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Alameda County
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September 7, 2012

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

Subject: Perjury Statement and Report Transmittal

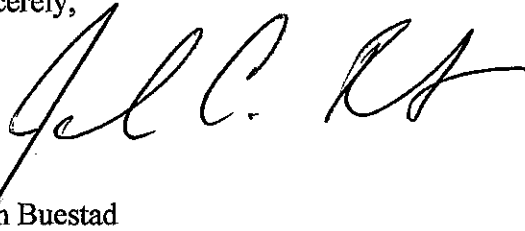
1600 – 1630 Park Street
Alameda, California 94501
AEI Project No. 298931
ACEH RO#0000008

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, *Data Gap Investigation and Interim Source Removal Workplan Addendum (September 7, 2012)*

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



AEI Consultants

Environmental & Engineering Services

September 7, 2012

REVISED DATA GAP INVESTIGATION and INTERIM SOURCE REMOVAL WORKPLAN ADDENDUM

Property Identification:

1630 Park Street
Alameda, California

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

Prepared for:

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

Prepared by:

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September 7, 2012

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

**Subject: Revised Data Gap Investigation and
Interim Source Removal Workplan Addendum**
1630 Park Street
Alameda, California
AEI Project No. 298931
ACEHD Fuel Leak Case No. RO0000008

Dear Ms. Detterman:

AEI Consultants (AEI) has prepared this Revised Addendum to the Data Gap Investigation and Interim Source Removal Workplan on behalf of Foley Street Investments (FSI), developer of the subject site (See Figure 1 and Figure 2). The subject of this Revised Addendum is the leaking underground storage tank (LUST) case located at the property 1630 Park Street, known as the Good Chevrolet site. The Alameda County Environmental Health Department (ACEHD) is the agency with regulatory oversight of the LUST case. This Addendum addresses comments to the original Data Gap Investigation and Interim Source Removal Workplan (AEI, May 4, 2012) which were provided by the ACEHD in correspondence dated July 20, July 31, and August 24, 2012.

The original Workplan Addendum included the following key items:

1. Excavation Target Soil Concentrations (ACEH July 20 letter, Technical Comment 4);
2. Additional Former Tank Pit and Lift Excavation Confirmation Sampling (ACEH July 20 letter, Technical Comment 5);
3. Revised Soil Vapor Sampling Plan (ACEH July 20 letter, Technical Comment 6);
4. Discussion of Additional Remedial Efforts (ACEH July 20 letter, Technical Comment 7);
5. Revised Groundwater Monitoring Schedule (ACEH July 20 letter, Technical Comment 8);
6. Preliminary Site Conceptual Model (ACEH July 20 letter, Technical Comment 10).

This Revised Workplan Addendum includes the following additions and clarifications of information already presented to address comments in ACEH's August 24 letter, Technical Comment 2, and in a telephone conversation with Ms. Karel Detterman on August 24, 2012:

1. Correction of typographic error for target soil concentration for total xylenes (Section 1.0);
2. Justification of the tank pit excavation within the context of the initial Site Conceptual Model (SCM) and the proposed remediation goals (Section 1.0);
3. Clarification of excavation target soil concentrations as presented Sections 5.2.1 and 5.2.3 in the May 2, 2012 Data Gap Workplan (Section 1.0);
4. Data gap evaluation of former waste-oil UST within the context of the initial SCM and the proposed remediation goals (Section 6.7.1);
5. Justification of the proposed remediation goals with respect to the former waste-oil UST in context with the initial SCM(Section 6.7.1);
6. Clarification of the Rate of collection of confirmatory tank pit excavation floor samples (Section 2.0)
7. Site Conceptual Model presented in tabular form.
8. Data Gaps and Proposed Investigations presented in tabular form.

1.0 Excavation Target Soil Concentrations and Rationale

Section 5.2.1 of the May 4, 2012, Workplan proposed excavation bottom target soil concentrations based on Table B of the San Francisco Bay Regional Water Quality Control Board, California EPA, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*. These targets are based on the screening levels in the document for shallow soil at commercial sites overlying a non-drinking water aquifer. Based on the request from the ACEH, the excavation bottom target soil concentrations have been modified using Table A of the guidance document which are based on sites overlying a drinking water aquifer.

The revised cleanup targets for the excavation bottom samples are summarized below:

<u>Constituent</u>	<u>Target Soil Concentration*</u>
<i>TPH-g</i>	<i>83 mg/kg</i>
<i>TPH-d</i>	<i>83 mg/kg</i>
<i>TPH-mo</i>	<i>2,500 mg/kg</i>
<i>Benzene</i>	<i>0.044 mg/kg</i>
<i>Toluene</i>	<i>2.9 mg/kg</i>
<i>Ethylbenzene</i>	<i>3.3 mg/kg</i>
<i>Total Xylenes</i>	<i>2.3 mg/kg</i>

*Based Table A of the RWQCB 2008 ESL Guidance Document.

The rationale for the excavation of the former UST pit is to remove the volume of impacted soil present around and within the pit which remained, due, at least in part, to the plastic lining within the excavation that may have reduced the effectiveness of recent vacuum extraction activities. The presence of this soil was witnessed by AEI, FSI, and ACEH during the exploratory trench conducted across the former excavation in June 2012. Although verification of soil conditions relating to the possible occurrence of a release from the former waste-oil tank will be performed, the driver for re-excavation of this location is not specifically the waste-oil UST. As discussed below (Sec 6.7.1), although data is limited, soil sample results at the time of removal of the waste-oil did not indicate a significant oil range hydrocarbon release.

As described in the original Data Gap Workplan, the proposed excavations are not planned to extend beyond the target areas or to "chase" impacts laterally if such impacts are found at the planned lateral extents of the excavations. Efforts will be made to remove the impacted soil vertically within the proposed excavations to reach the Target Soil Concentrations at the base of the excavated areas. The anticipated excavation depths of 15 feet for the UST pit excavation and 12 feet for the hydraulic lift excavations are based on soil sample analytical data from samples collected from borings installed near the proposed excavations. Tables 3 through 5 present a summary of the soil sample analytical data for samples collected from these borings and from all soil borings across the site. Figures 2 through 4 present cross-sections through the proposed UST pit and in close alignment with the hydraulic lift areas. Soil analytical results posted at the appropriate depths in the cross-sections suggest that the vertical extent of TPH-g is less than approximately 14 feet bgs, although 1 to 2 feet of variability should be expected. Soil sample analytical data in Tables 3 through 5 confirm that this is the case across the site and also suggests that the vertical extent of TPH-mo impacts is less than approximately 12 feet bgs.

It is expected that within the excavations, all soil that contains impacts above the stated Target Soil Concentrations will be removed at the bottoms of the excavation. This is supported by the data referenced above and the Site Conceptual Model (SCM). However, if impacts are still present at the proposed depths, as determined in the field through PID screening of soil samples and visual observation, additional soil may be excavated as feasible based on the excavation equipment limits, the geometry of the excavation, and safety and stability considerations.

As a contingency, if confirmation sampling shows that bottom or sidewall impacts remain, they will be addressed through other remedial measures such as monitored natural attenuation, in-situ treatment, or possibly continued HVDPE. This excavation removal action and the HVPDE performed within the last year are interim removal activities; a corrective action plan (CAP) has not been finalized for the site. Such contingency measures would be evaluated during the preparation of a CAP.

2.0 Former Tank Pit and Lift Excavation Confirmation Sampling

Section 5.2.5 of the original May 4, 2012, Workplan proposed confirmation sampling and analytical intervals at the rate of 2 sidewall and 1 bottom sample from each excavation at a minimum. Based on ACEH comments, the sampling plan has been modified to include

collection of soil samples from each excavation sidewall and from the excavation floors at the rate of 1 sample per every 20 linear feet of wall and excavation bottom. In addition, the samples will be positively biased towards the worse-case indicators of contamination, as requested.

3.0 Soil Vapor Sampling Plan

Section 5.5 of the original May 4, 2012 Workplan describes the sampling and analytical methods for samples collected from existing and proposed soil vapor probes at the site. Based on ACEH comments, the methods for soil vapor samples collected during future sampling events will be modified to include:

- Laboratory analysis of soil vapor samples by EPA Method TO-15 for analysis of benzene, ethylbenzene, toluene and total xylenes (BTEX), naphthalene, and TVHC (C5-C-11).
- Laboratory analysis of samples by ASTM Method D 1946-90 for atmospheric gases (oxygen, methane, carbon dioxide and nitrogen).

The scope of these analyses will be performed on the original three vapor monitoring points (VP-1 to VP-3) and those proposed to be installed. The location of replacement vapor monitoring points will be proposed in a workplan to ACEH once the building footprint details have been finalized.

4.0 Additional Remedial Efforts

Section 5.2.7 of the original May 4, 2012, Workplan describes the addition of an oxygen-release compound to former tank pit and lift excavations backfill material. ACEH has recommended against adding the compound on the basis that since the chosen corrective action at the site is high vacuum dual phase extraction (HVDPE), any benefit gained by the addition of the compound would be negated during HVDPE activities.

AEI respectfully disagrees with the recommendation on the basis that the proposed compound is designed to release oxygen slowly and continuously for up to 12-months. We agree that operation of the HVDPE system immediately following oxygen release compound placement would negate some of the benefit of the oxygen-release compound, however; since the anticipated operation of the HVDPE system (if needed at all) would be of limited duration and would not likely occur until deemed necessary by several episodes of quarterly groundwater monitoring, the long term benefits of the addition of the compound would still be realized in the interim. Further, the modest cost associated with adding the compound during the backfilling of the proposed excavations compared with the potential long-term benefit by further accelerating the time to closure, and reducing the likelihood of significantly more aggressive and expensive additional HVDPE, makes the proposed action very appealing.

5.0 Groundwater Monitoring Schedule

Section 5.3 of the original May 4, 2012, Workplan describes the groundwater monitoring program for the site including a schedule of planned sampling dates. The schedule included one year of post-corrective action monitoring. ACEH has requested that the schedule be extended to include up to 2 years of post-corrective action monitoring. In accordance with current regulations, a minimum of one year of monitoring is anticipated. Additional monitoring needs will be reviewed with ACEH during and after the first year. The Revised Groundwater Monitoring Schedule is included as Attachment C.

6.0 Initial Site Conceptual Model

The following section presents an updated preliminary Site Conceptual Model (SCM) of the release occurrence, including a discussion of the physical setting of the site, distribution of contaminants of concern (COCs), potential exposure pathways, and data gaps that may exist in the understanding of the release. The key elements of the SCM are summarized in tabular form in Attachment A.

6.1 Geologic Setting and Hydrology

The site is located on Alameda Island along the eastern margin of San Francisco Bay. 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. The nearest surface water body is the tidal canal located approximately 1500 to 2000 feet to the northeast.

Based upon recent drilling of soil borings conducted by AEI in 2011 and 2012, groundwater is first observed in borings at depths of approximately 9 to 11 feet bgs and stabilizes at depths between approximately 7.5 to 8.5 feet bgs. The depth to water in the groundwater monitoring wells has generally ranged from approximately 7.5 to 9.5 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 1×10^{-2} to 2×10^{-2} ft/ft and exists as an unconfined aquifer. Based on the logs of soil borings drilled at the site, sediments across the site are fairly consistent; consisting primarily of poorly graded fine to medium sand with varying clay and silt content. Refer to Figures 3 and 4 for fence diagrams, based on logs of borings at the site, which depict the sediments across the release area.

Groundwater monitoring well construction details for the wells at the site are summarized in Table 1 and a comprehensive summary of depth to water groundwater measurements is included in Table 2. The most recent groundwater surface contour map, including a rose diagram depicting the historic groundwater flow direction and other pertinent site features, is included as Figure 6. Soil boring and well construction logs are included in Attachment D.

6.2 Release Occurrence

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. The timing, duration and volume of the oil release are unknown.

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 although the former waste oil UST may have contributed to the heavier range petroleum detected as well. Again, the timing, duration and volume of the oil release are unknown.

6.3 Contaminants of Concern

The primary contaminants of concern at the site consist of gasoline range hydrocarbons and oil range hydrocarbons released in the northeastern area of the existing building. The following exhibit presents a summary of the maximum concentrations of the more significant contaminants of concern in soil and groundwater.

Contaminant	Maximum Concentration in Soil			Maximum Concentration in Groundwater		
	mg/kg	Date	Sample ID	µg/l	Date	Sample ID
TPH-g	15,000	10/15/93	EB2-2S	200,000	7/25/11	AEI-4-W
Benzene	84	10/15/93	EB2-2S	21,000	7/25/11	AEI-4-W
Toluene	710	10/15/93	EB2-2S	30,000	7/25/11	AEI-4-W
Ethyl benzene	260	10/15/93	EB2-2S	4,300	5/1/08	GP8W
Xylenes	1400	10/15/93	EB2-2S	21,000	5/1/08	GP8W
MTBE	9.3	1/21/97	EB10-S1	110	1/21/97	EB12-WS1
TPH-d	10,000	7/25/11	AEI-6-7'	120,000	7/25/11	AEI-6-W
TPH-mo	24,000	7/25/11	AEI-6-7'	300,000	7/25/11	AEI-6-W
Lead	140	1/17/12	AEI-27-3	<0.5	na	na

6.4 Soil Contamination

Gasoline impacted soil appears to be centered on the former UST and extends laterally in each direction, primarily to the north-northwest toward Park Street. 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. The lateral extent of gasoline impacted soil is reasonably well defined in each direction (Figure 6). Tables 3 to 5 present a summary of soil sample analytical results.

Oil impacted soil was identified adjacent to several former lifts in the northeastern corner of the existing building. While the lateral extent of oil impacted soil has not been fully defined it is expected to be limited based on the typically low volumes released from such lifts.

The vertical extent of impacted soil has been generally well defined by past investigations. 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 depict the approximate extent of vertical impacts. The zone of impact appears to be 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.

