<25	-	-	-	-	-	<25	<25	<25	-	-	-	-	-	-	<RL	10,000	<2.0	-	160,000
	8/21/2013	na	0.012	-	<6.5	<7.7	<8.8	<27	<6.2	<7.3	<8.5	<8.5	<8.5	<14	<11	<11	<10	<8.3	<11	<10	<6.0	<10	<RL	-	-	-	-
	10/24/2013	na	0.022	<720	<1.6	<1.9	<2.2	<6.6	<31	<1.8	<2.1	<2.1	<2.1	<3.4	<2.8	-	<2.5	<2.1	<2.8	<3.8	16	<2.5	2.3[i]	12,000	<1.3	-	160,000
SV-8	8/5/2013	na	0.038	-	16	23	<8.8	42	<6.2	<7.3	<8.5	<8.5	<8.5	<14	<11	<23	<10	23	<11	12	9.5	<10	<RL	18,000	-	-	160,000
	8/21/2013	na	<0.005	-	<6.5	<7.7	<8.8	<27	<6.2	<7.3	<8.5	<8.5	<8.5	<14	<11	<11	<10	<8.3	<11	<10	<6.0	<10	<RL	-	-	-	-
	10/24/2013	na	0.12	<720	<1.6	<1.9	<2.2	<6.6	<31	<1.8	<2.1	<2.1	<2.1	5.2	<2.8	-	<2.5	<2.1	<2.8	<3.8	<1.5	<2.5	<RL	29,000	<1.2	-	130,000
SV-9	8/5/2013	na	0.30	-	<6.5	10	<8.8	<27	<6.2	<7.3	<8.5	<8.5	<8.5	<14	<11	<6.2	<10	9.1	<11	<10	<6.0	<10	<RL	12,000	-	-	160,000
	8/21/2013	na	0.059	-	<6.5	<7.7	<8.8	<27	<6.2	<7.3	<8.5	<8.5	<8.5	<14	<11	<11	<10	<8.3	<11	<10	<6.0	<10	<RL	-	-	-	-
	10/24/2013	na	0.019	<720	<1.6	<1.9	<2.2	<6.6	<31	<1.8	<2.1	<2.1	<2.1	5.4	<2.8	-	<2.5	<2.1	<2.8	<3.8	<1.5	<2.5	<RL	7,300	<1.2	-	170,000
SV-10	8/5/2013	na	0.011	-	27	60	19	110	<6.2	<7.3	<8.5	<8.5	<8.5	720	100	<25	12	28	43	38	9.4	13	<RL[c]	6,300	-	-	170,000
	8/21/2013	<20,000	na	-	8.9	<7.7	<8.8	<27	<6.2	<7.3	<8.5	<8.5	<8.5	2,100	160	<11	<10	<8.3	57	<10	<6.0	<10	<RL[c]	-	-	-	-

Table 10

Soil Vapor Analytical Data

AEI Project No. 298931, 1630 Park Street (Parcel B), Alameda, CA

Sample ID	Date	Isopropyl Alcohol* ($\mu g/m^3$)	Helium** (%)	TPH-g & TVH ($\mu g/m^3$)	Benzene ($\mu g/m^3$)	Toluene ($\mu g/m^3$)	Ethyl-benzene ($\mu g/m^3$)	Xylenes ($\mu g/m^3$)	TBA ($\mu g/m^3$)	MTBE ($\mu g/m^3$)	TAME ($\mu g/m^3$)	DIPE ($\mu g/m^3$)	ETBE ($\mu g/m^3$)	PCE ($\mu g/m^3$)	TCE ($\mu g/m^3$)	Naphthalene (TO-17) ($\mu g/m^3$)	4-Ethyltoluene ($\mu g/m^3$)	4-Methyl-2-Pentanone ($\mu g/m^3$)	1,1,1-Trichloroethane ($\mu g/m^3$)	1,2,4-Trimethylbenzene ($\mu g/m^3$)	Tetrahydrofuran ($\mu g/m^3$)	1,3,5-Trimethylbenzene ($\mu g/m^3$)	Other VOCs ($\mu g/m^3$)	CO2 (µL/L)	Methane (µL/L)	Nitrogen (µL/L)	Oxygen (µL/L)
SV-11	8/21/2013	na	0.013	-	7,500	4,300	5,700	17,000	<25	<29	<34	<34	<34	2,100	<44	<44	860	<33	130	1,500	<24	700	<RL[a,f,g]	-	-	-	-
SV-12	8/21/2013	na	0.056	-	11	19	10	47	<6.2	<7.3	<8.5	<8.5	<8.5	31	<11	<11	<10	<8.3	<11	19	18	<10	<RL[d,e]	-	-	-	-
	10/24/2013	na	0.072	<720	<1.6	<1.9	<2.2	<6.6	<31	<1.8	<2.1	<2.1	<2.1	40	<2.8	-	<2.5	<2.1	<2.8	<3.8	<1.5	<2.5	2.5[k,h]	29,000	<1.0	-	150,000
SV-13	10/24/13	na	0.037	9,000	190	220	37	390	<31	<1.8	<2.1	<2.1	<2.1	390	5.3	-	30	<2.1	4.2	87	<1.5	69	<RL[L]	18,000	2.2	-	150,000
	11/25/13	na	1.6	<720	<1.6	<1.9	<2.2	<6.6	<31	<1.8	<2.1	<2.1	<2.1	420	3.5	-	<2.5	<2.1	<2.8	<2.5	<1.5	<2.5	0.76[o]	41000	-	-	100,000
SV-13 DUP	10/24/13	na	0.0091	9,300	190	200	35	370	<31	<1.8	<2.1	<2.1	<2.1	360	5.3	-	29	<2.1	5.0	79	<1.5	66	<RL[n]	18,000	2.2	-	140,000
SV-14	10/24/13	na	0.013	2,400	30	38	9.9	32	<31	<1.8	<2.1	<2.1	<2.1	79	<2.8	-	9.0	4.8	<2.8	4.9	<1.5	5.5	<RL[m]	3,000	1.5	-	150,000
SV-15	10/24/13	na	0.038	<720	3.8	6.0	2.4	10	<31	<1.8	<2.1	<2.1	<2.1	75	<2.8	-	<2.5	3.1	<2.8	3.2	<1.5	<2.5	2.3[k],2.9[h]	8,500	<1.0	-	140,000
ESL		na	NA	2,500,000	420	1,300,000	4,900	440,000	--	47,000	--	--	--	2,100	3,000	360	--	--	22,000,000	--	--	--	na	na	na	na	na

Notes:

µg/m3 = micrograms per cubic meter (ppbv)
* = Leak check compound
<1.0 = Not detected above the laboratory reporting limit shown
na = Not applicable
- = Not analyzed
-- = No value established
<RL = Below the analytical laboratroy reporting limit unless otherwise noted. Reporting limits are below the ESL if applicable.
ESL = Environmental Screening Levels, Table E-2, San Francisco Regional Water Quality Control Board (Commercial/Industrial, Shallow Soil, Drinking Water Aquifer), Revised December 2013
TPH-g = total petroleum hydrocarbons as gasoline
TVH = Total volatile hydrocarbons -aliphatics
TBA = tert-Butyl-alchohol
MTBE = Methyl-tert-butyl ether
TAME = Tert-amyl methyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tert-butyl ether
PCE = Tetrachloroethene
TCE = Trichloroethene
a = Hexane detected (no ESL established)
b = Ethanol detected (no ESL established)
c = Acetone detected below ESL (1.4 E+08)
d = Styrene detected below ESL (3.9 E+06)
e = 1,3-Butadiene detected (no ESL established)
f = Heptane detected (no ESL established)
g = 1,1,2,2-Tetrachloroethane detected below ESL (210 $\mu g/m^3$)
h = dichlorodifluoromethane detected (no ESL established)
i= Ethyl acetate (no ESL established)
j= 2-Hexanone (no ESL established
k= carbon disulfide (no ESL established)
o= 1,2-Dibromo-3-chloropropane (no ESL established)

[L] = Following VOCs detected: Acetone (100), Bromomethane (9.5), Carbon Disulfide (14), Cyclohexane (110), 1,2-Dichloroethane (4.0), Ethyl Acetate (4.2), Heptane (57), Hexane (69), and Methylene chloride (3.5).

[m] = Following VOCs detected: Carbon Disulfide (6.7), Chloroform (3.9), Cyclohexane (93), Hexane (24), and Styrene (3.9).

[n] = Following VOCs detected: Acetone (82), Bromomethane (10), Carbon Disulfide (12), Cyclohexane (110), 1,2-Dichloroethane (3.7), Ethyl Acetate (5.8), Heptane (55), Hexane (65), and Methylene chloride (3.6).

** = Leak check compound; <5% of Tracer Concentration is Acceptable; or 1% assuming a 20% atmosphere was maintained.

Soil Vapor Sample was over-excavated during source removal activities

Table 11

Groundwater Elevation Data

AEI Project No. 298931, 1620-1640 Park Street, Alameda, CA

Well ID (Screen Interval)	Date Collected	Well Elevation *(ft ams/*)*	Depth to Water *(ft)*	Groundwater Elevation *(ft ams/*)*
MW-1 (5 - 20 feet bgs)	Jul-89	104.76	8.93	95.83
	Apr-91		7.59	97.17
	Jul-92		8.72	96.04
	Aug-92		9.09	95.67
	Sep-92		9.25	95.51
	Oct-92		9.34	95.42
	Nov-92		9.21	95.55
	Dec-92		9.26	95.50
	Jan-93		7.81	96.95
	Feb-93		7.32	97.44
	Mar-93		7.20	97.56
	Apr-93		7.31	97.45
	May-93		8.29	96.47
	Jul-93		8.30	96.46
	Oct-93		9.38	95.38
	Jan-94		8.80	95.96
	Apr-94		8.15	96.61
	Jul-94		8.70	96.06
	Oct-94		9.37	95.39
	Jan-94		7.18	97.58
	Apr-95		6.76	98.00
	Jan-97		7.03	97.73
	Nov-98		8.10	96.66
	Jan-01		7.70	97.06
	Jun-02		7.30	97.46
	Nov-02		8.14	96.62
	Feb-03		6.87	97.89
	Jun-03		7.05	97.71
	Apr-08	25.42	7.13	18.29
	Jun-11	25.42	7.54	17.88
	Dec-11	25.37	8.02	17.35
	Jan-12	25.37	8.08	17.29
	May-12	25.37	6.87	18.50
	Jul-12	25.37	7.34	18.03
	Nov-12	25.37	8.23	17.14
	Feb-13	25.37	6.55	18.82
	May-13	25.37	7.03	18.34
	Oct-13	25.37	9.10	16.27
MW-2 (5 - 20 feet bgs)	Jul-89	104.86	9.24	95.62
	Apr-91		8.01	96.85
	Jul-92		9.03	95.83
	Aug-92		9.34	95.52
	Sep-92		9.46	95.40
	Oct-92		9.52	95.34
	Nov-92		9.42	95.44
	Dec-92		9.47	95.39
	Jan-93		8.25	96.61
	Feb-93		7.85	97.01
	Mar-93		7.77	97.09
	Apr-93		7.86	97.00
	May-93		8.20	96.66
	Jul-93		8.72	96.14
	Oct-93		9.64	95.22
	Jan-94		9.12	95.74
	Apr-94		8.56	96.30
	Jul-94		9.02	95.84
	Oct-94		9.59	95.27
	Jan-94		7.71	97.15
	Apr-95		7.40	97.46
	Jan-97		7.55	97.31
	Nov-98		8.49	96.37
	Jan-01		8.08	96.78
	Jun-02		7.77	97.09
	Nov-02		8.50	96.36
	Feb-03		7.38	97.48
	Jun-03		7.57	97.29
	Apr-08	25.52	7.67	17.85
	Jun-11	25.52	7.35	18.17
	Dec-11	25.48	8.41	17.07
	Jan-12	25.48	8.43	17.05
	May-12	25.48	7.41	18.07
	Jul-12	25.48	7.83	17.65
	Nov-12	25.48	8.51	16.97
	Feb-13	25.48	7.17	18.31
	May-13	25.48	7.67	17.81
	Oct-13	25.48	9.37	16.11

Table 11

Groundwater Elevation Data

AEI Project No. 298931, 1620-1640 Park Street, Alameda, CA

Well ID (Screen Interval)	Date Collected	Well Elevation *(ft amsl*)*	Depth to Water *(ft)*	Groundwater Elevation *(ft amsl*)*
MW-3	Jul-89	104.52	9.00	95.52
(5 - 20 feet bgs)	Apr-91		8.06	96.46
	Jul-92		8.82	95.70
	Aug-92		9.05	95.47
	Sep-92		9.09	95.43
	Oct-92		9.15	95.37
	Nov-92		9.05	95.47
	Dec-92		9.12	95.40
	Jan-93		8.18	96.34
	Feb-93		7.98	96.54
	Mar-93		7.94	96.58
	Apr-93		8.02	96.50
	May-93		7.69	96.83
	Jul-93		8.65	95.87
	Oct-93		9.32	NC
	Jan-94		8.93	NC
	Apr-94		8.52	96.00
	Jul-94		8.86	95.66
	Oct-94		9.25	95.27
	Jan-94		7.85	96.67
	Apr-95		7.64	96.88
	Jan-97		7.75	96.77
	Nov-98		8.38	96.14
	Jan-01		8.00	96.52
	Jun-02		7.81	96.71
	Nov-02		8.37	96.15
	Feb-03		7.48	97.04
	Jun-03		7.67	96.85
	Apr-08	25.17	7.74	17.43
	Jun-11	25.17	7.50	17.67
	Dec-11	25.13	8.25	16.88
	Jan-12	25.13	8.25	16.88
	May-12	25.13	7.64	17.49
	Jul-12	25.13	7.97	17.16
	Nov-12	25.13	8.40	16.73
	Feb-13	25.13	7.49	17.64
	May-13	25.13	8.07	17.06
	Aug-13	25.13	8.68	16.45
	Oct-13	25.13	9.25	15.88
MW-4	Apr-94	104.86	9.29	95.57
(8 - 23 feet bgs)	Jul-94		9.55	95.31
	Oct-94		9.83	95.03
	Jan-94		8.88	95.98
	Apr-95		8.80	96.06
	Jan-97		-	-
	Nov-98		-	-
	Jan-01		-	-
	Jun-02		-	-
	Nov-02		-	-
	Feb-03		-	-
	Jun-03		-	-
	Apr-08	25.53	8.73	16.80
	Jun-11	25.53	8.52	17.01
	Dec-11	25.58	-	-
	Jan-12	25.58	-	-
	May-12	25.58	8.96	16.62
	Jul-12	25.58	9.26	16.32
	Nov-12	25.58	10.04	15.54
	Feb-13	25.58	9.15	16.43
	May-13	25.58	9.37	16.21
	Aug-13	25.58	9.71	15.87
	Oct-13	25.58	10.19	15.39
MW-5	Apr-94	103.62	8.27	95.35
(7 - 22 feet bgs)	Jul-94		8.50	95.12
	Oct-94		8.92	94.70
	Jan-95		7.61	96.01
	Apr-95		8.48	95.14
	Jan-97		6.79	96.83
	Nov-98		8.12	95.50
	Jan-01		7.67	95.95
	Jun-02		7.61	96.01
	Nov-02		8.01	95.61
	Feb-03		7.22	96.40
	Jun-03		7.43	96.19
	Apr-08	24.31	7.36	16.95
	Jun-11	24.31	7.43	16.88
	Dec-11	24.32	-	-
	Jan-12	24.32	-	-
	May-12	24.32	7.46	16.86
	Jul-12	24.32	7.76	16.56
	Nov-12	24.32	8.47	15.85
	Feb-13	24.32	7.59	16.73
	May-13	24.32	7.82	16.50
	Aug-13	24.32	8.34	15.98
	Oct-13	24.32	8.76	15.56

Table 11

Groundwater Elevation Data

AEI Project No. 298931, 1620-1640 Park Street, Alameda, CA

Well ID (Screen Interval)	Date Collected	Well Elevation *(ft amsl*)*	Depth to Water *(ft)*	Groundwater Elevation *(ft amsl*)*
DPE-1 (7 - 15 feet bgs)	Dec-11	25.88	8.81	17.07
	Jan-12	25.88	8.78	17.10
	May-12	25.88	7.72	18.16
	Jul-12	25.88	8.13	17.75
	Nov-12	25.88	8.84	17.04
	Feb-13	25.88	7.36	18.52
	May-13	25.88	7.88	18.00
	Aug-13	25.88	8.83	17.05
	Oct-13	25.88	9.70	16.18
DPE-2 (7 - 15 feet bgs)	Dec-11	26.22	9.29	16.93
	Jan-12	26.22	7.97	18.25
	May-12	26.22	7.89	18.33
	Jul-12	26.22	8.26	17.96
	Nov-12	26.22	9.02	17.20
	Feb-13	26.22	7.50	18.72
	May-13	26.22	7.97	18.25
	Aug-13	26.22	8.99	17.23
DPE-3 (7 - 14 feet bgs)	Dec-11	25.27	7.92	17.35
	Jan-12	25.27	8.98	16.29
	May-12	25.27	6.75	18.52
	Jul-12	25.27	7.20	18.07
	Nov-12	Abandoned	-	-
DPE-4 (8-17 feet bgs)	Jan-12	26.06	9.11	16.95
	May-12	26.06	8.59	17.47
	Jul-12	26.06	8.84	17.22
	Nov-12	26.06	9.23	16.83
	Feb-13	26.06	8.37	17.69
	May-13	26.06	8.90	17.16
	Aug-13	26.06	9.49	16.57
	Oct-13	26.06	10.01	16.05
DPE-5 (8-18 feet bgs)	Jan-12	26.25	-	-
	Nov-12	26.25	9.94	16.31
	Feb-13	26.25	7.72	18.53
	May-13	26.25	8.19	18.06
	Aug-13	26.25	8.99	17.26
DPE-6 (8-18 feet bgs)	Jan-12	26.13	8.58	17.55
	May-12	26.13	7.43	18.70
	Jul-12	26.13	7.83	18.30
	Nov-12	26.13	8.71	17.42
	Feb-13	26.13	7.01	19.12
	May-13	26.13	7.49	18.64
	Aug-13	26.13	8.61	17.52
	Oct-13	26.13	9.66	16.47
DPE-8 (8-18 feet bgs)	Jan-12	25.36	-	-
	Nov-12	25.36	8.31	17.05
	Feb-13	25.36	6.69	18.67
	May-13	25.36	7.25	18.11
	Oct-13	25.36	9.18	16.18
DPE-9 (8-18 feet bgs)	Jan-12	25.09	8.12	16.97
	Jul-12	25.09	7.81	17.28
	Nov-12	25.09	8.38	16.71
	Feb-13	25.09	7.27	17.82
	May-13	25.09	7.75	17.34
	Aug-13	25.09	8.54	16.55
	Oct-13	25.09	9.19	15.90
DPE-10 (8-17 feet bgs)	Jan-12	25.14	-	-
	May-12	25.14	7.73	17.41
	Jul-12	25.14	8.09	17.05
	Nov-12	25.14	8.51	16.63
	Feb-13	25.14	7.64	17.50
	May-13	25.14	8.21	16.93
	Aug-13	25.14	8.79	16.35
	Oct-13	25.14	9.34	15.80
DPE-11 (8-18 feet bgs)	Jan-12	25.57	-	-
	May-12	25.57	7.90	17.67
	Jul-12	25.57	-	-
	Nov-12	25.57	8.74	16.83
	Feb-13	25.57	7.68	17.89
	May-13	25.57	7.24	18.33
	Oct-13	25.57	9.58	15.99
Average depth to water GW elev	Dec-11		8.45	17.11
	Jan-12		8.48	17.15
	May-12		7.70	17.82
	Jul-12		8.03	17.45
	Nov-12		8.81	16.73
	Feb-13		7.51	18.03
	May-13		7.92	17.62

ft amsl *= feet above mean sea level. Note: Data before 2008 are based on a fictitous 100 ft datum.
All water level depths are measured from the top of casing
"-" = not measured
bgs = below ground surface

APPENDIX A

Soil Boring Logs

GROUNDWATER TECHNOLOGY, INC.
OIL RECOVERY SYSTEMS

Monitoring Well 1

Drilling Log

Project Good Chevrolet Owner Good Chevrolet

Location 1630 Park St. Alameda Project Number 20-8208

Date Drilled 1/15/87 Total Depth of Hole 20 ft. Diameter 7.5 inches

Surface Elevation ____ Water Level, Initial 14 ft. 24-hrs. ____

Screen: Dia. .020 Length 15 feet Slot Size .020

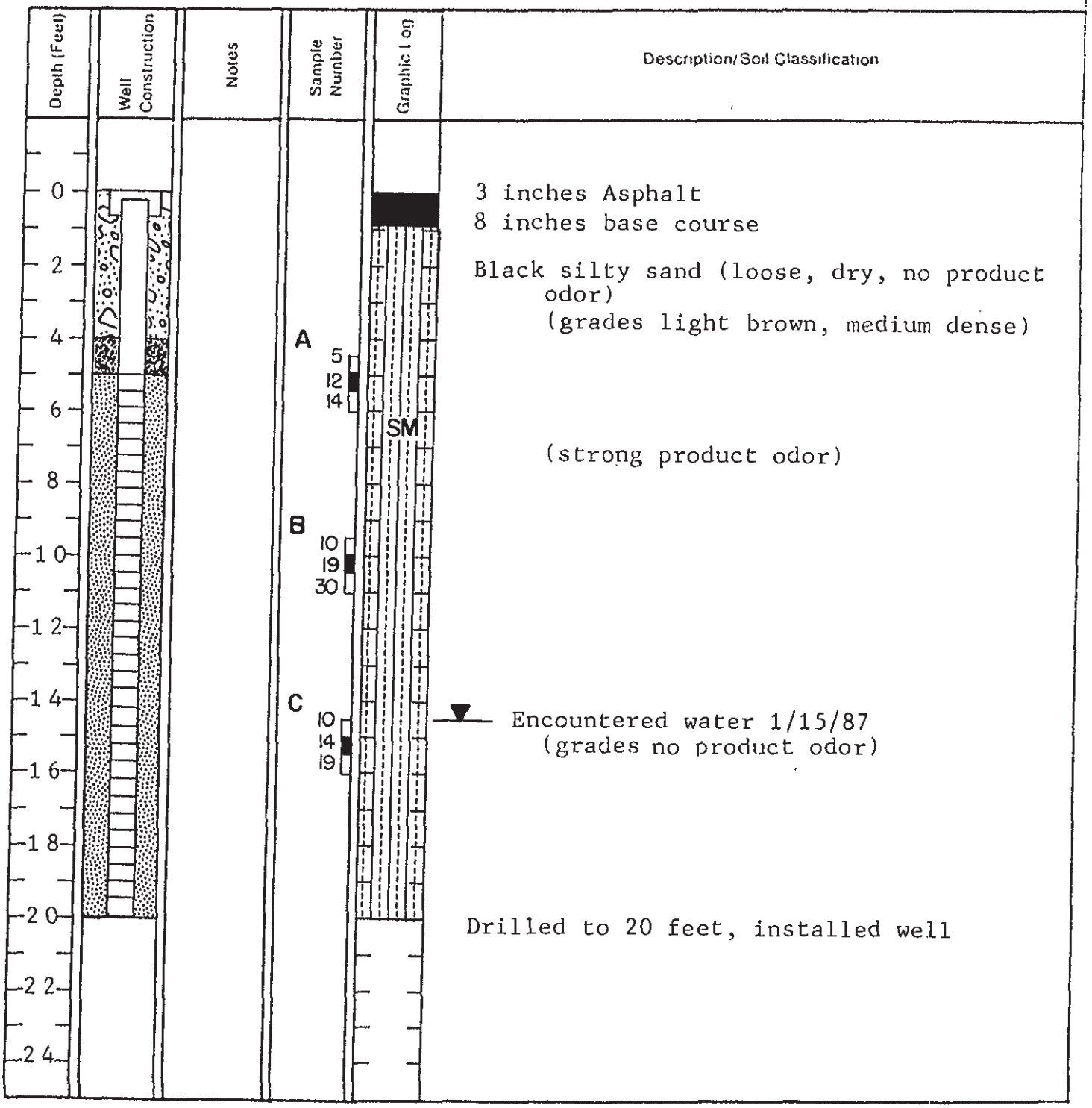
Casing: Dia. 2 inch Length 5 feet Type PVC

Drilling Company Kvilhaug Drilling Method Hollowstem Auger

Driller C. Pruner Log by N. Farrar

Sketch Map

Notes



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GROUNDWATER TECHNOLOGY, INC.
OIL RECOVERY SYSTEMS

Monitoring Well 2

Drilling Log

Project Good Chevrolet Owner Good Chevrolet
Location 1630 Park St. Alameda Project Number 20-8208
Date Drilled 1/15/87 Total Depth of Hole 20 ft. Diameter 7.5 inches
Surface Elevation ____ Water Level, Initial 14 ft. 24-hrs. ____
Screen: Dia. .020 Length 15 feet Slot Size .020
Casing: Dia. 2 inch Length 5 feet Type PVC
Drilling Company Kvilhaug Drilling Method Hollowstem Auger
Driller C. Pruner Log by N. Farrar

Sketch Map

Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification
0					3 inches Asphalt 8 inches base course
2					Brown silty sand (medium dense, dry, no no product odor) (grades tan)
4			A 6 6 12	SM	
6					(grades slight product odor)
8					
10			B 10 21 27		(grades dense) (strong product odor)
12					
14			C 15 20 28		(very slight product odor) ▼ Encountered water 1/15/87
16					(grades no product odor)
18					
20					Drilled to 20 feet, installed well
22					
24					

02100144

GROUNDWATER TECHNOLOGY, INC.
OIL RECOVERY SYSTEMS

Monitoring Well 3

Drilling Log

Project Good Chevrolet Owner Good Chevrolet

Location 1630 Park St. Alameda Project Number 20-8208

Date Drilled 1/15/87 Total Depth of Hole 20 ft. Diameter 7.5 inches

Surface Elevation ____ Water Level, Initial 14 ft. 24-hrs. ____

Screen: Dia. .020 Length 15 feet Slot Size .020

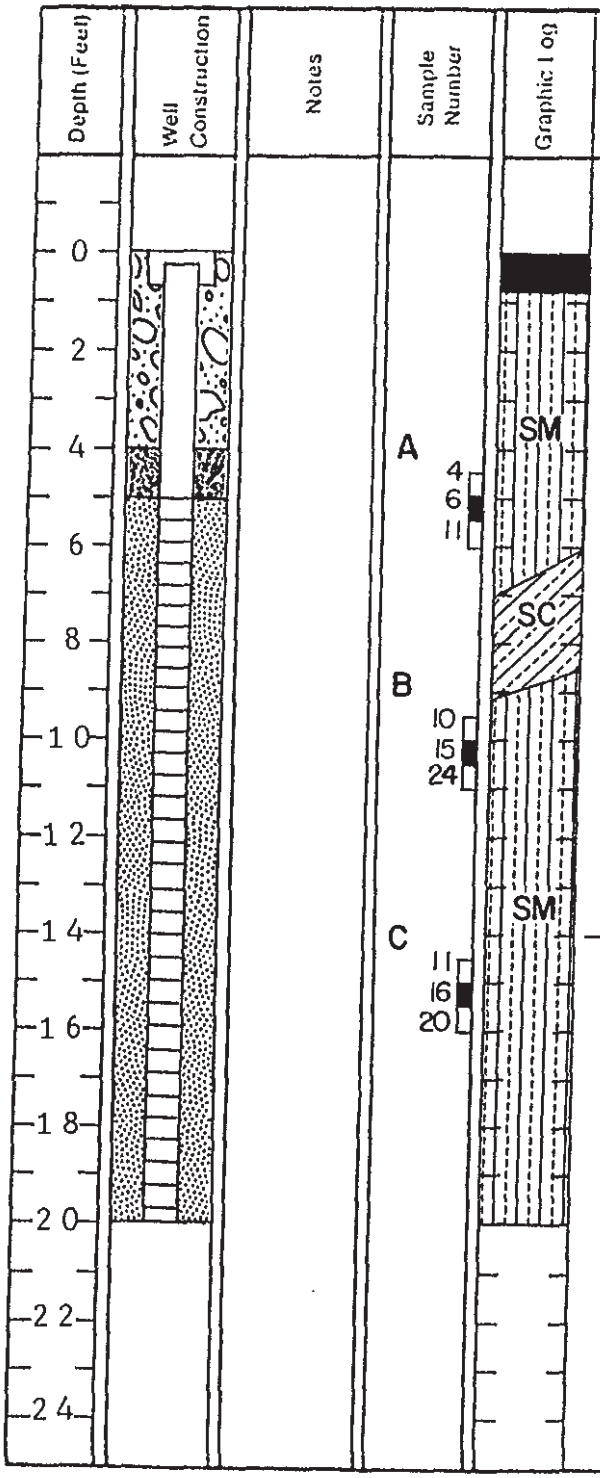
Casing: Dia. 2 inch Length 5 feet Type PVC

Drilling Company Kvilhaug Drilling Method Hollowstem Auger

Driller C. Pruner Log by N. Farrar

Sketch Map

Notes



Description/Soil Classification

3 inches Asphalt
8 inches base course
Tan silty sand (loose, dry, no product odor)

(grades medium dense)

Tan clayey sand (medium dense, dry, no product odor)
(grades less clay, strong product odor)

Tan silty sand (dense, dry, slight product odor)

▼ Encountered water 1/15/87

(grades no product odor)

Drilled to 20 feet, installed well

02100144

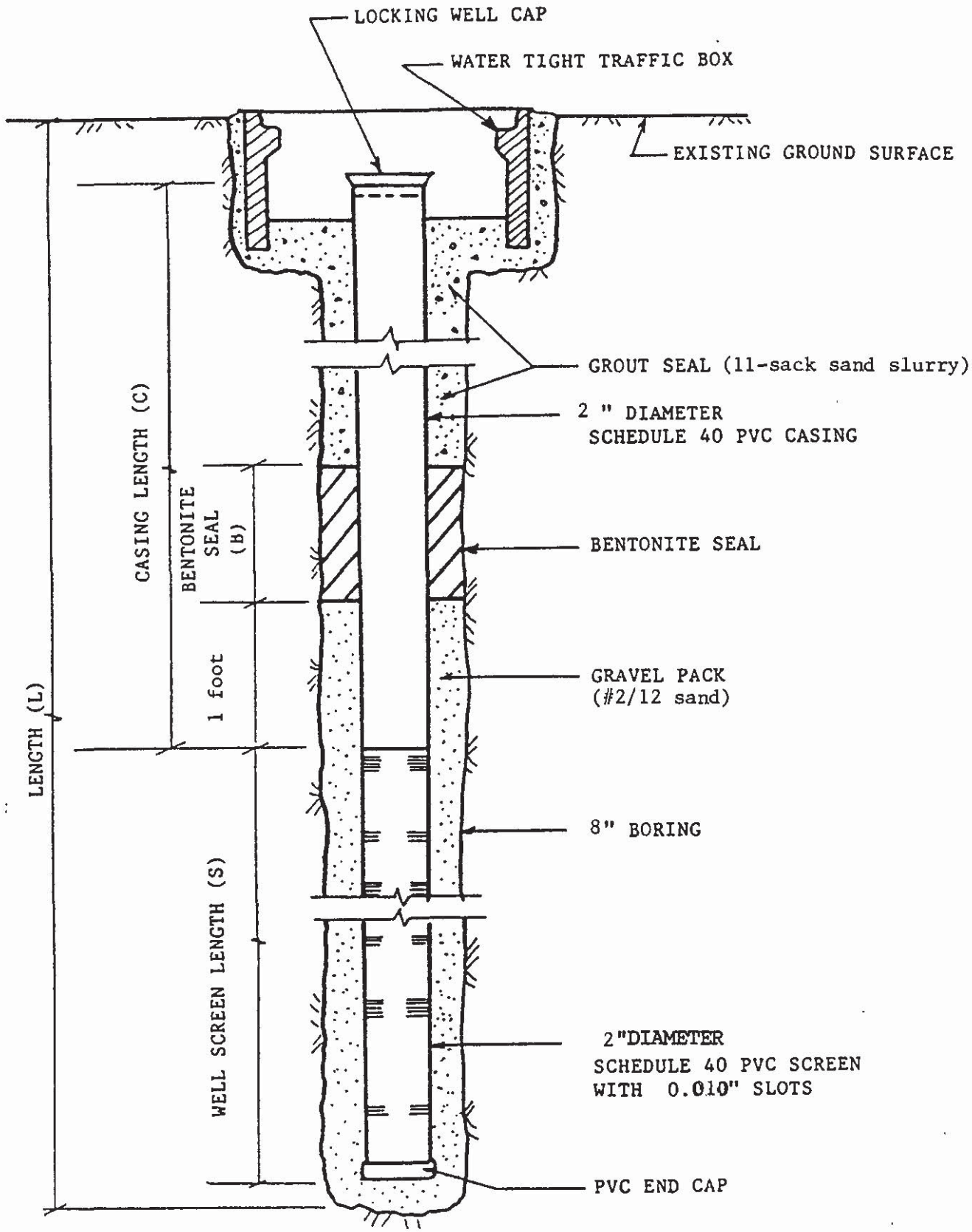
SUBSURFACE DATA LOG

LOG No. MW-4 DATE: 4/20/94
LOCATION: Good Chevrolet - Park Street
EQUIPMENT: Exploration Geoservices
PROJECT No.

DRY DENSITY (lbs cu. ft.)	MOISTURE (% of dry wt.)	"N" VALUE (blows/ft.)	OVM READING (ppm)	SAMPLE TYPE	DEPTH (ft.)	LOG	U.S.C.	
								A/C Pavement and Aggregate Base
		9	0.5	S1	5		SM	SAND, fine to medium grained with some gravel, gray, moist, medium dense
		37	3.8	S2	10		SM	SAND, fine to medium grained, gray, dense, wet
		39	0.8	S3	15		SM	SAND, fine to medium grained, red, wet, dense
					20			
					25			Boring terminated at 23.0 feet. Monitoring well constructed (2-inch). Ground water encountered at 11 feet.