6.5 Groundwater Contamination

The dissolved phase plume is also centered on the former UST hold and spreads generally in a northwesterly direction. The extent of the 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). Groundwater impacts are also well defined to the northwest as demonstrated by analysis of groundwater samples collected in May 2012, from monitoring wells MW-4 and MW-5 (Table 9).

Grab groundwater samples collected from temporary borings AEI-21, AEI-22 and AEI-23 in January 2012, suggest that the extent of impacts are not completely defined west and southwest of the former UST locations. Additionally, although recent data from monitoring well MW-1 show low concentrations of gasoline range hydrocarbons (Table 9), historic grab groundwater samples collected in April 2008, from GP-1, GP-4, GP-5 and from EB-5 in October 1993, suggest that the significant hydrocarbons in groundwater may exist to the north and northeast of the former UST tank pit.

Based on the above, it appears that the extent of hydrocarbon impacts in groundwater is not defined to the west/southwest or to the north/northeast. These data gaps are addressed in the May 4, 2012, Data Gap Investigation and Interim Source Removal Workplan.

The data show the leading edge of the plume extending under Park Street, but diminishing beyond wells MW-4 and MW-5 (Figure 5, 5a and 5b). It should be noted that the majority of the groundwater data are from "grab" groundwater samples collected from temporary soil borings, which tend to be biased high relative to true dissolved phase concentration data that would be expected from monitoring wells. Nevertheless the data suggest that soil with petroleum concentrations near saturation levels and the presence of free phase product in and around the release area existed prior to the recent implementation of interim remedial actions. The remedial actions to date were focused on the core of the soil and groundwater plumes and have removed approximately 18,134 pounds of hydrocarbons from the soil and 390,460 gallons of contaminated groundwater. This reduction of contaminant mass in conjunction with the proposed 'hot spot' excavations will reduce the contaminant loading to groundwater beneath the site. Based on groundwater monitoring data, concentrations were reduced after the remedial actions and have generally decreased over the last 10 years. Tables 6 through 9 present a summary of the groundwater analytical data for the site.

6.6 Receptors and Exposure Pathways

Human and environmental exposure pathways refer to the routes by which environmental receptors can be exposed to contaminants. Human receptors include onsite occupants of a

property and offsite persons who could be exposed to impacted soils, soil vapor, or groundwater. Environmental receptors include resources such as surface waters or groundwater and the flora and fauna in the area surrounding the site.

Soil exposure pathways include direct contact with impacted soil and leaching of contaminants from soil into groundwater. Recent dual phase extraction activities were intended to remove the highest concentrations of contaminants in soil at the core of the plume. Additional interim remedial action is planned to excavate remaining 'hot spots' at the site, including the removal of soil contained in the former UST pit and beneath the former hydraulic lifts. Once these activities are complete, the soil exposure pathway is expected to be eliminated or reduced to levels that will naturally degrade over time.

Groundwater exposure pathways to humans include direct contact and ingestion of impacted water. Groundwater exposure pathways to environmental receptors include discharge to surface waters. Given the apparent extent of the dissolved phase plume and distance to the nearest surface waters, impact to surface water is not considered a complete pathway. Given the depth to water of over 7 feet bgs the exposure from direct contact with groundwater is not considered to be complete with the possible exception of water wells in the vicinity of the site. A water well survey was conducted in 2012 (AEI, March 30, 2012) which concluded that no water wells exist within 2000 feet of the site that could be impacted by the site groundwater. In addition, a preferential pathway study was conducted in 2012 to determine if underground utility corridors could influence the flow of groundwater in the vicinity of the site (AEI, March 30, 2012). The study found that utilities that lie within the expected extents of the groundwater plume are buried at depths that would not encounter groundwater with the exception of one sanitary sewer line located near the center of Park Street. Groundwater monitoring data from wells MW-4 and MW-5, located between the utility line and the site, however, suggest that the groundwater plume diminishes before this potential pathway is encountered (Figure 5). Based on the above, the groundwater exposure pathway is not considered complete. However, despite the lack of documented use or realistic future use of the shallow groundwater beneath the site, per the aquifer designation in the Basin Plan, ACEH has requested that the aquifer be considered of potential drinking water use for the purpose of remedial planning.

The vapor inhalation (vapor intrusion) exposure pathway for humans is potentially complete where volatile contaminants are present in shallow soils beneath an occupied structure. Recent testing of soil vapor samples, however, showed that no detectable concentrations of contaminants were present in shallow soil vapor. Soil vapor samples were collected from dedicated sampling points installed to a depth of 5 feet bgs near the UST hold and within the core of the groundwater plume. The soil vapor data are summarized in Table 10. Quarterly soil vapor sampling of existing and proposed sampling points has been proposed in the May 4, 2012, Workplan. Mitigation measures will be addressed based on the results of the sampling and, if needed, will be incorporated into the design of the new buildings at the site.

Due to the urbanized nature of the area, exposure to flora and fauna is not relevant and therefore not evaluated.

6.7 Data Gaps

Data gaps are identified based on prior assessments where information is needed to better understand the nature of a release, its fate and transport, or its possible impacts. This addendum addresses comments from the ACEH to the May 4, 2012, Data Gap Investigation and Interim Source Removal Workplan, which was prepared to specifically address the current data gaps. The May 4, 2012, Workplan includes a thorough analysis of the current data gaps at the site and presents a scope of work to attempt fill them. The key elements of the Data Gap analysis presented in the May 4, 2012 workplan and through the subsequent SCM analyses are summarized below and in Attachment B. Additional discussion of the former waste-oil UST is presented in Sec. 6.7.1 below.

- The extent of hydrocarbon impacts in groundwater is not defined to the west/southwest, or to the north/northeast; stability of plume following interim remedial action needs to be assessed (Item 2 Attachment B).
 - Install additional groundwater monitoring wells
 - Initial quarterly groundwater monitoring program (commenced)
- Unknown condition of former UST pit fill material and possibility of plastic sheeting which could inhibit remedial efforts.
 - Excavate test-pit to determine backfill condition. (Completed, removed for data gaps summary table)
- Soil vapor conditions unknown to assess the potential for vapor intrusion (Item 3 Attachment B).
 - Initiate soil vapor investigation and periodic monitoring program. (Commenced)
- Human health threats to potential receptors (Item 4 Attachment B).
 - Identify receptors and pathways (Commenced)
 - Perform assessment of risks (pending completion of removal action and data gaps investigation)

6.7.1 Former Waste Oil UST

An additional data gap identified by the ACEH in the July 31, 2012, directive letter is the former waste oil tank that was located adjacent to the former gasoline UST (Item 1 Attachment B). 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.

In July 2011 and January 2012, AEI analyzed soil samples for TPH-mo in samples collected from 22 soil borings (see Table 3). Concentrations of TPH-mo up to a maximum of 24,000 mg/kg were reported in the samples; however, the only samples which exceeded the proposed Target Soil Concentration of 2500 mg/kg were collected from borings directly adjacent to the hydraulic

lifts. Soil samples collected at locations that are not adjacent to the lifts contained low to non-detectable levels. As an example, a soil sample collected at a depth of 8 to 8.5 feet bgs in the boring for DPE-3, located in undisturbed soil less than 5 feet from the UST pit, contained 58 mg/kg TPH-mo.

TPH-mo was also analyzed in grab groundwater samples from these borings (See Table 6). Similar to the soil samples, the majority of grab groundwater samples with elevated TPH-mo were collected near the hydraulic lifts. It should be noted that grab groundwater samples typically contain higher concentrations of a contaminant due to the presence of soil particles in the water. A groundwater sample collected from properly constructed groundwater monitoring well would be expected to have much lower concentrations of TPH-mo than a grab sample collected from the same location. 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).

It is expected that the majority of TPH-mo range hydrocarbons in soil will be removed during the proposed excavations around the former lifts. As noted in Sec. 1.0, the rationale for the proposed excavation is the removal of source mass at the former UST pit and around the former lift; however, the data gap relating to the possibility of a significant release from the waste-oil UST will be assessed through sample collection during the excavation of the former UST pit. Excavation confirmation samples will be analyzed to determine any remaining concentrations of TPH-mo post-excavation. The extent of TPH-mo in groundwater appears minimal as referenced above however will be further determined during the future groundwater monitoring events, as TPH-mo has been added to the analytical suite for all groundwater samples.

7.0 References

- Alameda County Environmental Health Department (ACEHD), November 4, 2011. *Request for Pilot Test Workplan*
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- ACEHD, April 16, 2012. *Corrective Action Plan*
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- ACEHD, July 31, 2012. *Directive letter regarding Meeting Follow-up and Revised Technical Report Schedule.*
- AEI Consultants (AEI), August 16, 2011. *Phase II Subsurface Investigation, 1600 to 1630 Park Street, Alameda, California*
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- GeoPlexus Incorporated, April 30, 1997. *Phase II Remedial Investigation Report, Good Chevrolet 1630 Park Street, Alameda, CA*
- GeoPlexus Incorporated, December 18, 1998. *Preliminary Remedial Risk Assessment for Good Chevrolet 1630 Park Street, Alameda, CA*
- Groundwater Technology, Inc. April 29, 1987. *Report Subsurface investigation Good Chevrolet 1630 Park Street, Alameda, CA*
- Helley, E.J. and R.W. Graymer, 1997. *Quaternary Geology of Alameda County and Surrounding Areas, California: Derived from the Digital Database Open-File 97-97, 1997*
- Norfleet Consultants, 1998. *Groundwater Study and Water Supply History of the East Bay Plain, Alameda and Contra Costa Counties, California*. Prepared for the Friends of the San Francisco Estuary, P.O. Box 791, Oakland, California, and dated June 15, 1998.

8.0 Report Limitations


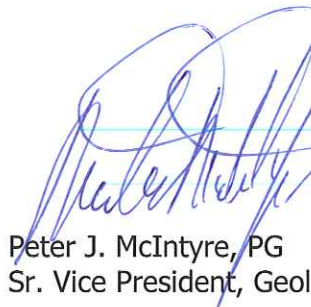
This report has been prepared by AEI Consultants relating to the property located at 1630 Park Street, in the City of Alameda, Alameda County, California. This report includes a summary of site conditions and relies heavily on information obtained from public records and other resources; AEI makes no warrantee that the information summarized in this report includes consideration of all possible resources or information available for the site, whether referenced on not. Material samples have been collected and analyzed, and where appropriate conclusions drawn and recommendations made based on these analyses and other observations. This report may not reflect subsurface variations that may exist between sampling points. These variations cannot be fully anticipated, nor could they be entirely accounted for, in spite of exhaustive additional testing. This document should not be regarded as a guarantee that no further contamination, beyond that which could have been detected within the scope of past investigations is present beneath the property or that all contamination present at the site will be identified, treated, or removed. Undocumented, unauthorized releases of hazardous material(s) and petroleum products, the remains of which are not readily identifiable by visual inspection and/or are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation and may or may not become apparent at a later time. This document contains estimates of costs for various activities that could be implemented at the site. These estimates are based on reasonably expected costs for similar activities; however, AEI provides no guarantee implicit or explicit that costs will not be significantly higher or lower than those estimated. All specified work has been performed in accordance with generally accepted practices in environmental engineering, geology, and hydrogeology and performed under the direction of appropriate California registered professionals.

We welcome comments and questions from ACEHD staff. Please contact us (925) 746-6000.

Sincerely,
AEI Consultants



Robert Robitaille
Sr. Project Manager

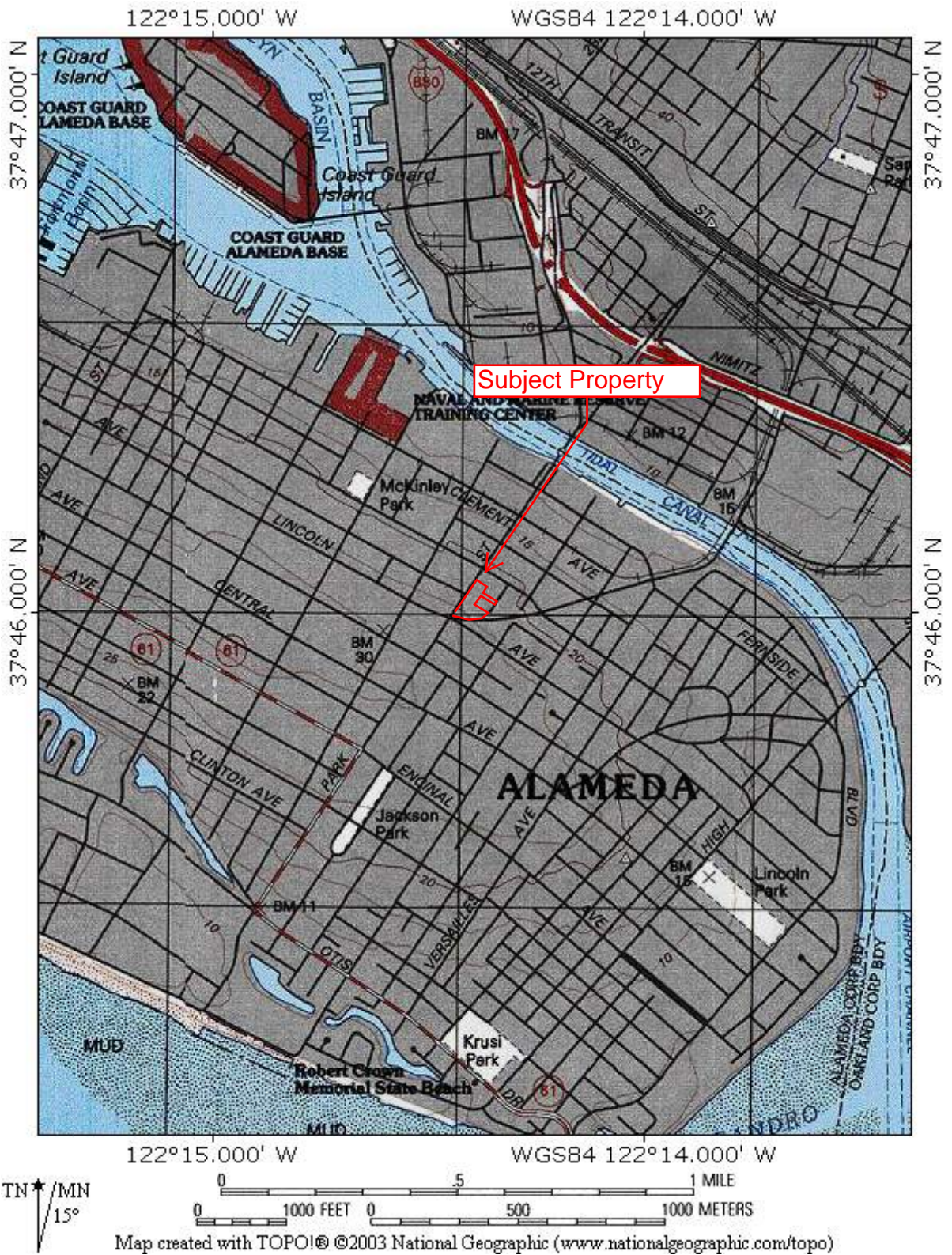


Peter J. McIntyre, PG
Sr. Vice President, Geologist

Distribution:

John Buestad, Foley Street Investments
Karel Detterman, Alameda County Environmental Health Department (FTP Upload)
GeoTracker (Upload)

FIGURES

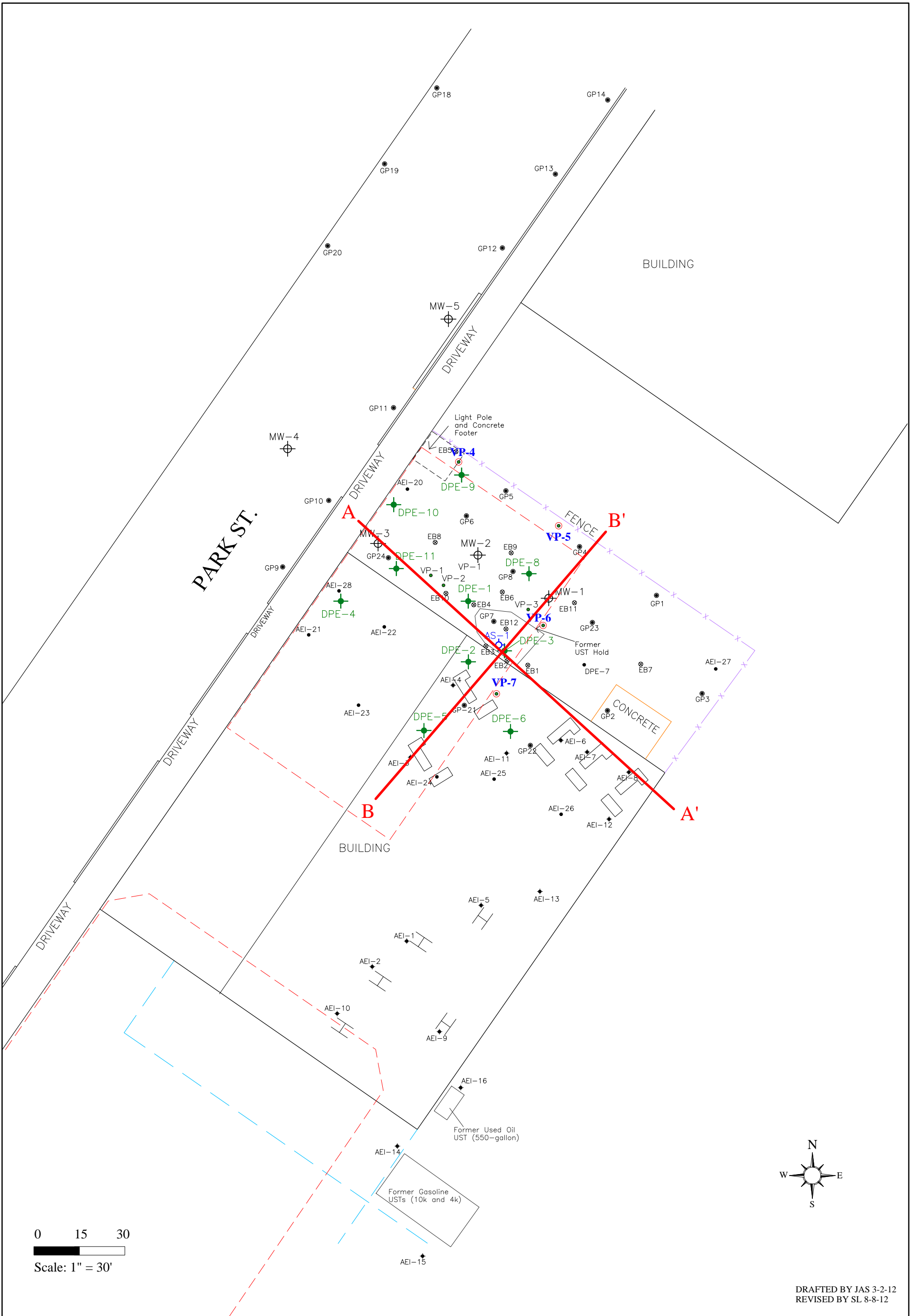


SITE LOCATION MAP

1600-1650 Park Street

Alameda, California 94501





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

LEGEND

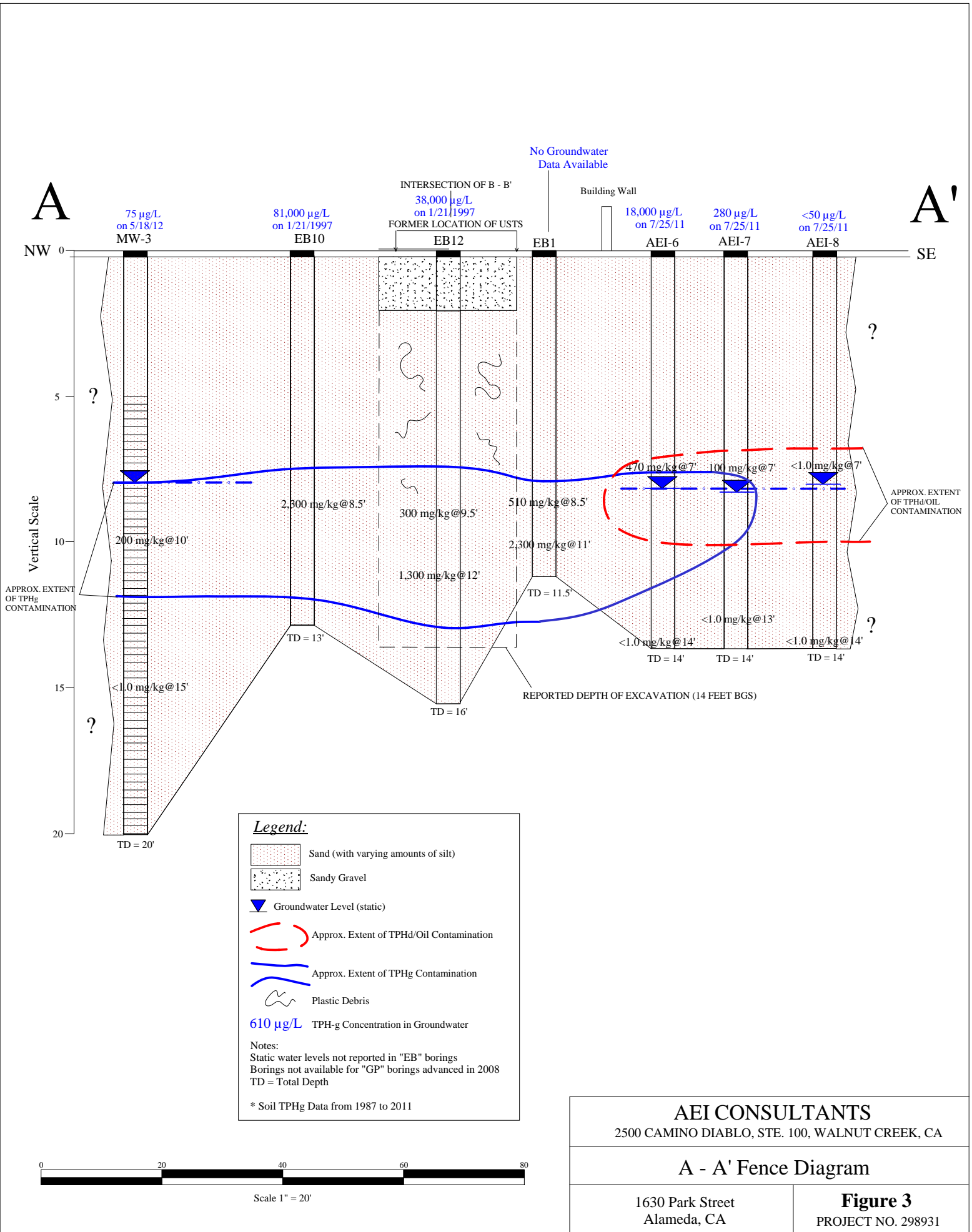
- | | | | | | |
|--|---------------------------|--|-----------------------------------|--|---------------------------|
| | Proposed Building Extents | | Groundwater Monitoring Well | | Air Sparge Well |
| | Existing Hydraulic Lift | | Remediation Well (12/11 and 1/12) | | A - A' Cross Section Line |
| | Former Hydraulic Lift | | AEI Soil Boring (1/12) | | |
| | | | Vapor Probe (12/11) | | |
| | | | AEI Soil Boring (7/11) | | |
| | | | Soil Boring (4/08) | | |
| | | | Soil Boring (1/97) | | |

AEI CONSULTANTS
 2500 CAMINO DIABLO, WALNUT CREEK

SITE PLAN

1630 PARK STREET
 ALAMEDA, CALIFORNIA

FIGURE 2
 PROJECT NO. 298931



A

A'

NW 0 SE

No Groundwater Data Available

INTERSECTION OF B - B'
38,000 µg/L on 1/21/1997
FORMER LOCATION OF USTS

Building Wall

75 µg/L on 5/18/12
MW-3

81,000 µg/L on 1/21/1997
EB10

EB12

EB1

18,000 µg/L on 7/25/11
AEI-6

280 µg/L on 7/25/11
AEI-7

<50 µg/L on 7/25/11
AEI-8

APPROX. EXTENT OF TPHg CONTAMINATION

APPROX. EXTENT OF TPHd/OIL CONTAMINATION

200 mg/kg@10'

2,300 mg/kg@8.5'

300 mg/kg@9.5'

510 mg/kg@8.5'

470 mg/kg@7'

100 mg/kg@7'

<1.0 mg/kg@7'

<1.0 mg/kg@15'

TD = 13'

TD = 16'

REPORTED DEPTH OF EXCAVATION (14 FEET BGS)

TD = 11.5'

<1.0 mg/kg@14'

<1.0 mg/kg@13'

<1.0 mg/kg@14'

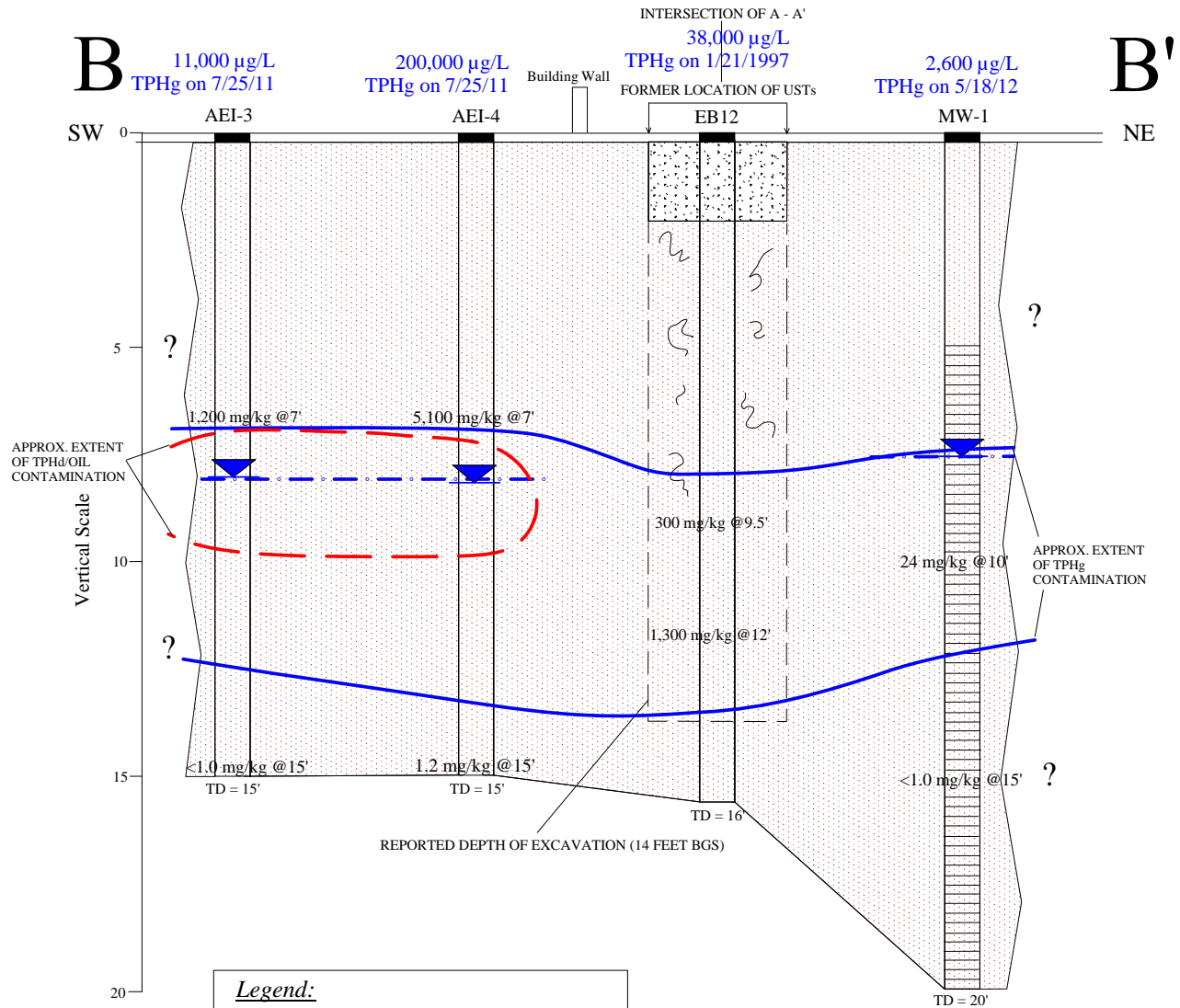
TD = 14'