GeoPlexus, Inc.

FIGURE 4



L=23 feet
S=15 feet
C= 8 feet
B= 1 foot

GOOD CHEVROLET		
DATE 4/20/94	SCALE n/a	DRAWN BY dcg
MONITORING WELL MW-4		
		Figure 6

GeoPlexus, Inc.

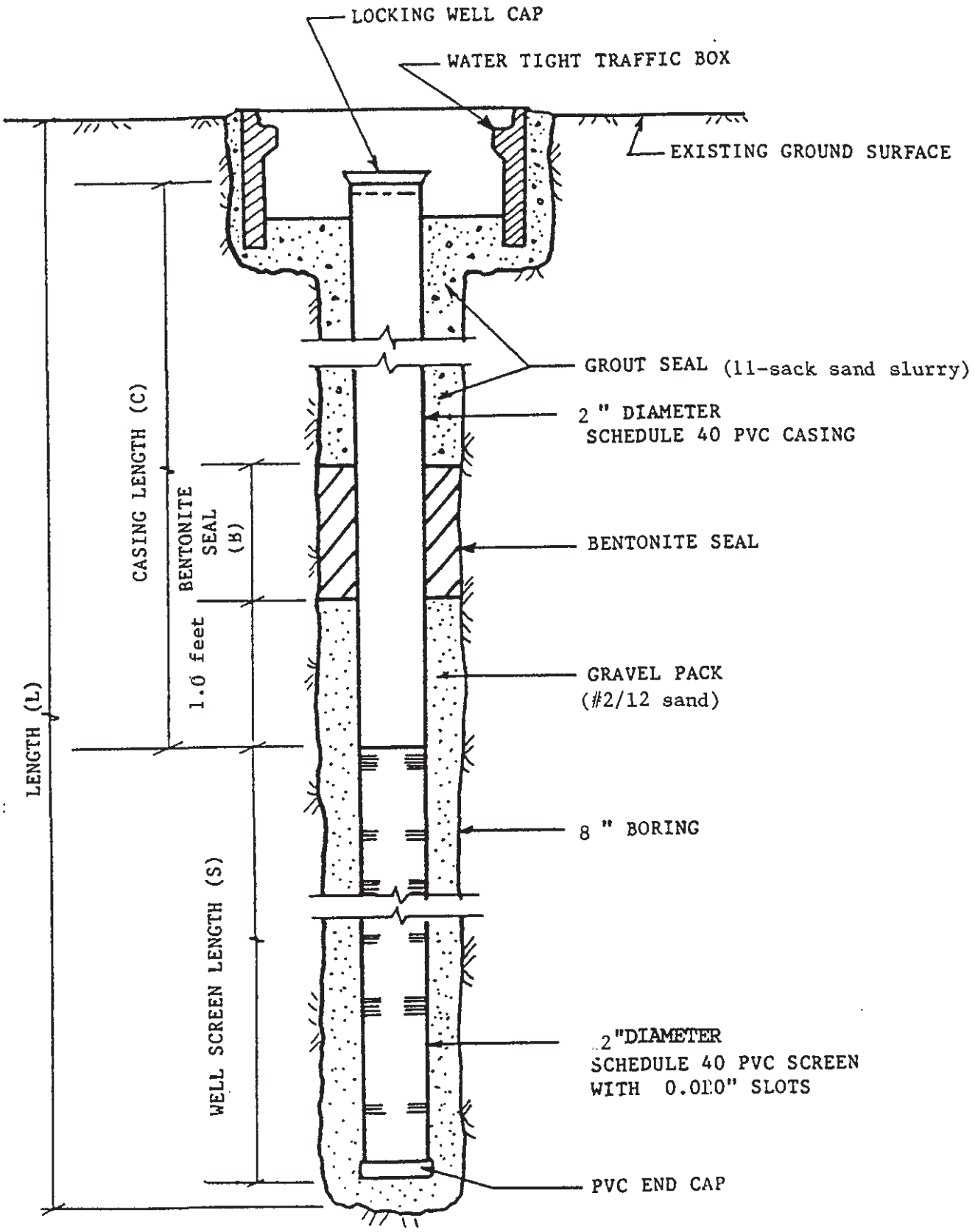
SUBSURFACE DATA LOG

LOG No. MW-5 DATE: 4/20/94
LOCATION: Good Chevrolet - Park Street
EQUIPMENT: Exploration Geoservices
PROJECT No.

DRY DENSITY (lbs cu. ft.)	MOISTURE (% of dry wt.)	"N" VALUE (blows/ft.)	OVM READING (ppm)	SAMPLE TYPE	DEPTH (ft)	LOG	U.S.C.	
								A/C Pavement and Aggregate Base
							SM	SILTY SAND, redish-brown, moist, medium dense
		12	0.8	S1	5			
								- grey staining of sand noted
		29	25.8	S2	10			
								- redish-brown
		39	15.5	S3	15			
					20			
					25			Boring terminated at 22 feet Monitoring well constructed (2-inch). Ground water encountered at 12 feet

GeoPlexus, Inc.

FIGURE 5



L= 22 feet
S= 15 feet
C= 7 feet
B= 1 foot

GOOD CHEVROLET		
DATE 4/20/94	SCALE n/a	DRAWN BY dcg
MONITORING WELL MW-5		
	Figure 7	

GeoPlexus, Inc.

Project: Foley Street Investments, LLC
Project Location: 1600 - 1630 Park Street, Alameda, CA
Project Number: 298931

Log of Boring AEI-3

Sheet 1 of 1

Date(s) Drilled **July 25, 2011**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push - Geoprobe**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **15 feet bgs**
Drill Rig Type **Truck-mounted Geoprobe 5410**	Drilling Contractor **Environmental Control Associates**	Approximate Surface Elevation
Groundwater Level and Date Measured **12 feet ATD, 7.75 feet after 15 mins**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Neat grout cement**	Location **Former Hydraulic Lift**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Other		Concrete		
				SP		Sand, dark brown, loose, poorly graded, dry to slightly moist, no apparent odors or staining		
						color change to yellowish brown-brown		
			AEI-3-4'					
	5							
			AEI-3-7'			strong petroleum hydrocarbon odors and staining noted, sand increasing in density and moisture		
			AEI-3-8'			(after 15 mins)	1048	
			AEI-3-10'				941	
	10							
			AEI-3-12'				214	
						(ATD)		
				SP		Sand, dark olive grey, strong petroleum hydrocarbon odors and staining noted, wet		
						petroleum hydrocarbon odors and staining end, color back to yellowish brown		
			AEI-3-15'				26.2	
	15					Bottom of Boring at 15 feet bgs		

Figure

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Project: Foley Street Investments, LLC
Project Location: 1600 - 1630 Park Street, Alameda, CA
Project Number: 298931

Log of Boring AEI-4

Sheet 1 of 1

Date(s) Drilled **July 25, 2011**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push - Geoprobe**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **15 feet bgs**
Drill Rig Type **Truck-mounted Geoprobe 5410**	Drilling Contractor **Environmental Control Associates**	Approximate Surface Elevation
Groundwater Level and Date Measured **10 feet ATD, 7.97 feet after 20 mins**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Neat grout cement**	Location **Former Hydraulic Lift**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Other		Concrete		
				SP		Sand, minor silt, dark brown, loose, poorly graded, dry to slightly moist, no apparent odors or staining		
						color change to yellowish brown		
			AEI-4-4'				1.7	
	5							
			AEI-4-7'			strong petroleum hydrocarbon odors and staining noted, sand increasing in density and moisture	1281	
						(after 20 mins) ▼		
			AEI-4-8.5'					
			AEI-4-10'				1329	
	10					(ATD) ▽		
				SP		Sand, dark olive grey, strong petroleum hydrocarbon odors and staining noted, wet		
			AEI-4-13'				1043	
						petroleum hydrocarbon odors and staining end, color back to yellowish brown		
			AEI-4-15'				239	
	15					Bottom of Boring at 15 feet bgs		

Figure

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Project: Foley Street Investments, LLC
Project Location: 1600 - 1630 Park Street, Alameda, CA
Project Number: 298931

Log of Boring AEI-5

Sheet 1 of 1

Date(s) Drilled **July 25, 2011**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push - Geoprobe**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **13 feet bgs**
Drill Rig Type **Truck-mounted Geoprobe 5410**	Drilling Contractor **Environmental Control Associates**	Approximate Surface Elevation
Groundwater Level and Date Measured **10.5 feet ATD, 7.68 feet after 20 mins**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Neat grout cement**	Location **Existing Hydraulic Lift**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Other		Concrete		
				SP		Sand, very minor silt, dark brown, loose, poorly graded, dry to slightly moist, no apparent odors or staining		
						color change to yellowish brown-brown		
	5		AEI-5-6.5'			sand increasing in density and moisture	4.1	
			AEI-5-8'			(after 20 mins)	2.4	
	10					(ATD)		
				SP		Sand, brown, very moist, no apparent odors or staining		
			AEI-5-12'				6.7	
						Bottom of Boring at 13 feet bgs		
	15		AEI-5-15'				1.7	

Figure

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Project: Foley Street Investments, LLC
Project Location: 1600 - 1630 Park Street, Alameda, CA
Project Number: 298931

Log of Boring AEI-6

Sheet 1 of 1

Date(s) Drilled **July 25, 2011**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push - Geoprobe**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **14 feet bgs**
Drill Rig Type **Truck-mounted Geoprobe 5410**	Drilling Contractor **Environmental Control Associates**	Approximate Surface Elevation
Groundwater Level and Date Measured **11.5 feet ATD, 7.8 feet after 20 mins**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Neat grout cement**	Location **Former Hydraulic Lift**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Other		Concrete		
				SP		Sand, dark brown, loose, poorly graded, dry to slightly moist, no apparent odors or staining		
						color change to yellowish brown		
			AEI-6-4'				3.1	
	5							
			AEI-6-6'				11.6	
						sand increasing in density and moisture		
			AEI-6-7'				105	
			AEI-6-8'			(after 20 mins) ▼		
						strong petroleum hydrocarbon odors and staining noted		
			AEI-6-10'				82	
	10					(ATD) ▽		
			AEI-6-12'	SP		Sand, dark olive grey, strong petroleum hydrocarbon odors and staining noted, wet	36.4	
						petroleum hydrocarbon odors and staining end, color back to yellowish brown		
			AEI-6-14'				32.3	
						Bottom of Boring at 14 feet bgs		
	15							

Figure

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Project: Foley Street Investments, LLC
Project Location: 1600 - 1630 Park Street, Alameda, CA
Project Number: 298931

Log of Boring AEI-7

Sheet 1 of 1

Date(s) Drilled **July 25, 2011**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push - Geoprobe**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **14 feet bgs**
Drill Rig Type **Truck-mounted Geoprobe 5410**	Drilling Contractor **Environmental Control Associates**	Approximate Surface Elevation
Groundwater Level and Date Measured **11 feet ATD, 7.95 feet after 20 mins**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Neat grout cement**	Location **Former Hydraulic Lift**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Other		Concrete		
				SP		Sand, dark brown, loose, poorly graded, dry to slightly moist, no apparent odors or staining		
						color change to yellowish brown		
			AEI-7-4'				4.1	
	5							
						sand increasing in density and moisture		
			AEI-7-7'				102	
						(after 20 mins) strong petroleum hydrocarbon odors and staining noted		
	10							
			AEI-7-11'				75	
				SP		(ATD) Sand, dark olive grey, strong petroleum hydrocarbon odors and staining noted, oily water noted in pores, wet		
						petroleum hydrocarbon odors and staining end, color back to yellowish brown		
			AEI-7-13'				57	
						Bottom of Boring at 14 feet bgs		
	15							

Figure

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Project: Foley Street Investments, LLC
Project Location: 1600 - 1630 Park Street, Alameda, CA
Project Number: 298931

Log of Boring AEI-8

Sheet 1 of 1

Date(s) Drilled **July 25, 2011**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push - Geoprobe**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **14 feet bgs**
Drill Rig Type **Truck-mounted Geoprobe 5410**	Drilling Contractor **Environmental Control Associates**	Approximate Surface Elevation
Groundwater Level and Date Measured **11 feet ATD, 7.54 feet after 20 mins**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Neat grout cement**	Location **Former Hydraulic Lift**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Other		Concrete		
				SP		Sand, dark brown, loose, poorly graded, dry to slightly moist, no apparent odors or staining		
						color change to yellowish brown		
			AEI-8-4'				12.8	
	5							
						sand increasing in density and moisture		
			AEI-8-7'				140	
						(after 20 mins) ▼		
						strong petroleum hydrocarbon odors and staining noted		
			AEI-8-9'				92	
	10							
			AEI-8-11'				81	
						(ATD) ▽		
				SP		Sand, dark olive grey, strong petroleum hydrocarbon odors and staining noted, oily water noted in pores, wet		
						petroleum hydrocarbon odors and staining end, color back to yellowish brown		
			AEI-8-14'				24.1	
						Bottom of Boring at 14 feet bgs		
	15							

Figure

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Project: Foley Street Investments, LLC
Project Location: 1600 - 1630 Park Street, Alameda, CA
Project Number: 298931

Log of Boring AEI-11

Sheet 1 of 1

Date(s) Drilled **July 25, 2011**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push - Geoprobe**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **5 feet bgs**
Drill Rig Type **Truck-mounted Geoprobe 5410**	Drilling Contractor **Environmental Control Associates**	Approximate Surface Elevation
Groundwater Level and Date Measured **Not Encountered ATD**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Neat grout cement**	Location **Drain**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Other		Concrete		
				SP		Sand, very minor silt, dark brown, loose, poorly graded, dry to slightly moist, no apparent odors or staining		
						color change to yellowish brown		
			AEI-11-3'				1.7	
			AEI-11-5'				<1	
	5					Bottom of Boring at 5 feet bgs		
	10							
	15							

Figure

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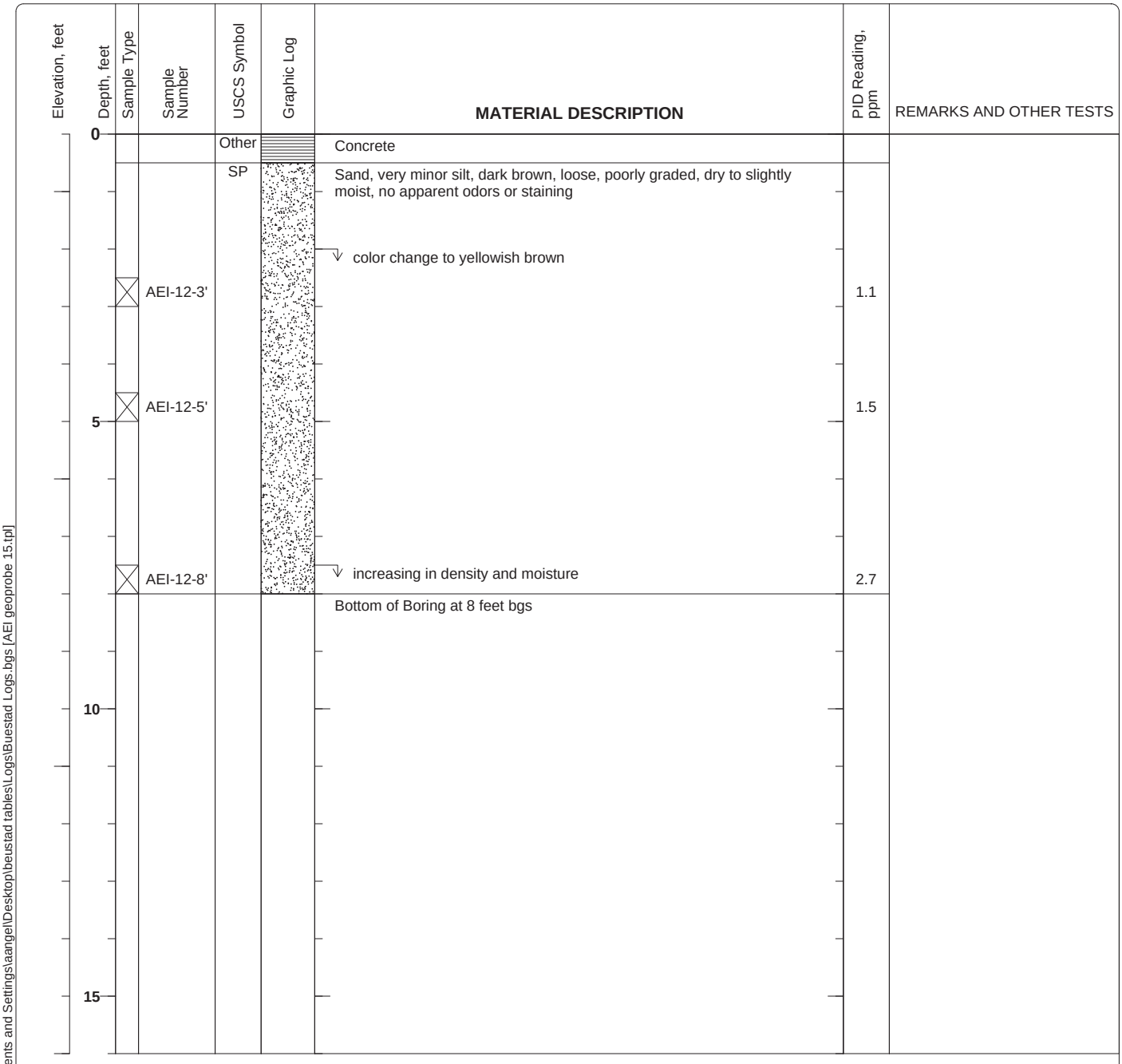
Project: Foley Street Investments, LLC
Project Location: 1600 - 1630 Park Street, Alameda, CA
Project Number: 298931

Log of Boring AEI-12

Sheet 1 of 1

Date(s) Drilled **July 25, 2011**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push - Geoprobe**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **8 feet bgs**
Drill Rig Type **Truck-mounted Geoprobe 5410**	Drilling Contractor **Environmental Control Associates**	Approximate Surface Elevation
Groundwater Level and Date Measured **Not Encountered ATD**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Neat grout cement**	Location **Drain**	



Figure

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Project: Foley Street Investments, LLC
Project Location: 1600 - 1630 Park Street, Alameda, CA
Project Number: 298931

Log of Boring AEI-13

Sheet 1 of 1

Date(s) Drilled **July 25, 2011**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push - Geoprobe**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **8 feet bgs**
Drill Rig Type **Truck-mounted Geoprobe 5410**	Drilling Contractor **Environmental Control Associates**	Approximate Surface Elevation
Groundwater Level and Date Measured **Not Encountered ATD**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Neat grout cement**	Location **Drain**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Other		Concrete		
				SP		Sand, very minor silt, dark brown, loose, poorly graded, dry to slightly moist, no apparent odors or staining		
						color change to yellowish brown		
			AEI-13-3'				1.1	
			AEI-13-5'				1.5	
	5					increasing in density and moisture		
			AEI-13-8'				2.7	
						Bottom of Boring at 8 feet bgs		
	10							
	15							

Figure

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Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring AEI-20

Sheet 1 of 1

Date(s) Drilled **January 17, 2012**	Logged By **Harmony Tomsun**	Checked By **Bryan Campbell**
Drilling Method **Direct Push**	Drill Bit Size/Type **2 inch**	Total Depth of Borehole **15 feet bgs**
Drill Rig Type **Limited Access**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **11.3 feet ATD**	Sampling Method(s) **Direct-Push Sampler**	Well Permit. **W2012-0024**
Borehole Backfill **Neat Cement**	Location **1630 Park Street, Alameda, California**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Asphalt		Conrete and Fill		
				SM		Silty sand, mottled reddish brown, coarse grained, brittle.		
		X	AEI-20-3.5	SP		Poorly graded, fine grained sand, light brown, moderately loose.	<1	
	5			SW		Medium to coarse grained sand, yellowish red, moderately loose.		
		X	AEI-20-7.5	SM		Silty sand, (20% silt), mottled greenish grey and light grey, moderately soft and loose, hydrocarbon odors.	78.1	
	10	X	AEI-20-11			(ATD) ▽	104.3	
				SP		Fine grained sand, yellowish brown, moist to wet, compact.		
		X	AEI-20-15				26.7	
	15					Bottom of Boring at 15 feet bgs. Groundwater sample collected.		
	20							

Figure

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Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring AEI-21

Sheet 1 of 1

Date(s) Drilled **January 17, 2012**	Logged By **Harmony Tomsun**	Checked By **Bryan Campbell**
Drilling Method **Direct Push**	Drill Bit Size/Type **2 inch**	Total Depth of Borehole **14 feet bgs**
Drill Rig Type **Limited Access**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **10.7 feet ATD**	Sampling Method(s) **Direct-Push Sampler**	Well Permit. **W2012-0024**
Borehole Backfill **Neat Cement**	Location **1630 Park Street, Alameda, California**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Asphalt		Conrete and Fill		
				SM		Silty sand, dark brown and mottled red, hard.		
				SM		Becomes yellowish brown, fine grained, cohesive, friable.		
		X	AEI-21-3				<1	
				SM		Becomes fine to medium grained sand.		
	5							
		X	AEI-21-7				<1	
		X	AEI-21-9	SM		Silty sand (20% silt), greyish green, non-plastic.	32.9	
	10					(ATD) ▽		
		X	AEI-21-11				61.5	
				SP		Sand, yellowish brown, wet, hard, friable, cohesive.		
		X	AEI-21-14				17.9	
						Bottom of Boring at 14 feet bgs. Groundwater Sample Collected.		
	15							
	20							

Figure

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Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring AEI-22

Sheet 1 of 1

Date(s) Drilled **January 17, 2012**	Logged By **Harmony Tomsun**	Checked By **Bryan Campbell**
Drilling Method **Direct Push**	Drill Bit Size/Type **2 inch**	Total Depth of Borehole **15 feet bgs**
Drill Rig Type **Limited Access**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **10.9 feet ATD**	Sampling Method(s) **Direct-Push Sampler**	Well Permit. **W2012-0024**
Borehole Backfill **Neat Cement**	Location **1630 Park Street, Alameda, California**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Asphalt		Conrete and Fill		
				SM		Silty sand, dark brown and mottled reddish brown, hard, slightly friable.		
				SM		Silty sand, dark yellowish brown, fine to medium grained, moist, loose, friable.		
		X	AEI-22-4				<1	
	5							
		X	AEI-22-7				<1	
				SM		Silty sand, yellowish red, fine grained sand, moderately loose.		
				SM		Silty sand (20% silt), greenish grey, fine grained sand, non-plastic, wet.		
		X	AEI-22-9				9.4	
	10					(ATD) ▽		
		X	AEI-22-11				13.8	
				SM		Silty sand, light yellowish brown, non-plastic.		
		X	AEI-22-14				5.4	
	15					Bottom of Boring at 15 feet bgs. Groundwater Sample Collected.		
	20							

Figure

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Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring AEI-23

Sheet 1 of 1

Date(s) Drilled **January 17, 2012**	Logged By **Harmony Tomsun**	Checked By **Bryan Campbell**
Drilling Method **Direct Push**	Drill Bit Size/Type **2 inch**	Total Depth of Borehole **14.5 feet bgs**
Drill Rig Type **Limited Access**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **10.09 feet ATD**	Sampling Method(s) **Direct-Push Sampler**	Well Permit. **W2012-0024**
Borehole Backfill **Neat Cement**	Location **1630 Park Street, Alameda, California**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Asphalt		Conrete and Fill		
				SM		Sandy silt, black and mottled orange.		
		X	AEI-23-3				<1	
				SM		Light yellowish brown sand, increasing compactness with depth.		
	5	X	AEI-23-6				1.7	
		X	AEI-23-9.5	SW		Sand, greenish grey, fine to medium grained, moist to wet.	39.8	
	10					(ATD) ▽		
		X	AEI-23-12.5				75.1	
				SP		Fine grained sand, yellowish brown, wet.		
		X	AEI-23-14.5				11.2	
	15					Bottom of Boring at 14.5 feet bgs. Groundwater Sample Collected.		
	20							

Figure

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Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring AEI-24

Sheet 1 of 1

Date(s) Drilled **January 17, 2012**	Logged By **Harmony Tomsun**	Checked By **Bryan Campbell**
Drilling Method **Direct Push**	Drill Bit Size/Type **2 inch**	Total Depth of Borehole **16 feet bgs**
Drill Rig Type **Limited Access**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **11.4 feet ATD**	Sampling Method(s) **Direct-Push Sampler**	Well Permit. **W2012-0024**
Borehole Backfill **Neat Cement**	Location **1630 Park Street, Alameda, California**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Asphalt		Conrete and Fill		
				SM		Sandy silt, black, friable, dry, trace subangular fine gravel. Non-plastic.		
		X	AEI-24-3.5				<1	
				SM		Silty sand, reddish yellowish brown, non-plastic, moist, slightly friable.		
	5	X	AEI-24-7				9.8	
				SM		Silty sand, light olive brown, moist, moderately loose.		
	10	X	AEI-24-10.5			(ATD) ▽	19.4	
				SW		Sand with trace gravel, reddish, yellowish brown, fine to medium grained, wet.		
		X	AEI-24-13				<1	
	15					Bottom of Boring at 16 feet bgs. Groundwater Sample Collected.		
	20							

Figure

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Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring AEI-25

Sheet 1 of 1

Date(s) Drilled **January 17, 2012**	Logged By **Harmony Tomsun**	Checked By **Bryan Campbell**
Drilling Method **Direct Push**	Drill Bit Size/Type **2 inch**	Total Depth of Borehole **15 feet bgs**
Drill Rig Type **Limited Access**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **10.8 feet ATD**	Sampling Method(s) **Direct-Push Sampler**	Well Permit. **W2012-0024**
Borehole Backfill **Neat Cement**	Location **1630 Park Street, Alameda, California**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Asphalt		Conrete and Fill		
				SM		Sandy silt, black mottled with red/orange, slightly friable, dry, cohesive.		
			AEI-25-4	SM		Silty sand, reddish yellowish brown, moist	<1	
	5		AEI-25-7.5				<1	
				SP		Fine to medium grained sand, yellowish brown, moist, wet at 12 feet.		
	10		AEI-25-10			(ATD) ▽	23.2	
				SM		Silty sand, reddish yellow, fine to medium grained, non-plastic, wet, expansive.		
			AEI-25-14				<1	
	15					Bottom of Boring at 15 feet bgs. Groundwater Sample Collected.		
	20							

Figure

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Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring AEI-26

Sheet 1 of 1

Date(s) Drilled **January 17, 2012**	Logged By **Harmony Tomsun**	Checked By **Bryan Campbell**
Drilling Method **Direct Push**	Drill Bit Size/Type **2 inch**	Total Depth of Borehole **14 feet bgs**
Drill Rig Type **Limited Access**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **11.8 feet ATD**	Sampling Method(s) **Direct-Push Sampler**	Well Permit. **W2012-0024**
Borehole Backfill **Neat Cement**	Location **1630 Park Street, Alameda, California**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Asphalt		Conrete and Fill		
				SM		Silty sand, dark brown mottled with red/orange, hard, friable.		
				SM		Silty sand, yellowish brown mottled reddish yellow, cohesive, friable, moist.		
			AEI-26-4				<1	
	5							
			AEI-26-7.5				<1	
	10							
			AEI-26-10.5	SP		Silty sand, dark brown, non-plastic, wet.	6.3	
						(ATD) ▽		
			AEI-26-14				<1	
						Bottom of Boring at 14 feet bgs. Groundwater Sample Collected.		
	15							
	20							

Figure

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Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring AEI-27

Sheet 1 of 1

Date(s) Drilled **January 17, 2012**	Logged By **Harmony Tomsun**	Checked By **Bryan Campbell**
Drilling Method **Direct Push**	Drill Bit Size/Type **2 inch**	Total Depth of Borehole **15 feet bgs**
Drill Rig Type **Limited Access**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **9.7 feet ATD**	Sampling Method(s) **Direct-Push Sampler**	Well Permit. **W2012-0024**
Borehole Backfill **Neat Cement**	Location **1630 Park Street, Alameda, California**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Asphalt		Asphalt and Fill		
				SM		Sandy silt, black and mottled red, hard, friable.		
		X	AEI-27-3	SM		Silty sand, reddish yellowish brown, moist.	<1	
	5	X	AEI-27-8				<1	
				SM		Sand with silt, yellowish brown. (ATD) ▽		
	10	X	AEI-27-10.5				<1	
				SM		Silty sand, dark yellowish brown, non-plastic, wet, fine grained sand.		
		X	AEI-27-14				<1	
	15					Bottom of Boring at 15 feet bgs. Groundwater sample collected.		
	20							

Figure

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Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring AEI-28

Sheet 1 of 1

Date(s) Drilled **January 17, 2012**	Logged By **Harmony Tomsun**	Checked By **Bryan Campbell**
Drilling Method **Direct Push**	Drill Bit Size/Type **2 inch**	Total Depth of Borehole **16 feet bgs**
Drill Rig Type **Limited Access**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **10.61 feet ATD**	Sampling Method(s) **Direct-Push Sampler**	Well Permit. **W2012-0024**
Borehole Backfill **Neat Cement**	Location **1630 Park Street, Alameda, California**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Asphalt		Concrete and Fill		
				SM		Sandy silt, black/dark brown and mottled red/orange.		
			AEI-28-3	SM		Silty sand, light yellowish brown, (20% silt), increasing grain size with depth.	<1	
	5		AEI-28-6				<1	
	10		AEI-28-10.5	SM		Silty sand, greenish grey, wet, moderately loose (20% silt). (ATD) ▽	32.8	
			AEI-28-13.5	SM		Silty sand, light yellowish brown, non-plastic, wet, loose.	1.4	
	15					Bottom of Boring at 16 feet bgs. Groundwater sample collected.		
	20							

Figure

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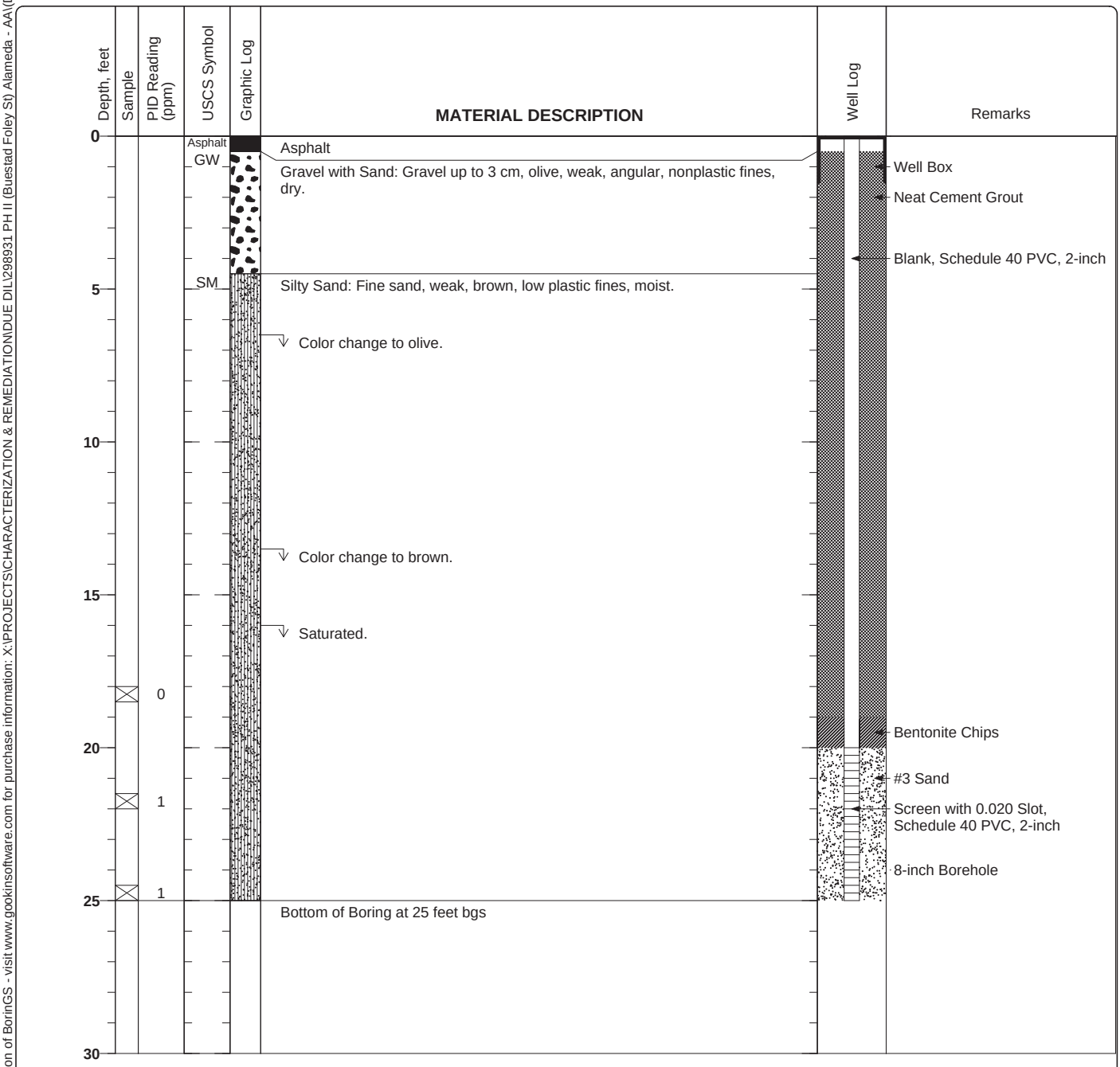
Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring AS-1

Sheet 1 of 1

Date(s) Drilled **11/14/11**	Logged By **Bryan Campbell**	Checked By **Bryan Campbell**
Drilling Method **Hollow Stem Auger**	Drill Bit Size/Type **10 inch**	Total Depth of Borehole **25 feet bgs**
Drill Rig Type **Geoprobe 6620D**	Drilling Contractor **RSI Drilling**	Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s) **Direct-Push Sampler**	Hammer Data
Borehole Backfill **Well Completion**	Location **1630 Park Street, Alameda, California**	