TD = 14'

TD = 14'



Scale 1" = 20'

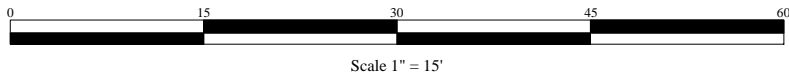


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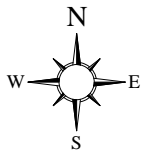
- Sand (with varying amounts of silt)
- Sandy Gravel
- Groundwater Level (static)
- Approx. Extent of TPHd/Oil Contamination
- Approx. Extent of TPHg Contamination
- Plastic Debris
- 610 µg/L TPH-g Concentration in Groundwater

Notes:
 Static water levels not reported in "EB" borings
 Borings not available for "GP" borings advanced in 2008
 TD = Total Depth

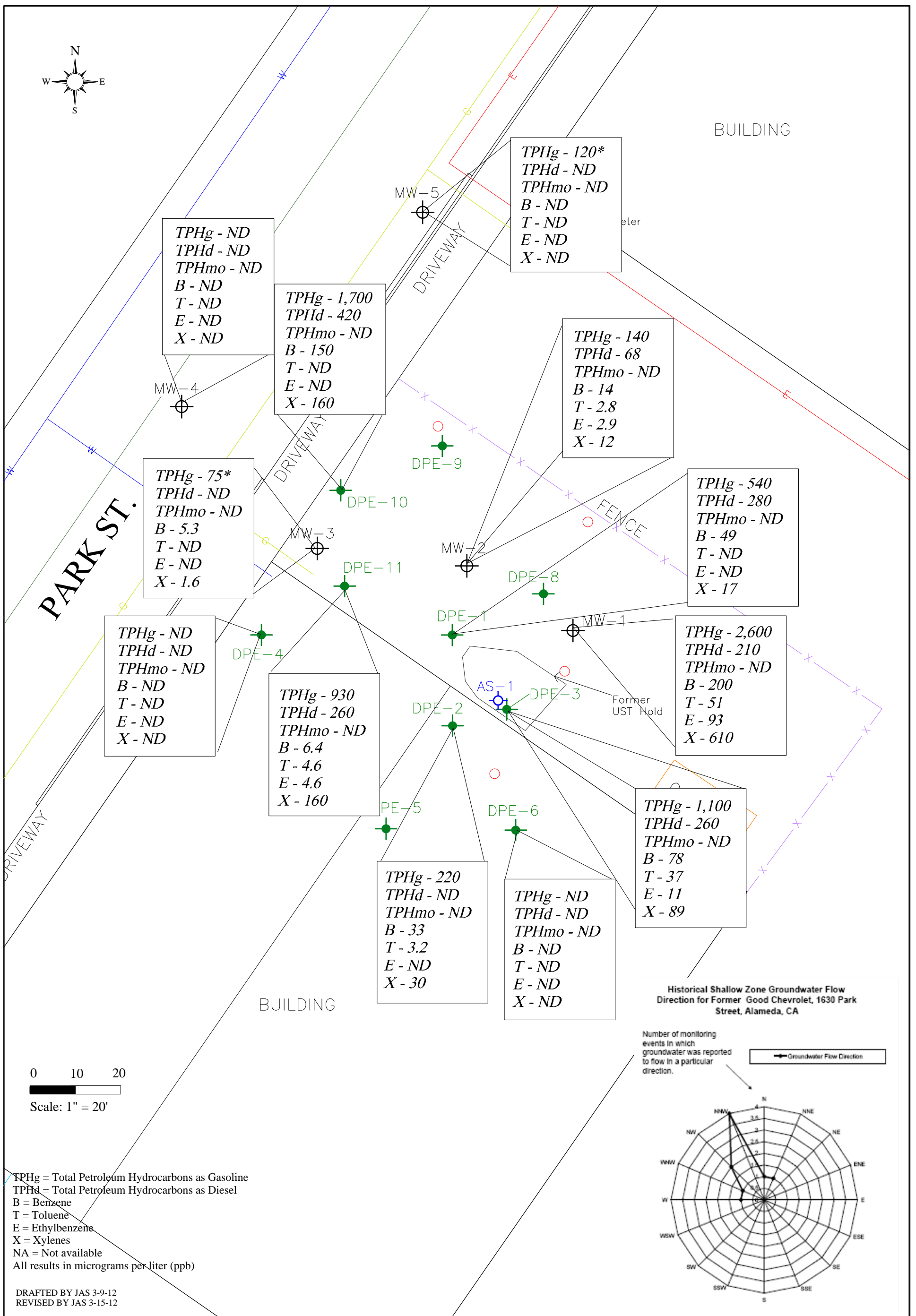
* Soil TPHg Data from 1987 to 2011



AEI CONSULTANTS 2500 CAMINO DIABLO, STE. 100, WALNUT CREEK, CA	
B - B' Fence Diagram	
1630 Park Street Alameda, CA	Figure 4 PROJECT NO. 298931



BUILDING



TPHg = Total Petroleum Hydrocarbons as Gasoline
 TPHd = Total Petroleum Hydrocarbons as Diesel
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 NA = Not available
 All results in micrograms per liter (ppb)

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

LEGEND

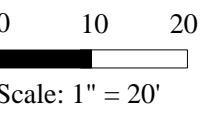
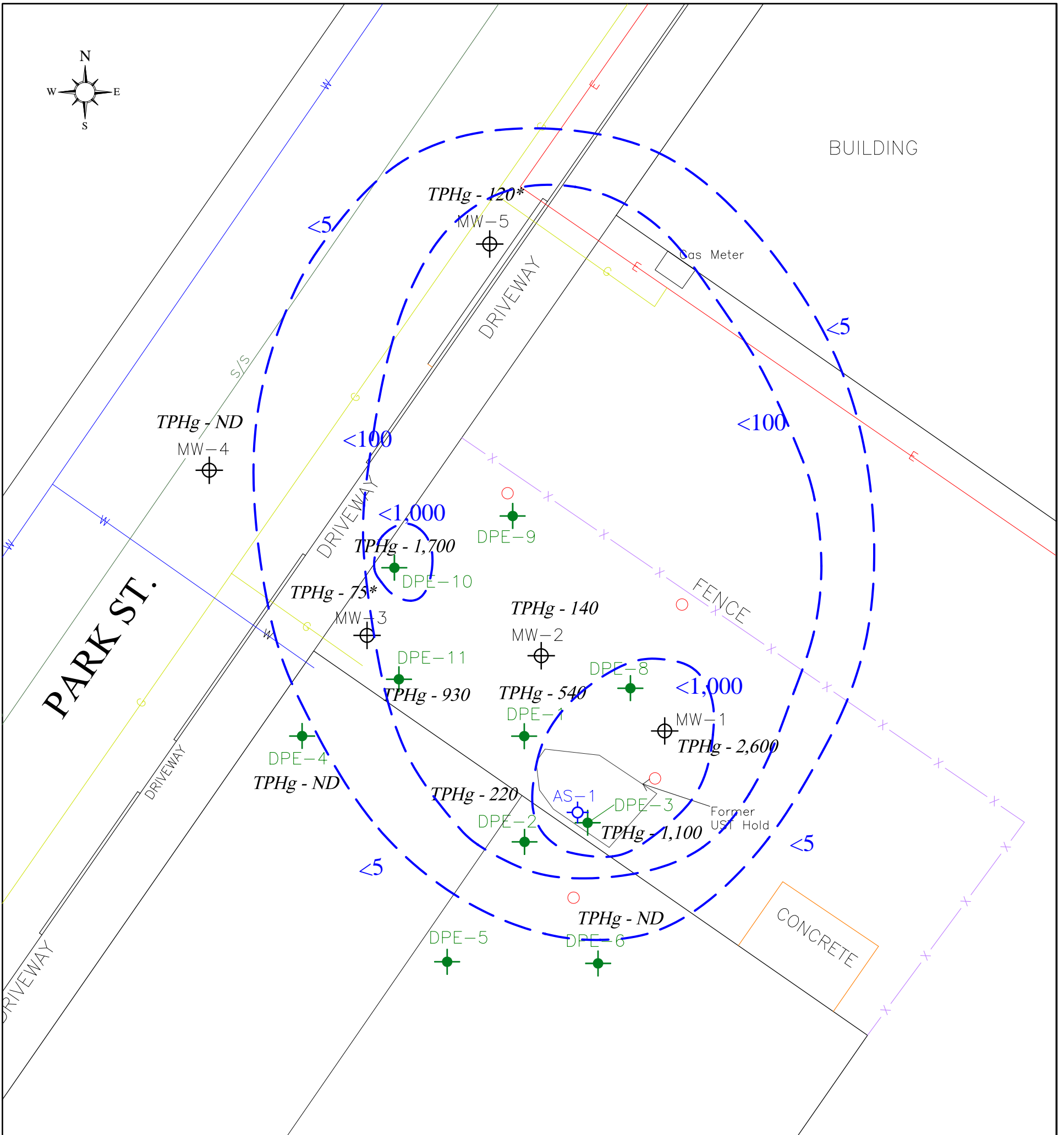
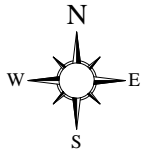
- Underground Natural Gas Line (3 to 4 feet bgs)
- Underground Water Line (3 feet bgs)
- Underground Electric Line (3 feet bgs)
- Underground Sanitary Sewer Line (10.3 to 11.3 feet bgs)
- Remediation (DPE) Well
- Groundwater Monitoring Well
- AEI Soil Boring
- Isolated non-target peaks identified in TPHg analysis

AEI CONSULTANTS
 2500 CAMINO DIABLO, WALNUT CREEK

GROUNDWATER ANALYTICAL DATA - MAY 2012

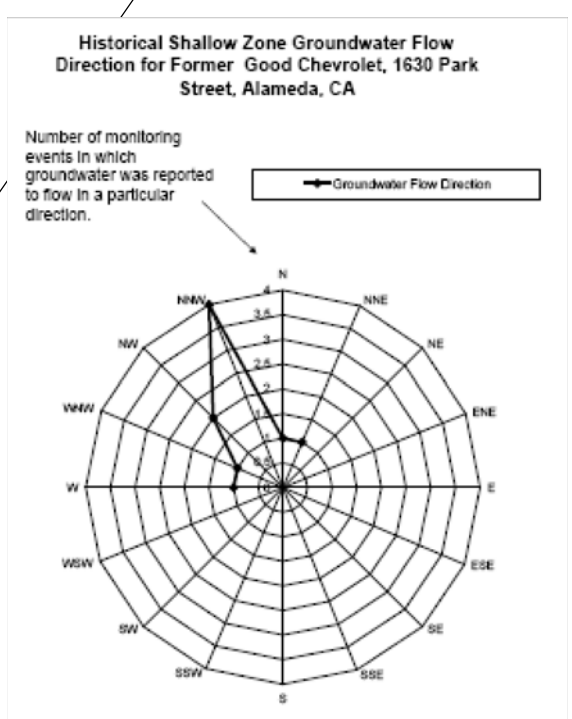
1630 PARK STREET
 ALAMEDA, CALIFORNIA

FIGURE 5
 PROJECT NO. 298931



TPHg = Total Petroleum Hydrocarbons as Gasoline
 TPHd = Total Petroleum Hydrocarbons as Diesel
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 NA = Not available
 All results in micrograms per liter (ppb)