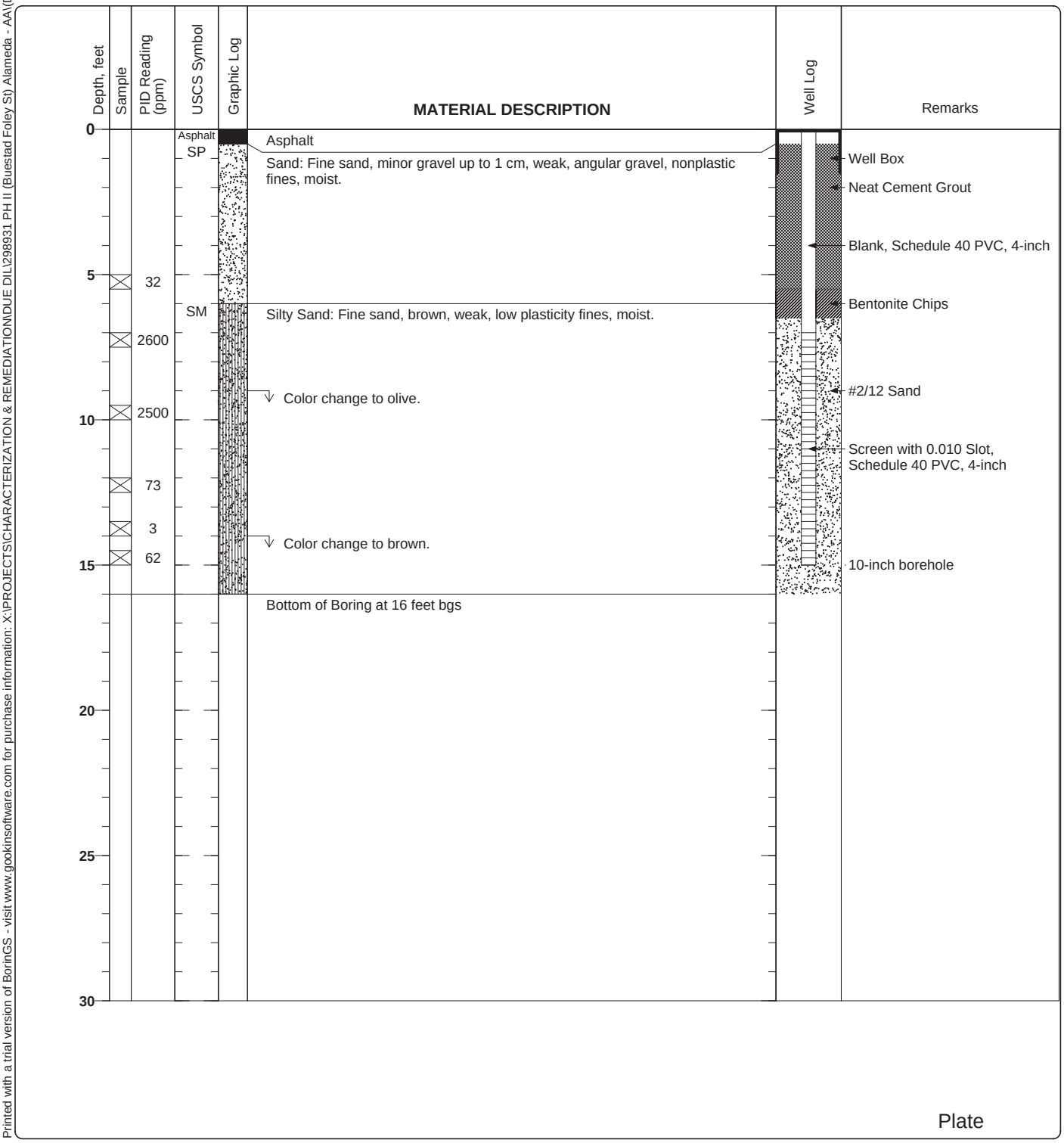
Plate

Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring DPE-1

Sheet 1 of 1

Date(s) Drilled **11/15/11**	Logged By **Bryan Campbell**	Checked By **Bryan Campbell**
Drilling Method **Hollow Stem Auger**	Drill Bit Size/Type **10 inch**	Total Depth of Borehole **16 feet bgs**
Drill Rig Type **Geoprobe 6620D**	Drilling Contractor **RSI Drilling**	Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s) **Direct-Push Sampler**	Hammer Data
Borehole Backfill **Well Completion**	Location **1630 Park Street, Alameda, California**	



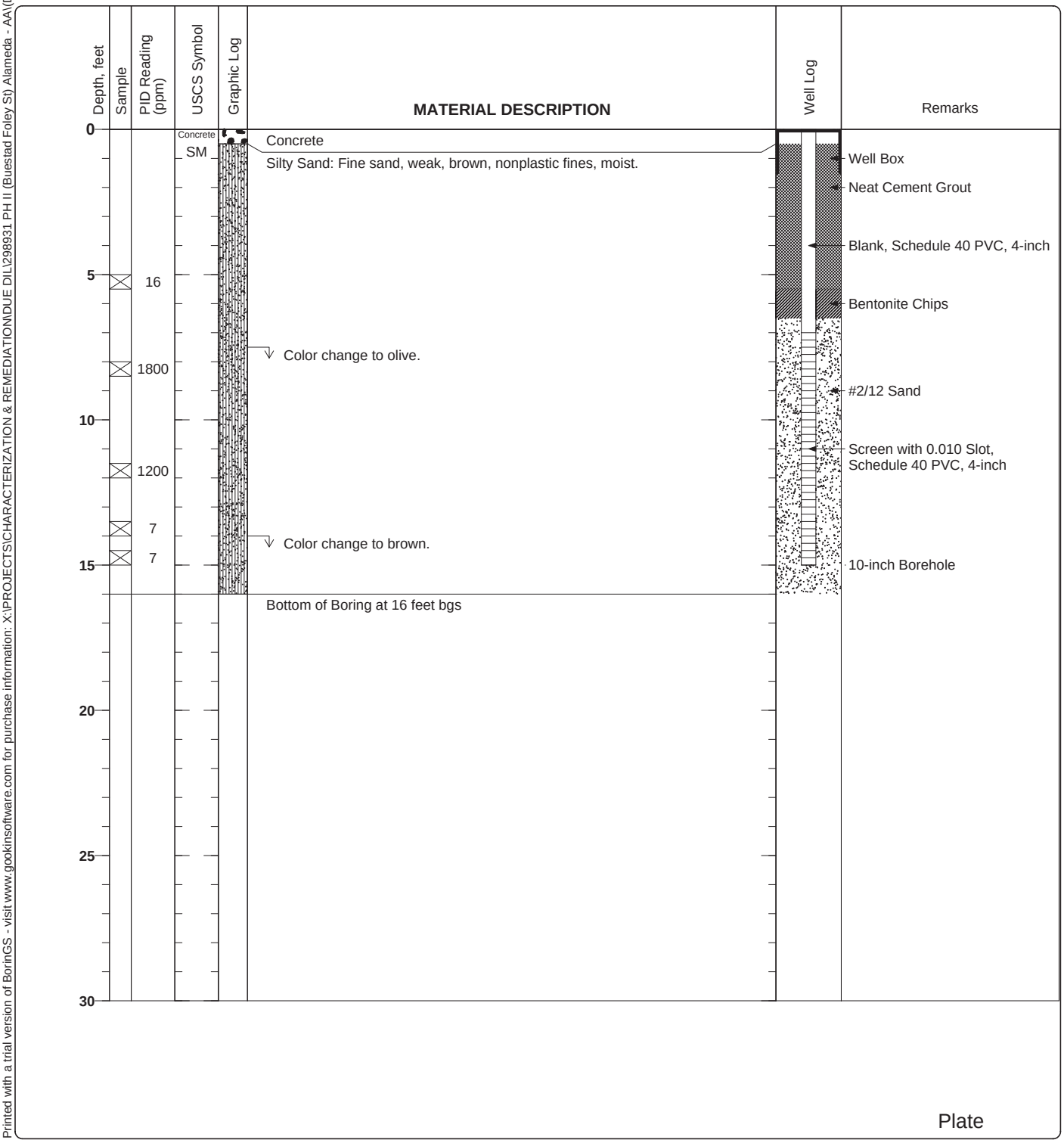
Plate

Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring DPE-2

Sheet 1 of 1

Date(s) Drilled **11/15/11**	Logged By **Bryan Campbell**	Checked By **Bryan Campbell**
Drilling Method **Hollow Stem Auger**	Drill Bit Size/Type **10 inch**	Total Depth of Borehole **16 feet bgs**
Drill Rig Type **Geoprobe 6620D**	Drilling Contractor **RSI Drilling**	Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s) **Direct-Push Sampler**	Hammer Data
Borehole Backfill **Well Completion**	Location **1630 Park Street, Alameda, California**	



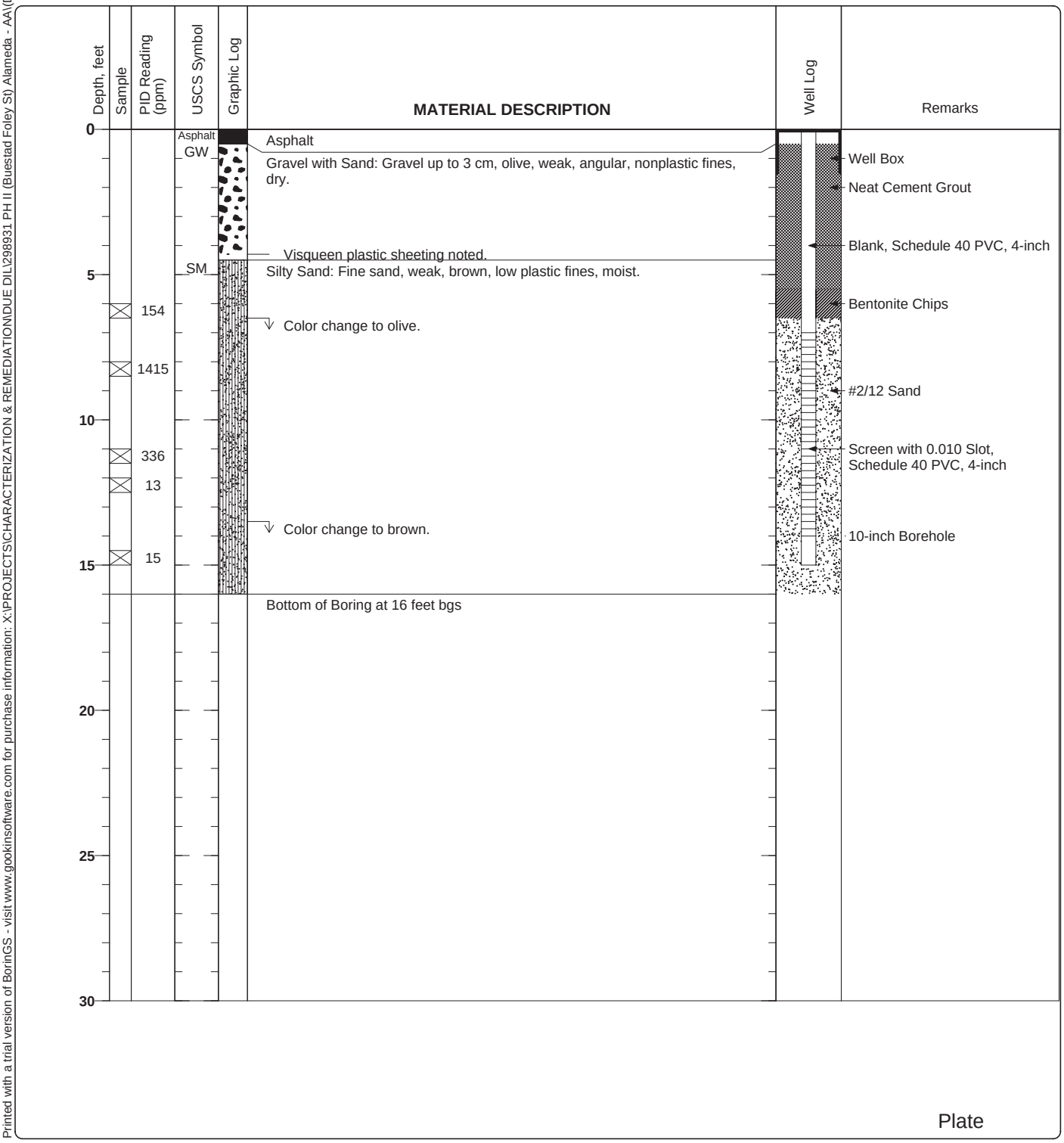
Plate

Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring DPE-3

Sheet 1 of 1

Date(s) Drilled **11/14/11**	Logged By **Bryan Campbell**	Checked By **Bryan Campbell**
Drilling Method **Hollow Stem Auger**	Drill Bit Size/Type **10 inch**	Total Depth of Borehole **16 feet bgs**
Drill Rig Type **Geoprobe 6620D**	Drilling Contractor **RSI Drilling**	Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s) **Direct-Push Sampler**	Hammer Data
Borehole Backfill **Well Completion**	Location **1630 Park Street, Alameda, California**	



Plate

Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring DPE-4

Sheet 1 of 1

Date(s) Drilled January 19, 2012	**Logged By** Harmony Tomsun	**Checked By** Bryan Campbell
Drilling Method Hollow Stem Auger	**Drill Bit Size/Type** 10 inch	**Total Depth of Borehole** 17 feet bgs
Drill Rig Type MARL 5T	**Drilling Contractor** Gregg Drilling	**Approximate Surface Elevation**
Groundwater Level and Date Measured 9.12 feet measured on 1/23/12	**Sampling Method(s)** Direct-Push Sampler	**Hammer Data** W2012-0055
Borehole Backfill Well Completion	**Location** 1630 Park Street, Alameda, California	

Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	PID Reading ~~Relative Consistency~~	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
	0					Concrete		Concrete and Fill No recovery.	4" Blank PVC Neat cement Bentonite #2/12 Sand
	5		DPE-4-7		<1	SP		Light yellowish brown sand, medium density.	
			DPE-4-9		240	SM		Green, loosse silty sand, wet, (20-30% silt), hydrocarbon odor, fine grained sand.	
	10		DPE-4-13		1,713				
	15		DPE-4-16		41.9			Bottom of Boring at 16 feet bgs	Well set to 17' BGs Screened 8-17'
	20								
	25								
	30								

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Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring DPE-5

Sheet 1 of 1

Date(s) Drilled January 20, 2012	**Logged By** Harmony Tomsun	**Checked By** Bryan Campbell
Drilling Method Hollow Stem Auger	**Drill Bit Size/Type** 10 inch	**Total Depth of Borehole** 18 feet bgs
Drill Rig Type MARL 5T	**Drilling Contractor** Gregg Drilling	**Approximate Surface Elevation**
Groundwater Level and Date Measured 8.85 feet measured on 1/23/12	**Sampling Method(s)** Direct-Push Sampler	**Hammer Data** W2012-0055
Borehole Backfill Well Completion	**Location** 1630 Park Street, Alameda, California	

Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	PID Readings Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
0				N/A	Concrete		Concrete and Fill	Blank 4" PVC; Neat cement; Bentonite
					SM		Sandy silt, black/pale brown	
5					SM		Silty sand, brown (7.5YR 4/4), moderately loose, 40% silt.	
		DPE-5-8			SM		Sand with silt (30%), very dark greyish brown (5G 3/2), moderately loose, very moist to wet, hydrocarbon odor.	
10		DPE-5-11			SM		Sheen observed	#2/12 Sand
		DPE-5-14			SM		silty, clayeye sand, yellowish brown, wet, no plasticity.	
15		DPE-5-18					Bottom of Boring at 18 feet bgs	
20								Well set @ 18' BGS; screen 8-18'. (0.010)
25								
30								

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Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring DPE-6

Sheet 1 of 1

Date(s) Drilled January 19, 2012	**Logged By** Harmony Tomsun	**Checked By** Bryan Campbell
Drilling Method Hollow Stem Auger	**Drill Bit Size/Type** 10 inch	**Total Depth of Borehole** 18 feet bgs
Drill Rig Type MARL 5T	**Drilling Contractor** Gregg Drilling	**Approximate Surface Elevation**
Groundwater Level and Date Measured 8.59 feet measured on 1/23/12	**Sampling Method(s)** Direct-Push Sampler	**Hammer Data** W2012-0055
Borehole Backfill Well Completion	**Location** 1630 Park Street, Alameda, California	

Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	PID Reading / Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
	0					Concrete		Concrete and Fill No recovery.	Blank 4" PVC Neat Cement
	5				4.8	SP		Fine grained sand, borwn (7.5YR 4/4)	
			DPE-6-7			SM		Silty sand with (20-30% clay), dark yellowish brown (10YR 3/6), moderate plasticity, firable.	Bentonite
	10		DPE-6-10		10.3	SM		Sand with 30% silt, greyish green (5G 4/2), moderately loose, moist, hydrocarbon odor. ▼ Yellowish brown 10YR 5/6	#2/12 Sand
	15		DPE-6-1 DPE-6-14		9.6	SM		Silty sand, yellowish brown, no plasticity, saturated, loose.	
								Bottom of Boring at 18 feet bgs	Well set @ 18' 0.010 Screen 8-18'
	20								
	25								
	30								