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

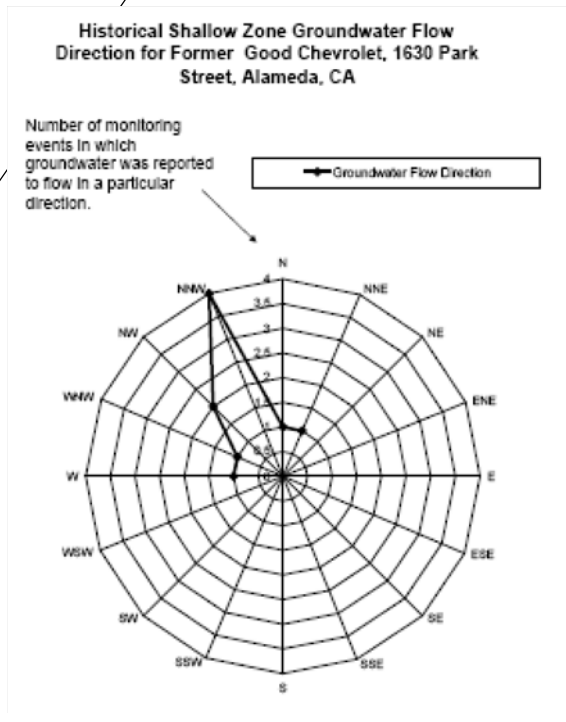
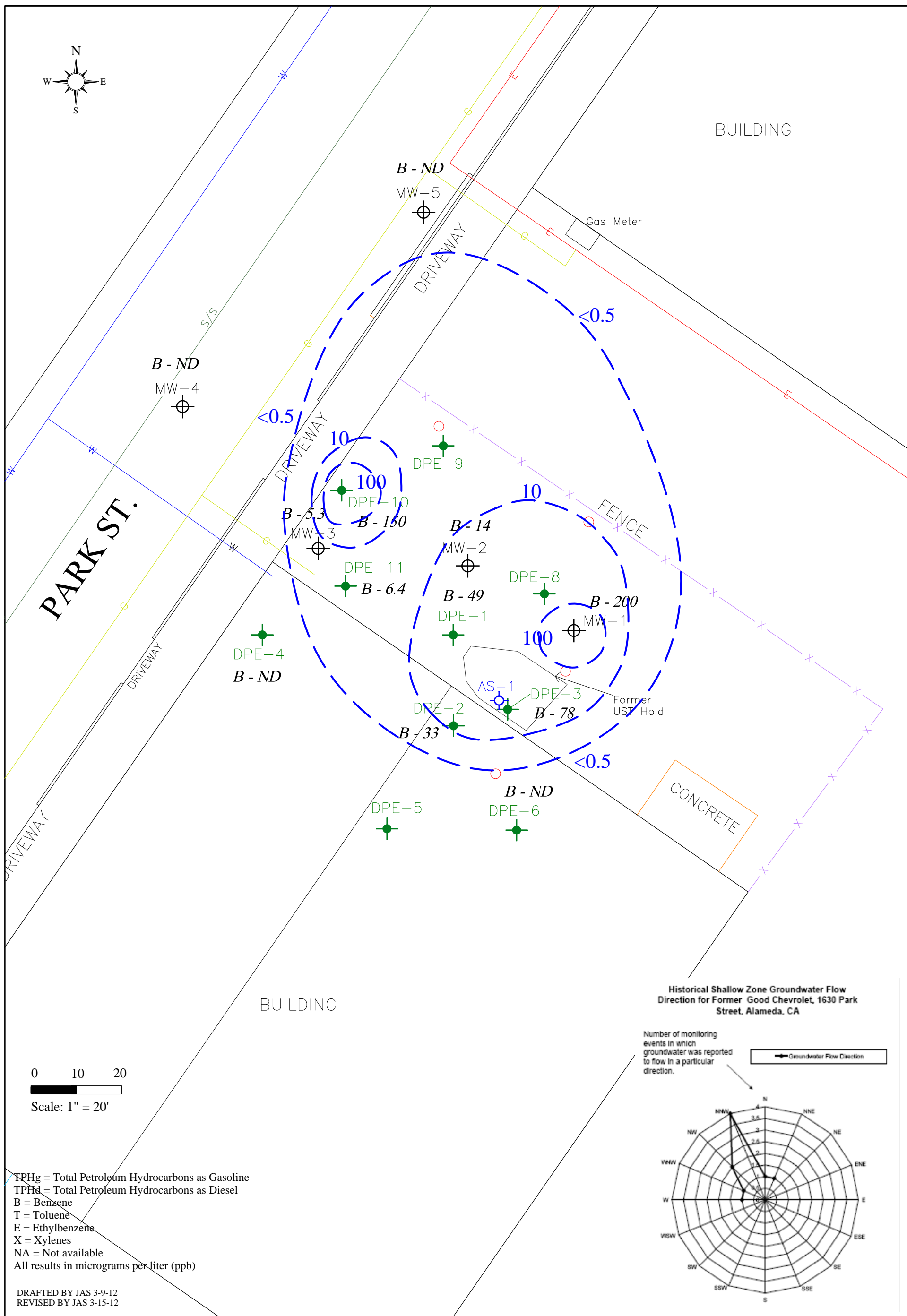
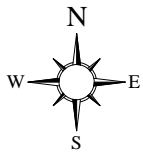


LEGEND	
	Underground Natural Gas Line (3 to 4 feet bgs)
	Underground Water Line (3 feet bgs)
	Underground Electric Line (3 feet bgs)
	Underground Sanitary Sewer Line (10.3 to 11.3 feet bgs)
*	Isolated non-target peaks identified in TPHg analysis
	Remediation (DPE) Well
	Groundwater Monitoring Well
	AEI Soil Boring

AEI CONSULTANTS
 2500 CAMINO DIABLO, WALNUT CREEK

TPH-g ISOPLETH (MAY 2012)

1630 PARK STREET ALAMEDA, CALIFORNIA	FIGURE 5A PROJECT NO. 298931
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TPHg = Total Petroleum Hydrocarbons as Gasoline
 TPHd = Total Petroleum Hydrocarbons as Diesel
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 NA = Not available
 All results in micrograms per liter (ppb)

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

LEGEND

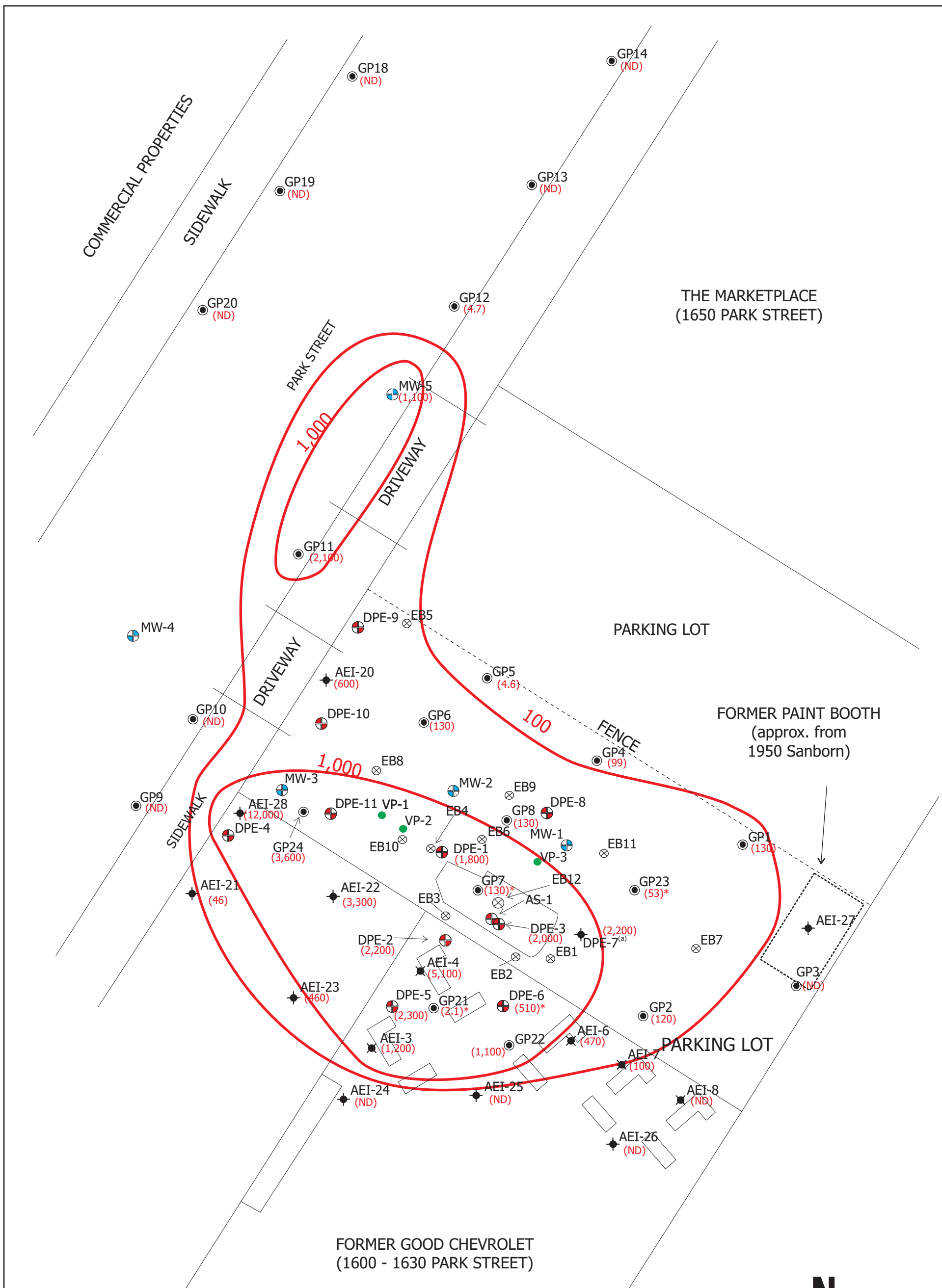
- Underground Natural Gas Line (3 to 4 feet bgs)
- Underground Water Line (3 feet bgs)
- Underground Electric Line (3 feet bgs)
- Underground Sanitary Sewer Line (10.3 to 11.3 feet bgs)
- Isolated non-target peaks identified in TPHg analysis
- Remediation (DPE) Well
- Groundwater Monitoring Well
- AEI Soil Boring

AEI CONSULTANTS
 2500 CAMINO DIABLO, WALNUT CREEK

BENZENE ISOPLETH (MAY 2012)


1630 PARK STREET
 ALAMEDA, CALIFORNIA

FIGURE 5B
 PROJECT NO. 298931




LEGEND	
REMEDIATION WELL (12/11 AND 1/12)	
AEI SOIL BORING (1/12)	
VAPOR PROBE (12/11)	
AEI SOIL BORING (7/11)	
SOIL BORING (4/08)	
SOIL BORING (1/97)	
GROUNDWATER MONITORING WELL	

TPH-G Total Petroleum Hydrocarbons
 Data from 2008 to 2012 shown
 Maximum concentrations in soil listed in milligrams per kilogram
 *Not used for contouring.
 BASE MAP MODIFIED FROM: BLYMYER ENGINEERS, INC
 (a) Proposed well completed as a boring.



0' 20'
 APPROX. SCALE: 1 in = ~20 ft

TPH-G IN SOIL	
1630 PARK STREET ALAMEDA, CALIFORNIA	
FIGURE 6	
JOB NO: 298931	

TABLES

Table 1
Well Construction Details
 AEI Project No. 298931, 1630 Park Street, Alameda, California

Well ID Number	Well Installation Date	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	-	PVC	25	25	8	2	20 - 25	0.02	20 - 25	#3 Sand
DPE-1	11/15/2011	25.88	PVC	16	15	10	4	7 - 15	0.01	6.5 - 16	#2/12 Sand
DPE-2	11/15/2011	26.22	PVC	16	15	10	4	7 - 15	0.01	6.5 - 16	#2/12 Sand
DPE-3	11/14/2011	25.27	PVC	16	14	10	4	7 - 14	0.01	6.5 - 16	#2/12 Sand
DPE-4	1/19/2012	26.06	PVC	17	17	10	4	8 - 17	0.01	7.5 - 17	#2/12 Sand
DPE-5	1/20/2012	26.25	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
DPE-6	1/20/2012	26.13	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
DPE-8	1/20/2012	25.36	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
DPE-9	1/20/2012	25.09	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
DPE-10	1/20/2012	25.14	PVC	17	17	10	4	8 - 17	0.01	7.5 - 17	#2/12 Sand
DPE-11	1/20/2012	25.57	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
MW-1	1/15/1987	25.37	PVC	-	20	8	2	5 - 20	-	-	-
MW-2	1/15/1987	25.48	PVC	-	20	8	2	5 - 20	-	-	-
MW-3	1/15/1987	25.13	PVC	-	20	8	2	5 - 20	-	-	-
MW-4	4/20/1994	25.58	PVC	-	23	8	2	8 - 23	-	-	-
MW-5	4/20/1994	24.31	PVC	-	22	8	2	7 - 22	-	-	-
VP-1	12/6/2011	-	Poly/SS	6	6	1.25	1/4	5.1 - 5.6	Mesh	4.7 - 6	#30 Mesh Sand
VP-2	12/6/2011	-	Poly/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	-	Poly/SS	5.75	5.75	1.25	1/4	5.1-5.6	Mesh	4.7-5.75	#30 Mesh Sand

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

Table 2
Groundwater Elevation Data
 AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Well ID (Screen Interval)	Date Collected	Well Elevation (ft amsl)	Depth to Water (ft)	Groundwater Elevation (ft amsl)
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	
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	

Table 2
Groundwater Elevation Data
 AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Well ID (Screen Interval)	Date Collected	Well Elevation (ft amsl)	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MW-2 (continued)	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
	MW-3 (5 - 20 feet bgs)	Jul-89	104.52	9.00
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	
MW-4 (8 - 23 feet bgs)	Apr-94	104.86	9.29	95.57
	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		-	-

Table 2
Groundwater Elevation Data
 AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Well ID (Screen Interval)	Date Collected	Well Elevation (ft amsl)	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MW-4 (continued)	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
MW-5 (7 - 22 feet bgs)	Apr-94	103.62	8.27	95.35
	Jul-94		8.50	95.12
	Oct-94		8.92	94.70
	Jan-94		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	24.31	7.46	16.86	
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
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
DPE-3 (7 - 15 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
DPE-4 (8-17 feet bgs)	Jan-12	26.06	9.11	16.95
	May-12	26.06	8.59	17.47
DPE-5 (8-18 feet bgs)	Jan-12	26.25	-	-
DPE-6 (8-18 feet bgs)	Jan-12	26.13	8.58	17.55
	May-12	26.13	7.43	18.70
DPE-8 (8-18 feet bgs)	Jan-12	25.36	-	-
DPE-9 (8-18 feet bgs)	Jan-12	25.09	8.12	16.97
DPE-10 (8-17 feet bgs)	Jan-12	25.14	-	-
	May-12	25.14	7.73	17.41
DPE-11 (8-18 feet bgs)	Jan-12	25.57	-	-
	May-12	25.57	7.90	17.67

ft amsl = feet above mean sea level

Table 2

Groundwater Elevation Data

AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Well ID (Screen Interval)	Date Collected	Well Elevation <i>(ft amsl)</i>	Depth to Water <i>(ft)</i>	Groundwater Elevation <i>(ft amsl)</i>
------------------------------	-------------------	---------------------------------------	----------------------------------	--

All water level depths are measured from the top of casing

"-" = not measured

bgs = below ground surface

Table 3
Soil Sample Analytical Data
TPH, MBTEX and POG
 AEI Project No. 298931, 1630 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) EPA Method SW8021B/8015B/m	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	POG (mg/kg) EPA Method SM5520E/F
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	<50	-	-	-	<0.5	<0.5	<0.5	<0.5	-
EB7-S3	10/15/1993	8.5	1,000	-	-	-	3.8	45	21	110	-
MW4-S1	4/20/1994	4.5	<50	-	-	-	<0.5	<0.5	<0.5	0.013	-
MW4-S2	4/20/1994	9	9.7	-	-	-	1.1	0.82	0.42	1.3	-
MW4-S3	4/20/1994	14	<50	-	-	-	<0.5	0.008	<0.5	0.022	-
MW5-S1	4/20/1994	4.5	<50	-	-	-	<0.5	<0.5	<0.5	<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	-

Table 3
Soil Sample Analytical Data
TPH, MBTEX and POG
 AEI Project No. 298931, 1630 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) EPA Method SW8021B/8015B/m	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	POG (mg/kg) EPA Method SM5520E/F
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	-
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	-

Table 3
Soil Sample Analytical Data
TPH, MBTEX and POG

AEI Project No. 298931, 1630 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) EPA Method SW8021B/8015B/m	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	POG (mg/kg) EPA Method SM5520E/F
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	-
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-10-8'	7/26/2011	8	<1.0	1.2	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	-

Table 3
Soil Sample Analytical Data
TPH, MBTEX and POG
 AEI Project No. 298931, 1630 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) EPA Method SW8021B/8015B/m	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	POG (mg/kg) EPA Method SM5520E/F
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-14-7'	7/26/2011	7	<1.0	-	-	<0.05	<0.005	<0.005	<0.005	<0.005	-
AEI-15-7'	7/26/2011	7	<1.0	-	-	<0.05	<0.005	<0.005	<0.005	<0.005	-
AEI-16-7'	7/26/2011	7	<1.0	1.4	<5.0	-	-	-	-	-	<50
AEI-17-8'	7/26/2011	8	<1.0	1.1	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	-
AEI-18-8'	7/26/2011	8	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	-
AEI-19-8'	7/26/2011	8	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	-
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	-
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	-

Table 3
Soil Sample Analytical Data
TPH, MBTEX and POG

AEI Project No. 298931, 1630 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) EPA Method SW8021B/8015B/m	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	POG (mg/kg) EPA Method SM5520E/F
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	-

mg/kg = milligrams per kilogram (equivalent to parts per million)
MDL = method detection limit POG = petroleum oil and grease
TPH = total petroleum hydrocarbons MTBE = methyl butyl tertiary ethyl
TPH-g = TPH as gasoline "<" = less than
TPH-d = TPH as diesel "*" = with silica gel cleanup
TPH-mo = TPH as motor oil "-" = not available

Table 4
Soil Sample Analytical Data
VOCs, Fuel Oxygenates, SVOCs, and PCBs
 AEI Project No. 298931, 1630 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	1,4-Dioxane (mg/kg) EPA Method SW8260	All target VOCs (mg/kg) EPA Method SW8260	Fuel Oxygenates^ (mg/kg) EPA Method SW8260B	All target SVOCs (mg/kg) EPA Method 8270	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
VOCs, Fuel Oxygenates, SVOCs, and PCBs
 AEI Project No. 298931, 1630 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	1,4-Dioxane (mg/kg) EPA Method SW8260	All target VOCs (mg/kg) EPA Method SW8260	Fuel Oxygenates^ (mg/kg) EPA Method SW8260B	All target SVOCs (mg/kg) EPA Method 8270	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
AEI-11-3'	7/26/2011	3	-	<MDL	-	-	-
AEI-12-3'	7/26/2011	3	-	<MDL	-	-	-
AEI-13-3'	7/26/2011	3	-	<MDL	-	-	-
AEI-14-7'	7/26/2011	7	-	-	<MDL	-	-
AEI-15-7'	7/26/2011	7	-	-	<MDL	-	-
AEI-16-7'	7/26/2011	7	<0.02	<MDL	<MDL	<MDL	<0.05
AEI-27-3'	1/17/2012	3	-	<MDL	-	-	-

mg/kg = milligrams per kilogram (equivalent to parts per million)

MDL = method detection limit

VOCs = volatile organic compounds

SVOCs = semi-volatile organic compounds

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, 1630 Park Street, Alameda, California

Sample ID	Date Collected	Approx. Depth (feet)	Cd mg/kg	Cr (total)* mg/kg	Pb mg/kg EPA Method SW6010B	Ni mg/kg	Zn mg/kg
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-14-7'	7/26/2011	7	-	-	<5.0	-	-
AEI-15-7'	7/26/2011	7	-	-	<5.0	-	-
AEI-16-7'	7/26/2011	7	<1.5	54	<5.0	48	27
AEI-17-8'	7/26/2011	8	-	-	<5.0	-	-
AEI-18-8'	7/26/2011	8	-	-	<5.0	-	-
AEI-19-8'	7/26/2011	8	-	-	<5.0	-	-
*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, MBTEX and TRPH

AEI Project No. 298931, 1630 Park Street, Alameda, California

Sample ID	Date Collected	TPH-g (µg/L)	TPH-d* (µg/L)	TPH-mo* (µg/L)	MTBE (µg/L) EPA Method SW8021B/8015Bm	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TRPH (µg/L) EPA Method E418.1
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	-

Table 6

**Groundwater Analytical Data - Grab Samples
TPH, MBTEX and TRPH**

AEI Project No. 298931, 1630 Park Street, Alameda, California

Sample ID	Date Collected	TPH-g (µg/L)	TPH-d* (µg/L)	TPH-mo* (µg/L)	MTBE (µg/L) EPA Method SW8021B/8015Bm	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TRPH (µg/L) EPA Method E418.1
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	-
AEI-1-W	7/25/2011	<50	<50	<250	-	-	-	-	-	-
AEI-2-W	7/25/2011	<50	<50	<250	-	-	-	-	-	-
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	-	-	-	-	-	-

Table 6

**Groundwater Analytical Data - Grab Samples
TPH, MBTEX and TRPH**

AEI Project No. 298931, 1630 Park Street, Alameda, California

Sample ID	Date Collected	TPH-g (µg/L)	TPH-d* (µg/L)	TPH-mo* (µg/L)	MTBE (µg/L) EPA Method SW8021B/8015Bm	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TRPH (µg/L) EPA Method E418.1
AEI-8-W	7/25/2011	<50	1,600	3,800	-	-	-	-	-	-
AEI-9-W	7/25/2011	<50	<50	<250	-	-	-	-	-	-
AEI-10-W	7/26/2011	<50	<50	400	-	-	-	-	-	-
AEI-14-W	7/26/2011	<50	-	-	<5.0	<0.5	<0.5	<0.5	<0.5	-
AEI-15-W	7/26/2011	<50	-	-	<5.0	<0.5	<0.5	<0.5	<0.5	-
AEI-16-W	7/26/2011	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
AEI-17-W	7/26/2011	<50	89	590	<5.0	<0.5	<0.5	<0.5	<0.5	-
AEI-18-W	7/26/2011	<50	<100	<500	<5.0	<0.5	<0.5	<0.5	<0.5	-
AEI-19-W	7/26/2011	<50	<100	<500	<5.0	<0.5	<0.5	<0.5	<0.5	-
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

"<" = less than
 MDL = method detection limit
 TRPH = total recoverable petroleum hydrocarbons
 MTBE and BTEX analysis for AEI-16-W performed by EPA Method SW8260B

Table 6

**Groundwater Analytical Data - Grab Samples
TPH, MBTEX and TRPH**

AEI Project No. 298931, 1630 Park Street, Alameda, California

Sample ID	Date Collected	TPH-g (µg/L)	TPH-d* (µg/L)	TPH-mo* (µg/L)	MTBE (µg/L) EPA Method SW8021B/8015Bm	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TRPH (µg/L) EPA Method E418.1
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TPH-mo = TPH as motor oil
MTBE = methyl tertiary butyl ether
"*" = with silica gel cleanup
"-" = not available

Table 7
Groundwater Analytical Data - Grab Samples
VOCs, Fuel Oxygenates, SVOCs, and PCBs
 AEI Project No. 298931, 1630 Park Street, Alameda, California

Sample ID	Date Collected	1,4-Dioxane (µg/L)	TBA (µg/L)	EDB (µg/L)	EDC (µg/L) EPA Method SW8260B	MTBE (µg/L)	Fuel Oxygenates^ (µg/L)	All Target VOCs (µg/L)	All Target SVOCs (µg/L) EPA Method 8270	All Target PCBs (µg/L) EPA Method SW8082
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, SVOCs, and PCBs
 AEI Project No. 298931, 1630 Park Street, Alameda, California

Sample ID	Date Collected	1,4-Dioxane (µg/L)	TBA (µg/L)	EDB (µg/L)	EDC (µg/L) EPA Method SW8260B	MTBE (µg/L)	Fuel Oxygenates^ (µg/L)	All Target VOCs (µg/L)	All Target SVOCs (µg/L) EPA Method 8270	All Target PCBs (µg/L) EPA Method SW8082
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-14-W	7/26/2011	-	<2.0	<0.5	<0.5	<0.5	<MDL	-	-	-
AEI-15-W	7/26/2011	-	<2.0	<0.5	<0.5	<0.5	<MDL	-	-	-
AEI-16-W	7/26/2011	<2.0	<2.0	<0.5	<0.5	<0.5	<MDL	<MDL	<MDL	<0.5
AEI-27	1/17/2012	-	-	-	-	-	-	<MDL	-	-

mg/kg = milligrams per kilogram (equivalent to parts per million)

MDL = method detection limit

VOCs = volatile organic compounds

SVOCs = semi-volatile organic compounds

PCBs = polychlorinated biphenyls

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
Grab Groundwater Sample Analytical Data
Metals

AEI Project No. 298931, 1630 Park Street, Alameda, California

Sample ID	Date Collected	Cd µg/L	Cr (total) µg/L	Pb µg/L EPA Method E200.8	Ni µg/L	Zn µg/L
AEI-14-W*	7/26/2011	-	-	21	-	-
AEI-15-W*	7/26/2011	-	-	66	-	-
AEI-16-W**	7/26/2011	<0.25	<0.5	<0.5	8.7	<5.0

Notes:

µg/L = micrograms per liter

"*" = total

"**" = dissolved

Cd = Cadmium

Cr = Chromium

Pb =Lead

Ni = Nickel

Zn = Zinc

Table 9

Groundwater Analytical Data- Monitoring Wells
 AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	ETBE	Methanol	Lead
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(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	<5.0	<25	<5.0	<5.0	<5.0	-	<5.0	-	-
	6/27/2002	a	-	-	5,900	230	7.7	<5	1,500	-	<5	<5.0	<50	<5.0	<5.0	<5.0	-	<5.0	-	-
	11/18/2002	a	-	-	3,100	890	12	310	28	-	<2.5	-	-	<2.5	<2.5	-	-	-	-	-
	2/20/2003	d	-	-	260	100	0.72	<0.5	<0.5	-	<0.5	-	-	<0.5	<0.5	-	-	-	-	-
	6/11/2003	a	-	-	3,100	480	6.7	220	420	-	<2.5	-	-	<2.5	<2.5	-	-	-	-	-
	4/3/2008	a	-	-	2,700	280	21	130	230	<25	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<100	<1.0	<1,000	<0.5
	6/23/2011	a	-	-	610	100	6.2	46	77	-	<2.5	<2.5	<10	-	-	<2.5	-	<2.5	-	-
	12/6/2011	a	-	-	900	160	<5.0	68	76	-	<5.0	<5.0	<20	-	-	<5.0	-	<5.0	-	-
1/24/2012	a	-	-	190	25	<1.0	1.4	4.6	<1.0	-	-	-	-	-	-	-	-	-	-	
5/18/2012	f	210	<50	2,600	200	51	93	610	<5.0	-	-	-	-	-	-	-	-	-	-	

Table 9

Groundwater Analytical Data- Monitoring Wells
 AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	ETBE	Methanol	Lead
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(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	4,000	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	-	<30	<150	<30	<30	<30	-	<30	-	-
	6/27/2002	a	-	-	39,000	7,000	1,800	690	4,000	-	<5	<5.0	<5.0	<5.0	6.1	<5.0	-	<5.0	-	-
	11/18/2002	a	-	-	15,000	5,700	76	1,000	150	-	<12	-	-	<12	<12	-	-	-	-	-
	2/20/2003	a	-	-	26,000	6,300	1,100	1,300	1,900	-	<5.0	-	-	<5.0	<5.0	-	-	-	-	-
	6/11/2003	a	-	-	37,000	7,100	2,300	2,000	3,600	-	<25	-	-	<25	<25	-	-	-	-	-
	4/3/2008	a	-	-	4,100	760	96	250	130	<50	<2.5	<2.5	<10	<2.5	<2.5	<2.5	<250	<2.5	<2,500	<0.5
	6/23/2011	a	-	-	6,500	2,100	210.0	560	310	-	<50	<50	<200	-	-	<50	-	<50	-	-
	12/6/2011	a	-	-	4,800	1,600	<50	260	<50	-	<50	<50	<200	-	-	<50	-	<50	-	-
1/24/2012	a	-	-	2,500	100	22.0	<5.0	410	<5.0	-	-	-	-	-	-	-	-	-	-	
5/18/2012	f	68	<50	140	14	2.8	2.9	12	<0.5	-	-	-	-	-	-	-	-	-	-	