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Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring DPE-7

Sheet 1 of 1

Date(s) Drilled January 19, 2012	**Logged By** Harmony Tomsun	**Checked By** Bryan Campbell
Drilling Method Hollow Stem Auger	**Drill Bit Size/Type** 10 inch	**Total Depth of Borehole** 18 feet bgs
Drill Rig Type MARL 5T	**Drilling Contractor** Gregg Drilling	**Approximate Surface Elevation**
Groundwater Level and Date Measured 14 feet ATD	**Sampling Method(s)** Direct-Push Sampler	**Hammer Data** W2012-0055
Borehole Backfill Well Completion	**Location** 1630 Park Street, Alameda, California	

Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	PID Reading Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
	0					Asphalt		Asphalt and Fill	
								No recovery.	
	5		DPE-7-6		<1	SM		Silty sand (20% silt), strong brown, moderately loose, slightly moist.	
						SP			
						SM		Becomes mottled brown (10YR 5/3) and greenish grey (5GY 5/1), hydrocarbon odor.	
	10		DPE-7-10		5,000			Poorly graded sand, dark greenish grey (5G 4/1), medium density.	
	15		DPE-7-14.5		176	SM		▽ Fine grained sand and silt, wet, very loose, non-cohesive.	
			DPE-7-18		<1			Bottom of Boring at 18 feet bgs. Well not set.	
	20								
	25								
	30								

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Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring DPE-8

Sheet 1 of 1

Date(s) Drilled January 20, 2012	**Logged By** Harmony Tomsun	**Checked By** Bryan Campbell
Drilling Method Hollow Stem Auger	**Drill Bit Size/Type** 10 inch	**Total Depth of Borehole** 18 feet bgs
Drill Rig Type MARL 10T	**Drilling Contractor** Gregg Drilling	**Approximate Surface Elevation**
Groundwater Level and Date Measured 8.21 feet measured on 1/23/12	**Sampling Method(s)**	**Hammer Data** W2012-0055
Borehole Backfill Well Completion	**Location** 1630 Park Street, Alameda, California	

Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
	0					Asphalt		Asphalt and Fill Well Not Logged.	4" PVC Blank Neat Cement Bentonite #2/12 Sand Well Set @ 18' 0.010 screen 8-18'
	5								
	10								
	15								
	20							Bottom of Boring at 18 feet bgs	
	25								
	30								

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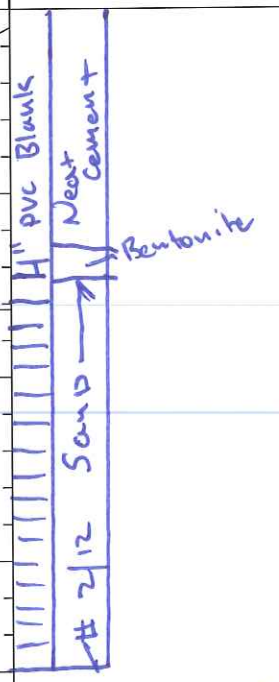
Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring DPE-9

Sheet 1 of 1

Date(s) Drilled January 20, 2012	**Logged By** Harmony Tomsun	**Checked By** Bryan Campbell
Drilling Method Hollow Stem Auger	**Drill Bit Size/Type** 10 inch	**Total Depth of Borehole** 18 feet bgs
Drill Rig Type MARL 10T	**Drilling Contractor** Gregg Drilling	**Approximate Surface Elevation**
Groundwater Level and Date Measured 8.16 feet measured on 1/23/12	**Sampling Method(s)**	**Hammer Data** W2012-0055
Borehole Backfill Well Completion	**Location** 1630 Park Street, Alameda, California	

Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
	0					Asphalt		Asphalt and Fill Well Not Logged.	
	5								
	10								
	15								
	20							Bottom of Boring at 18 feet bgs	
	25								
	30								



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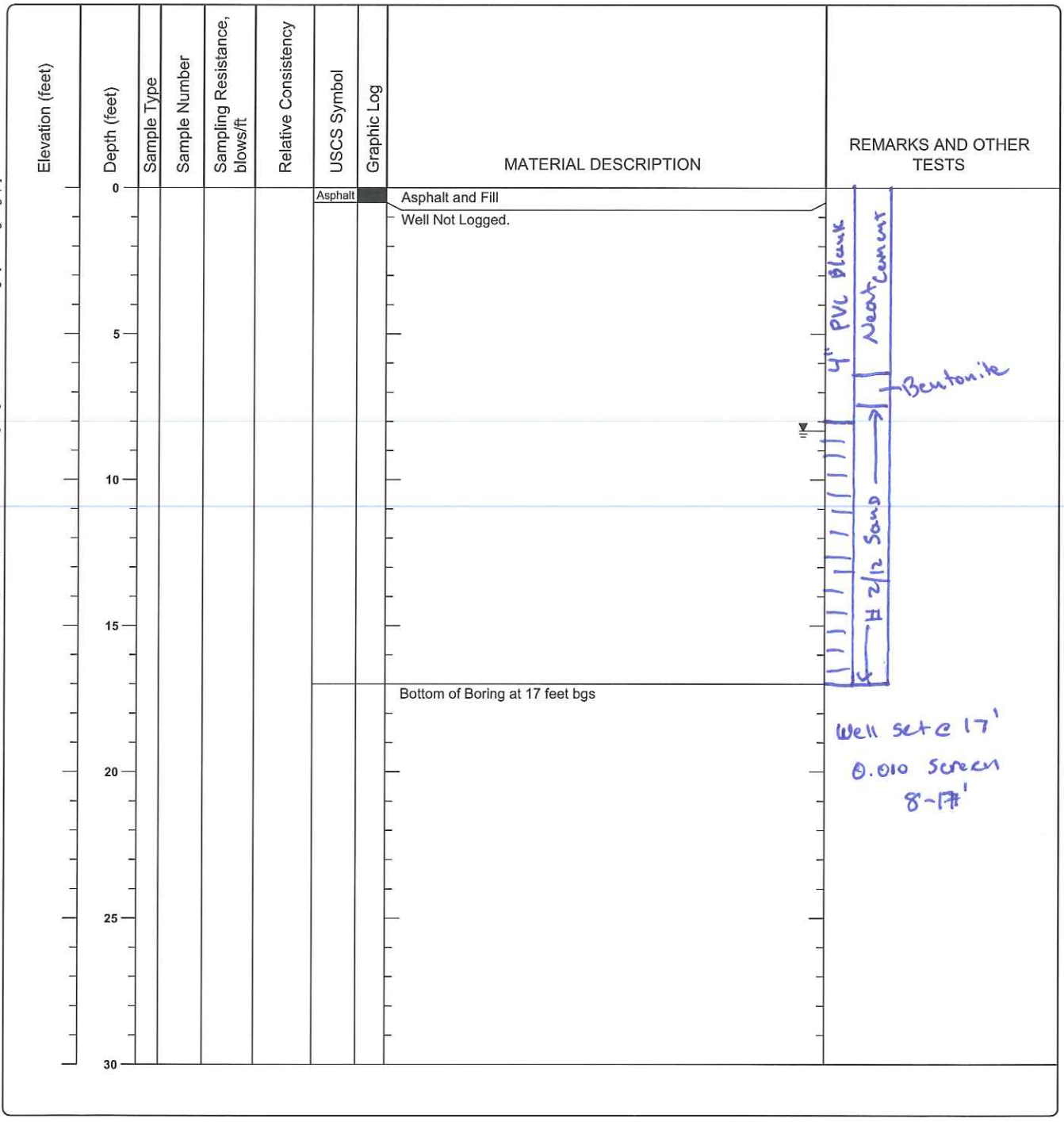
Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring DPE-10

Sheet 1 of 1

Date(s) Drilled January 20, 2012	**Logged By** Harmony Tomsun	**Checked By** Bryan Campbell
Drilling Method Hollow Stem Auger	**Drill Bit Size/Type** 10 inch	**Total Depth of Borehole** 17 feet bgs
Drill Rig Type MARL 10T	**Drilling Contractor** Gregg Drilling	**Approximate Surface Elevation**
Groundwater Level and Date Measured 8.32 feet measured on 1/23/12	**Sampling Method(s)**	**Hammer Data** W2012-0055
Borehole Backfill Well Completion	**Location** 1630 Park Street, Alameda, California	



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Project: Alameda, California
Project Location: 1630 Park Street, Alameda, California
Project Number: 298931

Log of Boring DPE-11

Sheet 1 of 1

Date(s) Drilled January 20, 2012	**Logged By** Harmony Tomsun	**Checked By** Bryan Campbell
Drilling Method Hollow Stem Auger	**Drill Bit Size/Type** 10 inch	**Total Depth of Borehole** 18 feet bgs
Drill Rig Type MARL 10T	**Drilling Contractor** Gregg Drilling	**Approximate Surface Elevation**
Groundwater Level and Date Measured 8.79 feet measured on 1/23/12	**Sampling Method(s)**	**Hammer Data** W2012-0055
Borehole Backfill Well Completion	**Location** 1630 Park Street, Alameda, California	

Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
	0					Asphalt		Asphalt and Fill Well Not Logged.	Blank 4" PVC Neat Cement Bentonite #2/12 Sand Well Set @ 18'; 0.010 Screen @ 3-18'
	5								
	10								
	15								
	20							Bottom of Boring at 18 feet bgs	
	25								
	30								

X:\PROJECTS\CHARACTERIZATION & REMEDIATION\ADVANCED REMEDIATION\Buestad (298931) Alameda - JAS\Boring Logs\DPE-4 to DPE-11.bgs [1-Boring Log.tpl]

SUBSURFACE DATA LOG

DRY DENSITY (lbs cu. ft.) | MOISTURE (% of dry wt.) | "N" VALUE (blows/ft.) | OVM READING (ppm) | SAMPLE TYPE | DEPTH (ft) | LOG | U.S.C.

LOG No. EB-1 DATE: 10/15/93
LOCATION: GOOD CHEVROLET
EQUIPMENT:
PROJECT No.

Depth (ft)	
	2" A/C and 5" Aggregate Base
	SAND, coarse-grained, red, damp (FILL)
	SAND, medium-grained, medium brown (FILL)
	SAND, medium- to coarse-grained, medium gray-brown, damp, loose
5	SAND, medium- to coarse-grained, yellow-brown moist, loose
	SAND, fine-grained, green, moist, dense
10	SAND, medium- to coarse-grained, orange-brown, moist to wet, dense
	gasoline vapors detected between 9 to 11.5 feet
15	Bottom of Boring 11.5 feet

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FIGURE 5

SUBSURFACE DATA LOG

DRY DENSITY (lbs cu. ft.) | MOISTURE (% of dry wt.) | "N" VALUE (blows/ft.) | OVM READING (ppm) | SAMPLE TYPE | DEPTH (ft) | LOG | U.S.C.

LOG No. EB-2 DATE: 10/15/93
LOCATION: GOOD CHEVROLET
EQUIPMENT:
PROJECT No.

3" A/C and 6" Aggregate Base

SAND, medium- to coarse-grained, dark gray, damp, loose, contains brick fragments (FILL)

5

SAND, medium- to coarse-grained, yellow-brown, moist, loose

10

SAND, medium- to coarse-grained, orange-brown moist, dense

gasoline vapors detected between 9-12 feet

15

Bottom of Boring 12 feet

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FIGURE 6

SUBSURFACE DATA LOG

LOG No. EB-3 DATE: 10/15/93
LOCATION: GOOD CHEVROLET
EQUIPMENT:
PROJECT No.

DRY DENSITY (lbs cu. ft.)	MOISTURE (% of dry wt.)	"N" VALUE (blows/ft.)	OVM READING (ppm)	SAMPLE TYPE	DEPTH (ft)	LOG	U.S.C.	
								2" A/C and 6" Aggregate Base
								SAND, medium- to coarse-grained, dark gray, damp contains brick fragments (FILL)
					5			SAND, medium- to coarse-grained, yellow-brown, moist, dense
								SAND, medium- to coarse-grained, orange-brown, moist, dense
								SAND, medium-grained, green, moist
					10			SAND, fine- to medium-grained, blue-gray, moist gasoline vapors between 9-12 feet
								SAND, medium- to coarse-grained, blue-gray, wet dense
					15			Bottom of Boring 13 feet

SUBSURFACE DATA LOG

LOG No. EB-4 DATE: 10/15/93
LOCATION: GOOD CHEVROLET
EQUIPMENT:
PROJECT No.

DRY DENSITY (lbs cu. ft.)	MOISTURE (% of dry wt.)	"N" VALUE (blows/ft.)	OVM READING (ppm)	SAMPLE TYPE	DEPTH (ft)	LOG	U.S.C.	
								2" A/C and 6" Aggregate Base
								SAND, fine- to coarse-grained, dark gray, damp loose, contains brick fragments (FILL)
					5			SAND, medium-grained, orange-brown, moist, dense
					10			SAND, medium- to coarse-grained, greenish-brown, moist, dense gasoline vapors detected between 8-11.5'
					15			Bottom of Boring 11.5 feet

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FIGURE 8

SUBSURFACE DATA LOG

DRY DENSITY (lbs cu. ft.) | MOISTURE (% of dry wt.) | "N" VALUE (blows/ft.) | OVM READING (ppm) | SAMPLE TYPE | DEPTH (ft) | LOG | U.S.C.

LOG No. EB-5 DATE: 10/15/93
LOCATION: GOOD CHEVROLET
EQUIPMENT:
PROJECT No.

2" A/C and 5" Aggregate Base

SAND, medium-grained, dark gray, brick fragments (FILL)

SAND, medium-grained, yellow-brown, damp, loose

5

SAND, medium- to coarse-grained, orange-brown, damp, dense

greenish staining at 8 to 9 feet, gasoline vapors at 8.5 to 12 feet

10

SAND, coarse-grained, orange-brown, wet, dense

Bottom of Boring 12.5 feet

15

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FIGURE 9

SUBSURFACE DATA LOG

DRY DENSITY (lbs cu. ft.) | MOISTURE (% of dry wt.) | "N" VALUE (blows/ft.) | OVM READING (ppm) | SAMPLE TYPE | DEPTH (ft) | LOG | U.S.C.

LOG No. EB-6 DATE: 10/15/93
LOCATION: GOOD CHEVROLET
EQUIPMENT:
PROJECT No.

3" A/C and 6" Aggregate Base

SAND, medium- to coarse-grained, gray-brown, damp, loose, contains brick fragments (FILL)

SAND, medium- to coarse-grained, yellow-brown, moist, dense

5

SAND, medium- to coarse-grained, orange-brown, damp to moist, dense

gasoline vapors at 9 feet

10

Bottom of Boring 9 feet

15

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FIGURE 10

SUBSURFACE DATA LOG

LOG No. EB-7 DATE: 10/15/93

LOCATION: GOOD CHEVROLET

EQUIPMENT:

PROJECT No.

DRY DENSITY (lbs. cu. ft.)	MOISTURE (% of dry wt.)	"N" VALUE (blows/ft.)	OVM READING (ppm)	SAMPLE TYPE	DEPTH (ft)	LOG	U.S.C.	
								2" A/C and 6" Aggregate Base
								SAND, medium-grained, dark gray, damp, brick fragments (FILL)
					5			SAND, medium- to coarse-grained, yellow-brown, moist, dense
								SAND, medium- to coarse-grained, orange-brown, moist, dense
								gasoline vapors at 9 to 9.5 feet
					10			Boring terminated at 9.5 feet
					15			

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FIGURE 11

BORING LOG

LOCATION Good Chevrolet, Alameda, CA

DATE 1/21/97

DRILLER Precision Sampling, Inc.

BORING No. EB8

DEPTH (ft)	DESCRIPTION	U.S.C.	OVM/PID	WELL DESIGN	SAMPLE	BLOW COUNT	COMMENTS
5	CLAYEY SAND, red-brown, moist, dense	SC	120		S1		strong gas odors
10			950		S2		
	CLAYEY SAND, green (vapor stained) wet, dense	SC	970				
15	CLAYEY SAND, brown, wet, dense	SC	120		S3		
	Bottom of boring 16-feet						
20							

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FIGURE

BORING LOG

LOCATION Good Chevrolet, Alameda, CA

DATE 1/21/97

DRILLER Precision Sampling, Inc.

BORING No. EB9

DEPTH (ft.)	DESCRIPTION	U.S.C.	OVM/PID	WELL DESIGN	SAMPLE	BLOW COUNT	COMMENTS
	SAND, medium-grained, dark-brown, moist, medium dense	SM					
5			90		S1		
10	-slight green coloration (staining)		340		S2		
	Bottom of boring 13-feet.						
15							
20							

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FIGURE

BORING LOG

LOCATION Good Chevrolet, Alameda, CA

DATE 1/21/97

DRILLER Precision Sampling, Inc.

BORING No. EB10

DEPTH (ft.)	DESCRIPTION	U.S.C.	OVM/PID	WELL DESIGN	SAMPLE	BLOW COUNT	COMMENTS
	SAND, medium-grained, brown, moist, dense	SM					
5	SAND, medium-grained, orange-brown, moist, dense	SP/SM	120				
	SAND, gray-brown, moist, dense	SM	850		S1		strong gas odor
10	SAND, red-bronw, wet, dense	SP/SM	250				
15	Bottom of boring 13-feet.						
20							

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FIGURE

BORING LOG

LOCATION Good Chevrolet, Alameda, CA

DATE 1/21/97

DRILLER Precision Sampling, Inc.