Table 9

Groundwater Analytical Data- Monitoring Wells
 AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	ETBE	Methanol	Lead
			(µg/L)	(µg/L)	(µg/L)	EPA Methods 8020, 8021B, or 8260B (µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(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	-	-	-	-	-	-	-	-	-	-
	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	<1.0	<5.0	<1.0	1.4	<1.0	-	<1.0	-	-
	6/27/2002		-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	-	<0.5	-	-
	11/18/2002	a	-	-	110	21	1	<0.5	<0.5	-	<0.5	-	-	<0.5	<0.5	-	-	-	-	-
	2/20/2003		-	-	<50	2.5	<0.5	<0.5	<0.5	-	<0.5	-	-	<0.5	<0.5	-	-	-	-	-
	6/11/2003		-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	<0.5	<0.5	-	-	-	-	-
	4/3/2008	a	-	-	7,600	2,400	58	250	170	<100	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<500	<5.0	<5,000	<0.5
	6/23/2011	a	-	-	1,300	560	21	86	150	-	<12	<12	<50	-	<12	-	<12	<12	-	-
	12/6/2011	a	-	-	1,800	620	28	22	46	-	<17	<17	<67	-	<17	-	<17	<17	-	-
	1/24/2012	a	-	-	3,700	1,200	68	34	130	<25	-	-	-	-	-	-	-	-	-	-
	5/18/2012	f	<50	<50	75	5.3	<0.5	<0.5	1.6	<0.5	-	-	-	-	-	-	-	-	-	-

Table 9

Groundwater Analytical Data- Monitoring Wells
 AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	ETBE	Methanol	Lead
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(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	<5.0	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<0.5	<500	<0.5
	6/23/2011	a	-	-	53	2.7	<0.5	1.0	1.7	-	<0.5	<0.5	<2.0	-	-	<0.5	-	<0.5	-	-
	5/23/2012	f	<50	<50	<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	-	-	-	-	-	-	-	-	-	-
	11/12/1998	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5	-	-	-	-	-	-	-	-	-	-
	1/16/2001	-	-	-	<50	11	<0.5	<0.5	0.82	-	<5	<1.0	<5.0	<1.0	<1.0	<1.0	-	<1.0	-	-
	6/27/2002	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	-	<0.5	-	-
	11/18/2002	a	-	-	130	17	3.8	2.1	16	-	<0.5	-	-	<0.5	<0.5	-	-	-	-	
	2/20/2003	-	-	-	<50	5.6	0.51	<0.5	0.68	-	<0.5	-	-	<0.5	<0.5	-	-	-	-	
	6/11/2003	a	-	-	170	48	<0.5	<0.5	1.4	-	<0.5	-	-	<0.5	<0.5	-	-	-	-	
	4/3/2008	a	-	-	31,000	490	3,400	1,600	5,300	<250	<10	<10	<40	<10	<10	<10	<1,000	<10	<10,000	<0.5
	6/23/2011	a	-	-	82	5.1	<0.5	12.0	8.4	-	<0.5	<0.5	<2.0	-	-	<0.5	-	<0.5	-	-
	5/18/2012	f	<50	<50	120	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-

Table 9

Groundwater Analytical Data- Monitoring Wells
 AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	ETBE	Methanol	Lead
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(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	<50	<200	-	-	<50	-	<50	-	-
	1/24/2012	a	-	-	3,200	170	58	<5.0	620	<5.0	-	-	-	-	-	-	-	-	-	-
	5/18/2012	f	280	<50	540	49	<1.0	<1.0	17	<1.0	-	-	-	-	-	-	-	-	-	-
DPE-2	12/6/2011	a	-	-	22,000	2,100	3,300	650	3,300	-	<100	<100	<400	-	-	<100	-	<100	-	-
	1/24/2012	a	-	-	1,100	44	26	11	150	<2.5	-	-	-	-	-	-	-	-	-	-
	5/18/2012	f	<50	<50	220	33	3.2	<0.5	30	<0.5	-	-	-	-	-	-	-	-	-	-
DPE-3	12/6/2011	a	-	-	6,400	550	560	180	1,000	-	<17	<17	<67	-	-	<17	-	<17	-	-
	1/24/2012	a	-	-	5,500	290	240	44	1,000	<5.0	-	-	-	-	-	-	-	-	-	-
	5/18/2012	f	260	<50	1,100	78	37	11	89	<1.7	-	-	-	-	-	-	-	-	-	-
DPE-4	1/24/2012	a	-	-	730	66	6.0	7.1	83	2.5	-	-	-	-	-	-	-	-	-	-
	5/18/2012	f	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
DPE-6	1/24/2012	a	-	-	64*	<0.5	<0.5	<0.5	3.2	<0.5	-	-	-	-	-	-	-	-	-	-
	5/18/2012	f	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
DPE-9	1/24/2012	a	<50	<50	4,400	160	390	93	1,100	<5.0	-	-	-	-	-	-	-	-	-	-
DPE-10	5/18/2012	f	420	<50	1,700	150	<5.0	<5.0	<5.0	160	-	-	-	-	-	-	-	-	-	-
DPE-11	5/18/2012	f	260	<50	930	6.4	4.6	4.6	160	<1.2	-	-	-	-	-	-	-	-	-	-
ESL			83	83	83	0.044	2.9	3.3	2.3	0.023	0.023	NA	0.075	0.00033	0.0045	NA	NA	NA	NA	750

Table 9

Groundwater Analytical Data- Monitoring Wells
 AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample ID	Date	Notes	TPH-d (µg/L)	TPH-mo (µg/L)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)	Methanol (µg/L)	Lead (µg/L)
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TPH-g= total petroleum hydrocarbons as gasoline
 TPH-d= total petroleum hydrocarbons as diesel
 TPH-mo= total petroleum hydrocarbons as motor oil
 MTBE = Methyl tertiary butyl ether
 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
 "-" = Not analyzed or data not available
 µg/L = micrograms per liter (ppb)
 ESL = Environmental Screening Levels, Table A-2, Shallow Soil, Commercial- Potential Drinking Water, San Francisco Regional Water Quality Control Board, Revised May 2008
 NA = Not applicable

- 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 compounds (the most mobile fraction) are significant.
- e = Laboratory note indicates that one to a few isolated non-targeted peaks are present.
- f = Laboratory note indicates that low surrogate due to matrix interference.

* Total petroleum hydrocarbons as diesel = <50; Total petroleum hydrocarbons as motor oil = <250

Table 10

Soil Vapor Monitoring Analytical Data

AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample ID	Sample Date	Contaminants of Concern									CH4 %	O2 %	CO2 %
		TPH-g (C-C12) (µg/m3)	TVH (C5-C11) (µg/m3)	Benzene (µg/m3)	Toluene (µg/m3)	Ethyl- benzene (µg/m3)	Xylenes (µg/m3)	Oxygenates (TAME, DIPE, ETBE, MTBE) (µg/m3)	Oxygenates (TBA) (µg/m3)	Isopropyl Alcohol (µg/m3)			
VP-1 *	5/17/2012	<1,800	NA	<6.5	<7.7	<8.8	<27	NA	NA	<50	0	17.7	0.5
	5/30/2012		0								ND	27.0	1.7
	7/12/2012	<1,800	<1,800	<6.5	<7.7	<8.8	<27	ND	<62	<50			
VP-2 *	5/17/2012	<1,800	NA	<6.5	<7.7	<8.8	<27	NA	NA	<50	0	18.4	0.4
	5/30/2012		0								ND	28.0	1.3
	7/12/2012	<1,800	<1,800	<6.5	<7.7	<8.8	<27	ND	230	<50			
VP-3 *	5/17/2012	<1,800	NA	<6.5	<7.7	<8.8	<27	NA	NA	<50	0	18.2	0.9
	5/30/2012		0								0.00011	28.0	2.4
	7/12/2012	<1,800	<1,800	<6.5	<7.7	<8.8	<27	ND	<62	290			
ESL		10,000	NA	84	63,000	980	21,000	NA	NA	NA			

Notes:

TPH-g= total petroleum hydrocarbons as gasoline

µg/m3 = micrograms per cubic meter (ppbv)

NA = Not applicable

ESL = Environmental Screening Levels, Table E-2, San Francisco Regional Water Quality Control Board
(Shallow Soil Gas- Lowest Residential), Revised May 2008

Field monitoring performed using an Eagle photo-ionization detector/multi-gas meter

ATTACHMENT A

ATTACHMENT A
Initial Site Conceptual Model
Former Good Chevrolet
1630 Park Street, 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	<p>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 were consistent with these prior observations.</p> <p>Hydrology: During the drilling conducted by AEI in 2011-12, groundwater was first observed in the temporary direct push borings at depths of approximately 9 to 11 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 7.5 to 9.5 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 1×10^{-2} to 2×10^{-2} ft/ft. and exists as an unconfined aquifer.</p>	Figures 3, 4 and 5; Tables 1 and 2; 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). 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 well search, ten (10) wells are located within 2,000 feet of the site. 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 200 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.	March 30, 2012 Subsurface Investigation and Well Installation Report: Section 9.0.	None	n/a
Potential Source(s)	On Site	<p>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.</p> <p>Hydraulic Lifts & Repair Area: A total of 10 current and 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. No significant impact was identified in the other lift areas or near the drain features investigated.</p> <p>Former Paint Booth: A paint booth was identified in a 1950 Sanborn map. Soil boring SB-27 was drilled in this location in Jan. 2012; no significant release was identified.</p> <p>Former USTs (South end of site): one 10,000-gallon gasoline UST, one 4,000-gallon gasoline UST, and one 550-gallon waste oil UST at the southern portion of the site 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.</p>	See Previous Reports	None	n/a

ATTACHMENT A
Initial Site Conceptual Model
Former Good Chevrolet
1630 Park Street, Alameda, CA

SCM Element	SCM Sub-Element	Description	Figures & Tables Reference	Data Gap	How to Address Data Gap
Potential Source(s)	Off Site	<p>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.</p> <p>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.</p>	GeoTracker ACEH website	None	n/a
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. The timing, duration and volume of the oil release are unknown.	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 a release from that waste oil UST was not significant.	Groundwater Technology, Inc., April 1987; AEI, June 11, 2012 Groundwater Monitoring Report.	ACEH has requested further assessment of the presence of oil-range hydrocarbons in the area of the former waste-oil UST	Waste-oil constituent analyses will be included in the analytical suite during forthcoming excavation sampling and during the next groundwater monitoring events.
	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 although the former waste oil UST may have contributed to the heavier range petroleum detected to some small degree. Again, the timing, duration and volume of the oil release are unknown.	See Previous Reports	None	n/a
Constituents of Concern		<p>The primary contaminants of concern are gasoline and gasoline constituents [TPH-g, benzene, toluene, ethylbenzene, and xylenes (BTEX)] from the gasoline UST release. MTBE has not been detected during recent sample analyses nor have significant concentrations of fuel oxygenates been detected.</p> <p>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.</p> <p>Lead has been detected in soil around the former USTs and may be a constituent of concern in the soil.</p>	Tables 3, 4, 5 (soil); Tables 6, 7, 8, 9 (water).	None	n/a (see above for discussion of waste-oil UST constituents)

ATTACHMENT A
Initial Site Conceptual Model
Former Good Chevrolet
1630 Park Street, 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	<p>Gasoline impacted soil is centered on the former UST and extends laterally in each direction, primarily to the north-northwest toward Park Street. The zone of impact is 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.</p> <p>Oil impacted soil was identified adjacent to several former lifts in the northeastern corner of the existing building. While the lateral extent of oil impacted soil has not been fully defined it is expected to be limited based on the typically low volumes released from such lifts. The vertical extent of impacted soil has been well defined by past investigations. 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.</p>	Figures 3, 4 and 6 Tables 3, 4 and 5 Boring Logs	None	n/a
	Impacts in Groundwater	The dissolved phase plume is also centered on the former UST hold and spreads generally in a northwesterly direction. The extent of the 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). Groundwater impacts are also well defined to the northwest as demonstrated by analysis of groundwater samples collected in May 2012, from monitoring wells MW-4 and MW-5 (Table 9).	Figure 5; Tables 6, 7, 8, 9.	Grab groundwater samples collected from temporary	Install four (4) additional groundwater monitoring wells and use existing well DPE-6 for groundwater monitoring.
	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 did not detect volatile gasoline constituents (TPH-g, MTBE, BTEX) in May 2012. This suggests that the potential for vapor intrusion into future commercial structures is minimal.	Table 10	Further monitoring is required by ACEH to assess vapor phase volatile constituents	Additional soil gas monitoring and analyses for volatile constituents and atmospheric gases to assess extent and attenuation of vapor phase constituents in the shallow vadose zone.

ATTACHMENT A
Initial Site Conceptual Model
Former Good Chevrolet
1630 Park Street, Alameda, CA

SCM Element	SCM Sub-Element	Description	Figures & Tables Reference	Data Gap	How to Address Data Gap
Migration Pathways	Preferential Pathways / Conduits	<p>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 Blymar 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 did not intersect the water table and are not preferential conduits to dissolved phase plume migration. All existing onsite utilities been recently removed or will be removed prior to development.</p> <p>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 7.5 to 9.5 feet bgs. As such, it appears that only the 10-inch sanitary sewer line which runs along the middle of Park Street may intersect groundwater at the site. Wells MW-4 and MW-5 are located between the site release area and the sanitary sewer line. During the most recent groundwater monitoring in May 2012, all constituents (TPH-g, TPH-d, TPH-mo, MTBE and BTEX) were all reported as non-detect with the exception of 120 µg/L of TPH-g in MW-5. This suggests that significant petroleum mass (i.e. free phase product) has not intersected the sewer line. Although low dissolved phase concentrations may have intersected the sewer line in the past, with minor plume deflection resulting, the low concentrations detected in MW-4 and MW-5 suggests that any such deflection would not be materially significant. Therefore the sewer line is not considered a preferential pathway of concern.</p>	March 30, 2012 Subsurface Investigation and Well Installation Report: Section 8.0, Figure 8	None	n/a
Potential Receptors & Risks	On Site	<p>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:</p> <ul style="list-style-type: none"> -future commercial use occupants via vapor intrusion -future construction workers via direct contact with soil, groundwater, or vapors -future maintenance / construction workers via direct contact with soil or vapors 	n/a	Risk to onsite receptors is not known	Human health risks will be evaluated upon completion of interim source removal excavation, groundwater and soil gas monitoring, and implementation of data gaps investigation. Mitigation measures will be recommended, as needed, during construction.
	Off Site	Potential offsite receptors could include nearby water producing wells, if present (none identified)	n/a	Likelihood of threat to offsite receptors is minimal	Human health risks will be evaluated upon completion of interim source removal excavation, groundwater and soil gas monitoring, and implementation of data gaps investigation.