BORING No. EB11

DEPTH (ft.)	DESCRIPTION	U.S.C.	OVM/PID	WELL DESIGN	SAMPLE	BLOW COUNT	COMMENTS
	SANDY GRAVEL, dark brown, moist, dense	GM					
	SAND, tan, damp, dense	SP					
5	SAND, brown, moist, dense	SM	80				
	CLAYEY SAND, red-brown, moist, dense	SC					
10	CLAYEY SAND, mottled red-green (vapor stain) moist, dense	SC	160		S1		
	SAND, blue-green, wet, dense	SM	340		S2		
15	Bottom of boring 13-feet.						
20							

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FIGURE

BORING LOG

LOCATION Good Chevrolet, Alameda, CA

DATE 1/21/97

DRILLER Precision Sampling, Inc.

BORING No. EB12

DEPTH (ft.)	DESCRIPTION	U.S.C.	OVM/PID	WELL DESIGN	SAMPLE	BLOW COUNT	COMMENTS
	SANDY GRAVEL, gray, moist, loose	GP					tank backfill
5	SAND, red-brown, moist, dense	SM					
	CLAYEY SAND, green, moist, dense (stained)	SC	340				native
10	SAND, medium-grained, gray-green (vapor stained) wet, dense	SM	380 650		S1 S2		
15	SAND, brown, wet, dense	SP	40				
	Bottom of boring 16-feet.						
20							

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FIGURE

BLYMYER ENGINEERS, INC.

Soil Bore Log: GP1

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: April 29, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 16.0 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▽ 7.5 feet

(Grouted upon completion)

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					4-inch section asphalt	Asphalt	
1					Pale yellowish brown (10YR 6/3) SILTY SAND, fine grained; damp.	SM	
2							
3					Yellowish brown (10YR 5/4) SILTY SAND, fine grained; damp.		
4		0					
5						SM	
6							
7		394					
8				GP1-7.5			
				GP1-8	Light olive brown (2.5Y 5/3) CLAYEY SAND; fine grained; slight petroleum odor; very moist to wet.	SC	
9					Light olive brown (2.5YR 5/3) SILTY SAND; fine grained; with 15% clay; very moist to wet.		
10						SM	
11		630					
12				GP1-11.5	Grades pale olive (5Y 6/3); moderate codor; tight; wet.		
13		247				SM	
14					Yellow brown (10YR 5/4) SILTY SAND; fine grained; no odor; wet.		
15				GP1-15		SM	
16					Bottom of bore: 16 feet		
17							
18							
19							
20							
21							

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP2

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: April 29, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 16.0 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▼ ; ▽ 7.5 feet

(Grouted upon completion)

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					4-inch section asphalt	Asphalt	
1–6					Dark yellowish brown (10YR 3/4) SILTY SAND, fine grained; damp.	SM	
7		0		GP2-6.5			
8					Yellowish brown (10YR 5/6) SILTY SAND; fine grained; with clay; wet.	SM	
9–10					Yellowish brown (10YR 5/6) SILTY SAND; fine grained; with clay; wet.	SM	
11				GP2-11	Olive brown (2.5Y 4/3); SILTY SAND; fine grained; very mosit to wet.	SM	
12		10			Yellowish brown (10YR 5/4) SILTY SAND; fine grained; no odor; wet.	SM	
13		0		GP2-13			
14–15					As above	SM	
16					Bottom of bore: 16 feet		
17–21							

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP3

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: April 29, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-Inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 16.0 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▼ ; ▽ 7.0 feet

(Grouted upon completion)

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					4-inch section asphalt	Asphalt	
1					Dark yellowish brown (10YR 3/4) SILTY SAND, fine grained; damp.	SM	
2							
3					Very dark yellowish brown (10YR 2/2) SILTY SAND, fine grained; humus rich organics; damp.	SM	
4					Dark yellowish brown (10YR 3/4) SILTY SAND; fine grained; damp.	SM	
5					As above; hard / firm.	SM	
6		0			Dark yellowish brown (10YR 3/4) CLAYEY SAND; fine grained; with silt; moist.	SC	
7				GP3-6.75	Dark yellowish brown (10YR 3/4) SILTY SAND, fine grained; moist to wet.	SM	
8							
9							
10							
11		0					
12				GP3-11.5			
13							
14					As above.		
15		0				SM	
16					Bottom of bore: 16 feet		
17							
18							
19							
20							
21							

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP4

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: April 29, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 20.0 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▼ 7.0 feet

(Grouted upon completion)

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					4-inch section asphalt	Asphalt	
1					Brownish yellow (10YR 6/8) crushed rock (FILL)	GW	
2					Dark yellowish brown (10YR 3/4) SILTY SAND, fine grained; damp.	SM	
3					Very dark grayish brown (10YR 2/2) SILTY SAND, fine grained; damp.	SM	
4		4			Dark yellowish brown (10YR 3/4) SILTY SAND, fine grained; damp.	SM	
5							
6							
7		38		GP4-6.75			
8							
9					Olive brown (2.5Y 4/3) to Dark yellowish brown (10YR 3/4) CLAYEY SAND to CLAYEY SILT to SILTY SAND; fine grained; interbedded wet.	SC	
10					Olive (5Y 5/3) SILTY SAND, fine grained, with traces of clay, wet.	SM	
11		57					
12				GP4-11.5			
13							
14					Olive (5Y 5/3) SAND; fine grained; with silt; very loose to flowing; wet.	SP	
15				GP4-14.5	Yellowish brown (10YR 5/4) SILTY SAND, fine grained; wet.	SM	
16							
17		8		GP4-17	Very loose to flowing SAND, alternating with stiffer CLAYEY SAND (2 to 4 inch layers), wet (potentially not in place).	SP	
18							
19					As above; increased silt content; firming.	SM	
20					Bottom of bore: 20 feet		
21							

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Soil Bore Log: GP5

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: April 29, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 20.0 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▼ 7.75 feet

(Grouted upon completion)

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					4-inch section asphalt	Asphalt	
1					Brownish yellow (10YR 6/8) crushed rock and brick fragments (FILL)	GW	
2					Dark yellowish brown (10YR 3/4) SILTY SAND, fine grained; damp.	SM	
3							
4		0					
5					Dark yellowish brown (10YR 3/4) CLAYEY SAND, fine grained; with silt; dense; damp.	SC	
6							
7		10					
8				GP5-7.5	Light olive brown (2.5Y 5/3) SANDY SILT; fine grained sand (20%), with clay; very moist	ML	
9					Mottled light olive brown (2.5Y 5/3) and dark yellowish brown (10YR 3/4) SILTY SAND, fine grained, wet.	SM	
10					Light olive brown (2.5Y 5/3) SILTY SAND; fine grained; wet.	SM	
11		652					
12				GP5-11.5			
13							
14		424					
15					Dark yellowish brown (10YR 4/4) SILTY SAND, fine grained; wet.	SM	
16							
17					As above, very loose, to flowing SILTY SAND, wet (in place?)	SM	
18							
19				GP5-19	As above; increased silt content; firming.	SM	
20					Bottom of bore: 20 feet		
21							

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP6

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: April 29, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 20.0 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▽ 7.75 feet

(Grouted upon completion)

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					4-inch section asphalt	Asphalt	
1					Brownish yellow (10YR 6/8) crushed rock (FILL)	GW	
2					Very dark brown (10YR 2/2) SILTY SAND, fine grained; damp.	SM	
3					Yellowish brown (10YR 5/4) SILTY SAND, fine grained; damp.	SM	
7		2.4		GP6-7.5			
8					Light olive brown (2.5Y 5/3) CLAYEY SAND; fine grained sand (50%); very moist to wet.	SC	
9					Light olive brown (2.5Y 5/3) SILTY SAND, fine grained, wet.	SM	
11				GP6-11	Black staining at 11 to 12 ft bgs.		
12		808				SM	
16					Yellowish brown (10YR 5/4) SILTY SAND, fine grained; wet.	SM	
17					Potentially SLUFF: Olive (5Y 4/4) SILTY SAND, wet; flowing, (in place??)	SM	
18		289			Depth interval for PID bag sample - uncertain.	SM	
20					Bottom of bore: 20 feet		

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP7

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: April 30, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 24.5 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▼ 7.75 feet

(Grouted upon completion)

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS
0					4-inch section asphalt	Asphalt
1					Dark yellowish brown (10YR 3/4) SILTY SAND, fine to medium grained; damp.	SM
2					Grades lighter	
3						
4						
5						SM
6						
7						
8		404		GP7-8	Dark yellowish brown (10YR 3/4) CLAYEY SAND; fine grained sand (50%); very moist to wet.	SC
9					Dark gray (5Y 4/1) SILTY SAND, fine grained, petroleum odor; dark staining in top 1 to 2 ft; wet.	
10						
11						
12						SM
13						
14						
15		493				
16					Yellowish brown (10YR 5/4) SILTY SAND, fine grained; very loose to flowing, wet.	SM
17					Grades medium to fine grained; flowing to very loose; wet.	SM
18					Firms at 17 ft.	SM
19		3			Very loose to flowing 18 to 20 ft.	SM
20				GP7-19.5	Firms at 20 ft.	SM
21					Very loose to flowing 21 to 22 ft.	SM
22					Yellowish brown (10YR 5/4) SILTY SAND, fine to medium grained; loose; wet.	
23		8				SM
24				GP7-23.5		
25					Bottom of Bore: 24.5 feet	

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP8

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: May 1, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 20 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▼ 7.5 feet

(Grouted upon completion)

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					4-inch section asphalt	Asphalt	
1					Dark yellowish brown (10YR 3/4) SILTY SAND, fine grained; damp.	SM	
2							
3							
4					Grades yellowish brown (10YR 5/4)		
5						SM	
6							
7					Yellowish brown (10YR 5/4) SANDY CLAY; fine grained sand (50%); moist.	SC	
8		883			Olive (5Y 4/3) SILTY SAND, fine grained, petroleum odor; wet.	SM	
9				GP8-8.5	Yellowish brown (10YR 5/4) SILTY SAND, fine grained; wet.	SM	
10					Olive (5Y 4/3) SILTY SAND, fine grained; wet.		
11						SM	
12							
13		2,153					
14					As above, fine grained; flowing, wet (10% recovery 12 to 16 ft; Uncertain depth for PID bag sample).		
15						SM	
16							
17					Olive SILTY SAND, fine grained; very loose to flowing; wet (in place?)		
18						SM	
19		582			Firms at 19 ft.	SM	
20				GP8-19.5	Yellowish brown SILTY SAND, fine grained; wet; firmer.	SM	
21					Bottom of Bore: 20 feet		

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP9

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: May 1, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 16 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▼ 7.75 feet

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					6-inch section asphalt		
1					Dark yellowish brown (10YR 3/4) SILTY SAND, fine to medium grained; dry at top; increasing moisture with depth.	SM	
2							
3							
4							
5							
6							
7		0			Dark yellowish brown (10YR 3/4) CLAYEY SAND, fine grained; with silt; moist to very moist.	SC	
8				GP9-7.5			
9							
10					Olive (5Y 4/3) SILTY SAND, fine grained, very slight petroleum odor; wet.	SM	
11				GP9-11.25			
12		2					
13							
14					Yellowish brown (10YR 5/4) SILTY SAND, fine grained; wet.	SM	
15		0					
16				GP9-15.5	Bottom of Bore: 16 feet		
17							
18							
19							
20							
21							

(Grouted upon completion)

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP10

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: April 30, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 20 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▼ ; ▽ 7.5 feet

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					6-inch section asphalt		
1					Dark yellowish brown (10YR 3/4) SILTY SAND, fine grained; to SANDY SILT; dry.	SM	
2							
3							
4		0			Grades yellowish brown (10YR 5/4); damp.	SM	
5							
6							
7		29			Olive (5YR 4/3) SILTY SAND, fine to medium grained; with trace clay; strong petroleum odor; very moist to wet.	SM	
8				GP10-7.5			
9							
10							
11					Olive (5Y 4/3) SAND, fine grained; with silt; strong odor; wet.	SP	
12					Olive (5Y 4/3) SILTY SAND, fine grained, strong odor; wet.	SM	
13					Yellowish brown (10YR 5/4) SILTY SAND, fine grained; wet	SM	
14					Yellowish brown (10YR 5/4) SANDY CLAY; fine grained; wet.	SC	
15		10			Olive (5Y 4/3) SILTY SAND, fine grained, wet. (In place?)	SM	
16				GP10-15.5	Yellowish brown (10YR 5/4) SILTY SAND, fine grained; very loose; wet (mottled with olive at top - may be sluff).	SM	
17							
18							
19		33			Firmer at 18.5 ft.; in place.	SM	
20				GP10-19.5	Bottom of Borehole 20 feet		
21							

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP11

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: April 30, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 20 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: 7.5 feet

(Grouted upon completion)

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					6-inch section asphalt		
1					Yellowish brown (10YR 5/4) SILTY SAND, fine to medium grained, damp.	SM	
2					Dark yellowish brown (10YR 3/4) CLAYEY SAND, fine grained; with silt; damp.	SC	
3					Yellowish brown (10YR 5/4) SILTY SAND, fine to medium grained; damp.	SM	
4							
5							
6				GP11-6	Olive (5YR 4/3) SILTY SAND, fine to medium grained; damp.	SM	
7					Olive (5Y 4/3) CLAYEY SAND, fine to medium grained; with silt; moist.	SC	
8		769		GP11-8	Olive (5Y 4/3) SILTY SAND, fine to medium grained; wet.	SM	
					Olive (5Y 4/3) CLAYEY SAND, fine grained, strong petroleum odor; wet.	SC	
9					Olive (5Y 4/3) SILTY SAND, fine to medium grained; strong odor; wet.	SM	
10					Olive (5Y 4/3) CLAYEY SAND, fine grained, wet,	SC	
11		746		GP11-11.5	Olive (5Y 4/3) SILTY SAND, fine to medium grained; strong odor; wet.	SM	
12					Olive (5YR 4/3) SILTY SAND, fine grained; wet.	SM	
13							
14							
15		1,282		GP11-15.5	Very loose to flowing between 14.5 and 15.5 ft.	SM	
16							
17					Yellowish brown (10YR 5/4) SILTY SAND, fine grained; very loose to flowing; wet.	SM	
18		946		GP11-18	Stiffer; minor clay.		
19						SM	
20					Bottom of Borehole 20 feet		
21							

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP12

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: April 30, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 16 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▼ 7.75 feet

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					6-inch section asphalt		
1					Dark yellowish brown (10YR 3/4) SILTY SAND, fine to medium grained, damp.	SM	
2							
3							
4		0					
5					Yellowish brown (10YR 5/4) SILTY SAND, fine to medium grained; damp.	SM	
6							
7					Yellowish brown (10YR 5/4) CLAYEY SAND, fine grained, very moist to wet.	SC	
8		1,864		GP12-7.5	Olive (5Y 4/3) SILTY SAND, fine grained, strong petroleum odor; wet.	SM	
9							
10							
11		206		GP12-11			
12					Olive (5Y 4/3) SAND, fine to medium grained, trace silt; wet.	SP	
13					Very fine grained; loose to flowing.	SP	
14					As before. Sheen in water noticed at 13 ft; source uncertain.	SM	
15					Yellowish brown (10YR 5/4) SILTY SAND, fine grained; wet.	SM	
16				GP12-15.5	Bottom of Borehole 16 feet		
17							
18							
19							
20							
21							

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP13

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: April 30, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 16 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▼ ; ▽ 7.75 feet

(Grouted upon completion)

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					6-inch section asphalt		
1					Dark yellowish brown (10YR 3/4) SILTY SAND, fine grained, damp.	SM	
2							
3					Yellowish brown (10YR 5/4) SILTY SAND, fine grained; damp.		
4							
5						SM	
6							
7		0		GP13-7.25	Olive brown (2.5YR 4/3) SAND, fine to medium grained, 10% clay; very moist to wet.	SC	
8					Olive (5Y 4/3) SILTY SAND, fine to medium grained, very moist / wet.		
9							
10						SM	
11		183		GP13-11			
12					Yellowish brown (10YR 5/4) SILTY SAND, fine grained; very loose to flowing; wet.		
13							
14		3.5		GP13-14		SP	
15							
16					Bottom of Borehole 16 feet		
17							
18							
19							
20							
21							

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP14

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: April 30, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 16 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▼ ; ▽ 7.75 feet

(Grouted upon completion)

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					6-inch section asphalt	Asphalt	
1–3					Dark yellowish brown (10YR 3/4) SILTY SAND, fine to medium grained, damp.	SM	
4					Yellowish brown (10YR 5/6) SILTY SAND, fine grained; damp.	SM	
5					Yellowish brown (10YR 5/6) SILTY CLAY, 40% fine grained sand, stiff; moist.	CL	
6–7		0		GP14-7.5	Yellowish brown (10YR 5/6) CLAYEY SAND, fine grained; moist to wet.	SC	
8–10							
11		15		GP14-11	Olive (5Y 5/3) SILTY SAND, fine grained, very loose, odor, wet.	SM	
12–13					Yellowish brown (10YR 5/4) SILTY SAND, fine grained; very loose to flowing; wet.	SM	
14		0		GP14-14			
15					No Recovery		
16					Bottom of Borehole 16 feet		
17–21							

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP15

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: April 30, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 16 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▽ 7.75 feet

(Grouted upon completion)

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					6-inch section asphalt	Asphalt	
1					Dark yellowish brown (10YR 4/4) SILTY SAND, fine grained, damp.	SM	
2							
3							
4					Yellowish brown (10YR 5/6) SILTY SAND, fine grained; damp.	SM	
5							
6							
7		0					
8				GP15-7.5	Yellowish brown (10YR 5/6) SILTY CLAY, 40% fine grained sand, stiff; very moist.	CL	
9					Yellowish brown (10Y 5/6) SILTY SAND, fine grained, wet.	SM	
10							
11		0					
12				GP15-11.5			
13							
14					Yellowish brown (10YR 5/6) SILTY SAND, fine grained; very loose; wet.	SM	
15		0			Grey (10YR 5/1) SILTY SAND, fine grained, wet.	SM	
16					As before.	SM	
					Bottom of Borehole 16 feet		
17							
18							
19							
20							
21							

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP16

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: May 1, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 16 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▼ 7.75 feet

(Grouted upon completion)

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					6-inch section asphalt	Asphalt	
1					Dark yellowish brown (10YR 4/4) SILTY SAND, fine grained, dry.	SM	
2							
3							
4					Yellowish brown (10YR 5/6) SILTY SAND, 70% fine grained; damp.	SM	
5					Decrease in sand content to approximately 50%.		
6							
7		3		GP16-7.5		SM	
8							
9							
10		0		GP16--10.5			
11					As above; several 2 - 3 inch thick very loose to flowing layers at 11 - 12 ft; wet.		
12							
13						SM	
14							
15		0					
16					Bottom of Borehole 16 feet		
17							
18							
19							
20							
21							

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP17

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: May 1, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 16 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▼ ; ▽ 8.25 feet

(Grouted upon completion)

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					6-inch section asphalt	Asphalt	
1					Dark yellowish brown (10YR 4/4) SILTY SAND, fine grained, dry.	SM	
2							
3							
4					Yellowish brown (10YR 5/6) SILTY SAND, 50% sand; fine grained; dry to damp.	SM	
5					Yellowish brown (10YR 5/6) SILTY CLAY, 25% fine grained sand, damp.	CL	
6							
7		0					
8				GP17-7.5			
9					Light olive brown (2.5Y 5/3) SILTY SAND, fine grained, wet.	SM	
10							
11		0					
12				GP17-11.5	Several very loose layers 2 - 3 inches thick.	SM	
13							
14							
15							
16					Bottom of Borehole 16 feet		
17							
18							
19							
20							
21							

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP18

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: May 1, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 16 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▼ 8.0 feet

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					6-inch section asphalt	Asphalt	
1					Dark yellowish brown (10YR 4/4) SILTY SAND, fine to medium grained, dry.	SM	
2							
3					Yellowish brown (10YR 5/6) SILTY SAND, 50% sand; fine grained; dry.	SM	
4							
5							
6							
7		0					
8				GP18-7.5	Yellowish brown (10YR 5/6) CLAYEY SAND, fine grained; 30% clay; very moist to wet.	SC	
9					Light olive brown (2.5Y 5/3) SILTY SAND, fine grained, wet.	SM	
10		0		GP18-10			
11					Several very loose layers 2 - 3 inches thick.	SM	
12							
13							
14				GP18-14	As above.	SM	
15							
16					Bottom of Borehole 16 feet		
17							
18							
19							
20							
21							

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP19

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: May 1, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-Inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 16 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▽ 7.75 feet

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					6-inch section asphalt	Asphalt	
1					Dark yellowish brown (10YR 4/4) SILTY SAND, fine grained, 50% silt; dry.	SM	
2							
3					Yellowish brown (10YR 5/6) SILTY SAND, 50% sand; fine grained; dry.	SM	
4							
5							
6							
7				GP19-7	Yellowish brown (10YR 5/6) CLAYEY SAND, fine grained; 30% clay; very moist to wet.	SC	
8		0			Yellowish brown (10YR 5/6) SILTY SAND, fine grained, wet.	SM	
9							
10					Very loose 9.5 to 15 ft.	SM	
11		0					
12				GP19-11.5			
13							
14							
15		0			Firms at 15 ft; more silt.	SM	
16					Bottom of Borehole 16 feet		
17							
18							
19							
20							
21							

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP20

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: May 1, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 16 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▼ 7.75 feet

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					6-inch section asphalt	Asphalt	
1–3					Dark yellowish brown (10YR 4/4) SILTY SAND, fine grained, 50% silt; dry.	SM	
4					Yellowish brown (10YR 5/6) SILTY SAND, 50% sand; fine grained; dry.	SM	
5–6					Yellowish brown (10YR 5/6) CLAYEY SAND, fine grained; 30% clay; very moist to wet.	SC	
7		0			Damp at 7 ft.	SC	
8				GP20-8	Yellowish brown (10YR 5/6) SILTY SAND, fine grained, wet.	SM	
9		0			Slightly grey between 8.5 - 9 ft.	SM	
10–11					Multiple very loose layers 2 - 3 inches.	SM	
12–14						SM	
15		0		GP20-15.5		SM	
16					Bottom of Borehole 16 feet		
17–21							

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP21

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: May 2, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 20 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▼ ; ▽ 8.0 feet

(Grouted upon completion)

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					4-inch section concrete.		
1					Dark brown (10YR 3/3) SILTY SAND, fine grained; dry.	SM	
2							
3							
4		0					
5							
6					Yellowish brown (10YR 5/6) SILTY SAND, fine grained; dry.	SM	
7		139					
8				GP21-7.5	Olive (5Y 5/3) SANDY SILT, 30% fine sand; with clay; moist.	ML	
9					Olive (5YR 5/3) SILTY SAND, fine grained, wet.	SM	
10		29					
11				GP21-10.5			
12							
13							
14		606			Olive (5Y 5/3) SANDY SILT, fine grained; wet.	ML	
15					Yellowish brown (10YR 5/6) SILTY SAND, fine grained, wet.	SM	
16				GP21-15.5			
17					Grades into Grey (10YR 5/1) SILTY SAND, fine grained; very loose to flowing; wet.	SM	
18							
19		30			Yellowish brown (10YR 5/6) SILTY SAND, fine grained, firm; wet.	SM	
20				GP21-19.5	Bottom of Borehole 20 feet		
21							

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP22

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: May 2, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 16 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▽ 7.75 feet

(Grouted upon completion)

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					4-inch section concrete		
1					Dark brown (10YR 3/3) SILTY SAND, fine grained, dry.	SM	
2					Dark yellowish brown (10YR 4/4) SILTY SAND, fine grained, dry.	SM	
3					Yellowish brown (10YR 5/6) SILTY SAND, fine grained; dry.	SM	
4		0					
5							
6							
7							
8					Olive (5Y 5/3) CLAYEY SILT, with 20% fine grained sand, wet.	ML	
9							
10							
11		497		GP22-10.5			
12					Yellowish brown (10YR 5/6) SILTY SAND to SANDY SILT, 50% fine grained sand; wet.	SM	
13					Olive SILTY SAND (sluff?), fine grained, loose (sluff?) wet.	SM	
14					Yellowish brown (10YR 5/6) SILTY SAND, fine grained; wet.	SM	
15		6		GP22-15.5			
16					Bottom of Borehole 16 feet		
17							
18							
19							
20							
21							

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP23

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: May 2, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 20 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▼ 8.0 feet

(Grouted upon completion)

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					4-inch section asphalt	Asphalt	
1					Dark brown (10YR 3/3) SILTY SAND, fine grained, dry to damp.	SM	
2							
3		0					
4				GP23-3.5			
5					Yellowish brown (10YR 5/6) SILTY SAND, fine grained; damp.	SM	
6							
7							
8				GP23-7.5	Yellowish brown (10YR 5/6) SANDY SILT, 20% fine grained sand, tight, very moist to wet.	ML	
9		642			Olive (5Y 5/3) SILTY SAND, wet.	SM	
10					Approx 50% fine sand.	SM	
11		255			2 inch CLAYEY SILT, layer.		
12				GP23-11.5		SM	
13							
14					Yellowish brown (10YR 5/6) SILTY SAND, fine grained, wet.	SM	
15		28					
16				GP23-16	Light olive brown (2.5Y 5/4) SILTY SAND, fine grained, wet.	SM	
17					As above; very loose to flowing.	SM	
18							
19					Yellowish brown (10YR 5/6) SILTY SAND, fine grained, wet.	SM	
20					Bottom of Borehole 20 feet		
21							

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BLYMYER ENGINEERS, INC.

Soil Bore Log: GP24

Good Chevrolet
1630 Park Street
Alameda, California

Job Number:	: 207055	Drilling Equipment	: Geoprobe
Date Drilled:	: May 2, 2008	Sample Method	: Continuous sleeve
Logged By	: Mark Detterman	Soil Bore Diameter	: 1.75-inch
Drilling Company	: Precision Drilling, Inc.	Total Drilled Depth	: 20 feet
Driller	: Israel Ramirez	Bore Angle	: No

Sample Recovery: Collected; Retained; Analyzed; Unrecovered

Water Level: ▼ ; ▽ 7.0 feet

Depth in Feet	Blow Count	PID	Sample Recovery	Sample No.	DESCRIPTION	USCS	GRAPHIC
0					4-inch section asphalt	Asphalt	
1					Dark brown (10YR 3/3) SILTY SAND, fine grained, damp.	SM	
2							
3					Grades lighter with depth	SM	
4							
5					Dark yellowish brown (10YR 4/4) SILTY SAND, fine grained; damp.	SM	
6					Yellowish brown (10YR 5/6) SILTY SAND, 60% fine grained sand, wet.	SM	
7					Yellowish brown (10YR 5/6) CLAYEY SILT, 30% fine grained sand, tight, very moist to wet.	ML	
8					Olive (5Y 5/3) SILTY SAND, wet.	SM	
9		1,122		GP24-8.5	Dark greenish-gray (5GY 4/1) SILTY SAND, fine grained, odor; wet. Isolated blobs of dark free phase between 8.5 and 9.0 ft.	SM	
10					Grades darker green at 10 - 11 ft.	SM	
11					Grades back to Olive.		
12							
13						SM	
14		136					
15							
16					Rusty brown to yellowish brown (10YR 5/8) SILTY SAND, fine grained, very loose to flowing; wet.		
17		136					
18						SM	
19		78					
20				GP24-20	Bottom of Borehole 20 feet		
21							

(Grouted upon completion)

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STATE OF CALIFORNIA

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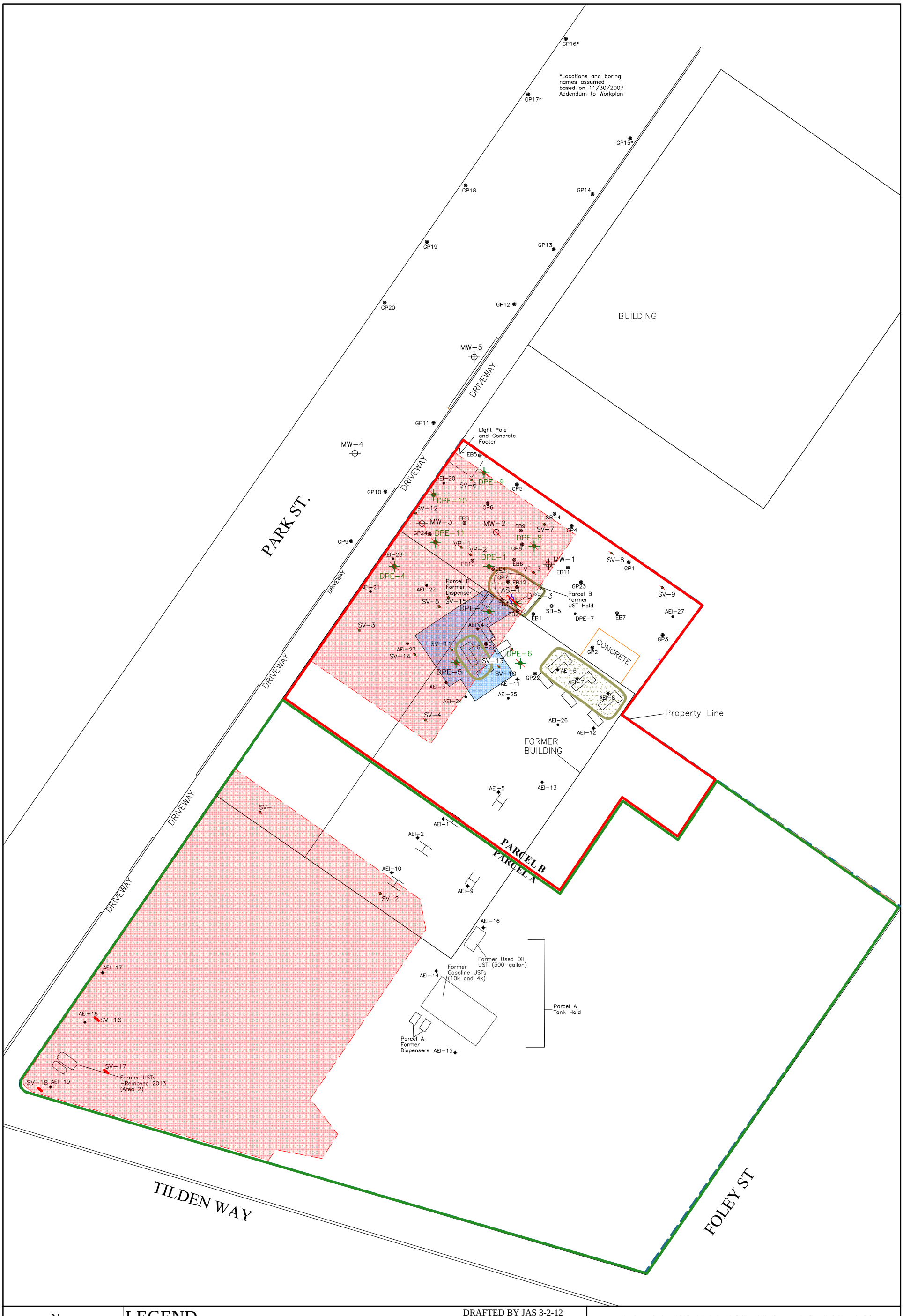
APPENDIX B

PROPOSED BUILDING PLAN


*Locations and boring names assumed based on 11/30/2007 Addendum to Workplan
GP16*
GP17*
GP15*
GP18
GP14
GP19
GP13
GP20
GP12
BUILDING
MW-5
DRIVEWAY
GP11
MW-4
Light Pole and Concrete Footer
GP10
DRIVEWAY
PARK ST.
GP9
DRIVEWAY
DRIVEWAY
DRIVEWAY
DRIVEWAY
MW-3
MW-2
MW-1
DPE-9
DPE-10
DPE-11
DPE-8
DPE-1
DPE-4
DPE-3
DPE-2
DPE-6
DPE-5
VP-1
VP-2
VP-3
AS-1
Parcel B Former Dispenser
Parcel B Former UST Hold
CONCRETE
Property Line
FORMER BUILDING
PARCEL B
PARCEL A
SV-1
SV-2
SV-3
SV-4
SV-5
SV-6
SV-7
SV-8
SV-9
SV-10
SV-11
SV-12
SV-13
SV-14
SV-15
SV-16
SV-17
SV-18
AEI-1
AEI-2
AEI-3
AEI-4
AEI-5
AEI-6
AEI-7
AEI-8
AEI-9
AEI-10
AEI-11
AEI-12
AEI-13
AEI-14
AEI-15
AEI-16
AEI-17
AEI-18
AEI-19
AEI-20
AEI-21
AEI-22
AEI-23
AEI-24
AEI-25
AEI-26
AEI-27
AEI-28
Former Used Oil UST (500-gallon)
Former Gasoline USTs (10k and 4k)
Parcel A Tank Hold
Parcel A Former Dispensers
Former USTs Removed 2013 (Area 2)
TILDEN WAY
FOLEY ST
N
W
E
S
0
15
30
Scale: 1" = 30'
LEGEND
Existing / Destroyed Remediation Well
AEI Soil Boring (1/12)
Existing / Destroyed Vapor Probe
AEI Soil Boring (7/11)
Soil Boring (2008)
Soil Boring (Pre-1997)
Existing / Destroyed Monitoring Well
Proposed Building Extents
Former Hydraulic Lift
Former Hydraulic Lift w/ Excavation
Parcel A
Parcel B
2013 Excavation
DRAFTED BY JAS 3-2-12
REVISED BY JAS 4-11-14
AEI CONSULTANTS
2500 CAMINO DIABLO, WALNUT CREEK
PROPOSED BUILDINGS PLAN
1600-1630 PARK STREET
ALAMEDA, CALIFORNIA
FIGURE 2
PROJECT NO. 298931