ATTACHMENT B

ATTACHMENT B
Data Gaps and Proposed Investigations
Former Good Chevrolet
1630 Park Street, Alameda, CA

Item	Data Gap	Description	Proposed Investigation	Rationale	Analyses
1	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 a release from that waste oil UST was not significant, however; ACEH has requested further assessment of the presence of oil-range hydrocarbons in the area of the former waste-oil UST.	Waste-oil constituent analyses will be included in the analytical suite during forth-coming excavation of the former tank pit (Note: the rationale for which is driven by residual gasoline source, not specifically the former Waste-Oil UST) soil sampling and during the next groundwater monitoring events.	If significant TPH-mo constituents are present in the bottom or sidewall soil samples collected from the excavations, it would indicate a possible source location. If TPH-mo concentrations are detected in groundwater collected from the existing or proposed monitoring wells, their distribution would suggest the location of source area and potentially provide further delineation of the dissolved TPH-mo plume.	<u>Soil:</u> TPH-mo by EPA Method 8015 Sample with the highest detection of TPH-mo will be analyzed for the items listed in Item 2 below for DPE-9 <u>Water:</u> TPH-mo by EPA Method 8015
2	Impacts in Groundwater	The extent of hydrocarbon impacts in groundwater is not defined to the west/southwest, or to the north/northeast.	Install four (4) additional groundwater monitoring wells and use existing well DPE-6 for groundwater monitoring.	New wells will be located in the gaps of the current monitoring well array. Well DPE-6 is ideally located to fill the gap south of the former UST pit.	<u>Water:</u> TPHmo and TPHd by EPA Method 8015M with silica gel cleanup; TPHg by EPA Method 8015 Modified; BTEX by EPA Method 8260B. Additional analyses for DPE-9: Chlorinated VOC's and fuel oxygenates by EPA Method 8260B; LUFT 5 metals (Cd, CR, Pb, Ni, Zn) by ICAP or AA; PCB, PCP, PNA, creosote, and 1,4-dioxane by EPA Method 8270.
3	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 did not detect volatile gasoline constituents (TPH-g, MTBE, BTEX) in May 2012. This suggests that the potential for vapor intrusion into future commercial structures is minimal. Further monitoring is required by ACEH to assess vapor phase volatile constituents.	Install soil vapor monitoring points in critical areas. Probe locations to be determined once building footprint is approved. A workplan will be submitted to ACEH with proposed locations. Initiate periodic soil gas sampling and analyze for volatile constituents and atmospheric gases.	Perform an assessment of the magnitude and extent of vapor phase constituents in the shallow vadose zone, if present. Periodic monitoring will allow an assessment of the attenuation of the vapor phase constituents, if present.	<u>Soil Gas:</u> TPHg by EPA Method TO-3; TVHC, naphthalene and BTEX by EPA Method TO-15; Atmospheric gases by ASTM D 1946-90
4	Human Health Risks (Onsite Workers)	Risk to onsite receptors is not known. Potential receptors at the site could include: -future commercial use occupants via vapor intrusion -future construction workers via direct contact with soil, groundwater, or vapors -future maintenance / construction workers via direct contact with soil or vapors	Human health risks will be evaluated upon completion of interim source removal excavation, groundwater and soil gas monitoring, and implementation of data gaps investigation. Mitigation measures will be recommended, as needed, during construction.	Risk to onsite receptors will be based on soil, groundwater and soil gas data. Risk will be assessed once the interim source removal excavation is complete and proposed wells and soil gas monitoring points are installed and sampled.	<u>Soil Gas:</u> TPHg by EPA Method TO-3; TVHC, naphthalene and BTEX by EPA Method TO-15; Atmospheric gases by ASTM D 1946-90 <u>Water:</u> TPHmo and TPHd by EPA method 8015 Modified with silica gel cleanup; TPHg by EPA Method 8015 Modified; BTEX by EPA Method 8260B. <u>Soil:</u> TPHg by EPA Method 8015 Modified; TPH-mo by EPA 8015; BTEX by EPA Method 8260B.

ATTACHMENT C

Table 10 (Revised)
Proposed Groundwater Monitoring Schedule
 AEI Project No. 298931, 1630 Park Street, Alameda, California

Existing Monitoring Wells	Well Diameter in inches (screen interval in ft bgs)	Proposed Schedule									
		2012		2013				2014			
		3 rd QTR July	4 th QTR November	1 st QTR February	2 nd QTR May	3 rd QTR August	4 th QTR November	1 st QTR February	2 nd QTR May	3 rd QTR August	4 th QTR November
MW-1	2" (5-20)	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	2" (5-20)	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	2" (5-20)	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	2" (8-23)	X	X	X	X	X	X	X	X	X	X
MW-5	2" (7-22)	X	X	X	X	X	X	X	X	X	X
DPE-1	4" (7-15)	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
DPE-2	4" (7-15)	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
DPE-3	4" (7-14)	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
DPE-4	4" (8-17)	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
DPE-5	4" (8-18)		NA	NA	NA	NA	NA	NA	NA	NA	NA
DPE-6	4" (8-18)	X	X	X	X	X	X	X	X	X	X
DPE-8	4" (8-18)		NA	NA	NA	NA	NA	NA	NA	NA	NA
DPE-9	4" (8-18)		NA	NA	NA	NA	NA	NA	NA	NA	NA
DPE-10	4" (8-17)	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
DPE-11	4" (8-18)	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	2" (7-17) - planned		X	X	X	X	X	X	X	X	X
MW-7	2" (7-17) - planned		X	X	X	X	X	X	X	X	X
MW-8	2" (7-17) - planned		X	X	X	X	X	X	X	X	X
MW-9	2" (7-17) - planned		X	X	X	X	X	X	X	X	X

Notes:

- X** = Well will be monitored and sampled
- NA** = Well not accessible or has been abandoned.

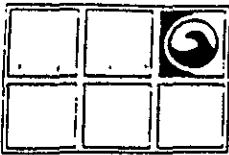
Groundwater Samples will be analyzed for:

TPHmo and TPHd by EPA method 8015 Modified with silica gel cleanup, TPHg by EPA method 8015 Modified, and VOCs by EPA method 8260B.

Assumes that by 4th QTR 2012, DPE wells beneath the building will be plumbed for extraction beneath the building foundation.

Assumes that MW-6 through MW-9 will be installed during 4th QTR 2012.

ATTACHMENT D

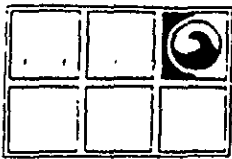


Project Good Chevrolet Owner Good Chevrolet
 Location 1630 Park St. Alameda Project Number 20-8208
 Date Drilled 1/15/87 Total Depth of Hole 20 ft. Diameter 7.5 inches
 Surface Elevation _____ Water Level, Initial 14 ft., 24-hrs. _____
 Screen: Dia. .020 Length 15 feet Slot Size .020
 Casing: Dia. 2 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
0					8 inches base course
2					Black silty sand (loose, dry, no product odor)
4					(grades light brown, medium dense)
5			A 5		
12			12		
14			14		
6					SM
8					(strong product odor)
10			B 10		
19			19		
30			30		
14			C 10		
14			14		Encountered water 1/15/87
19			19		(grades no product odor)
20					Drilled to 20 feet, installed well
22					
24					



Monitoring Well 2

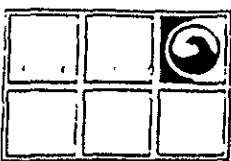
Drilling Log

Project Good Chevrolet Owner Good Chevrolet
 Location 1630 Park St. Alameda Proj. 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 product odor) (grades tan)
4			A 6		
6			6	SM	(grades slight product odor)
8			12		
10			B 10		(grades dense)
12			21		(strong product odor)
14			27		(very slight product odor)
16			C 15		Encountered water 1/15/87
18			20		(grades no product odor)
20			28		
22					
24					Drilled to 20 feet, installed well



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

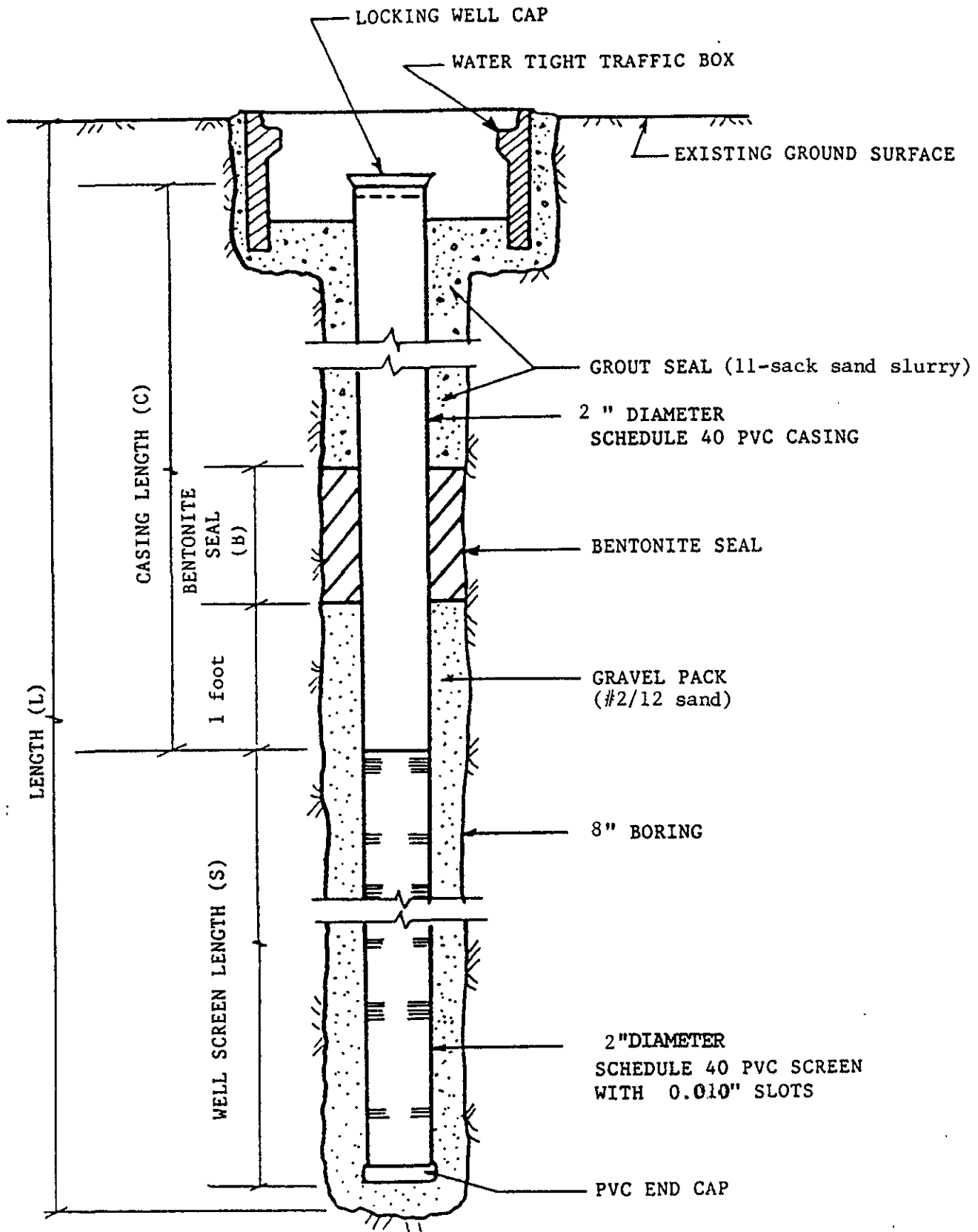
Sketch Map

Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification
0					3 inches Asphalt
0					8 inches base course
0					Tan silty sand (loose, dry, no product odor)
4			A 4	SM	(grades medium dense)
6			6		
6			11		
8				SC	Tan clayey sand (medium dense, dry, no product odor)
8			B 10		(grades less clay, strong product odor)
10			15		
10			24		Tan silty sand (dense, dry, slight product odor)
12					
14			C 11	SM	Encountered water 1/15/87
16			16		(grades no product odor)
16			20		
18					
20					Drilled to 20 feet, installed well
22					
24					

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. <u>MW-4</u> DATE: <u>4/20/94</u> LOCATION: <u>Good Chevrolet - Park Street</u> EQUIPMENT: <u>Exploration Geoservices</u> PROJECT No. _____
								A/C Pavement and Aggregate Base
	9	0.5	S1	5		SM		<u>SAND</u> , fine to medium grained with some gravel, gray, moist, medium dense
	37	3.8	S2	10		SM		<u>SAND</u> , fine to medium grained, gray, dense, wet
	39	0.8	S3	15		SM		<u>SAND</u> , fine to medium grained, red, wet, dense
					25			Boring terminated at 23.0 feet. Monitoring well constructed (2-inch). Ground water encountered at 11 feet.

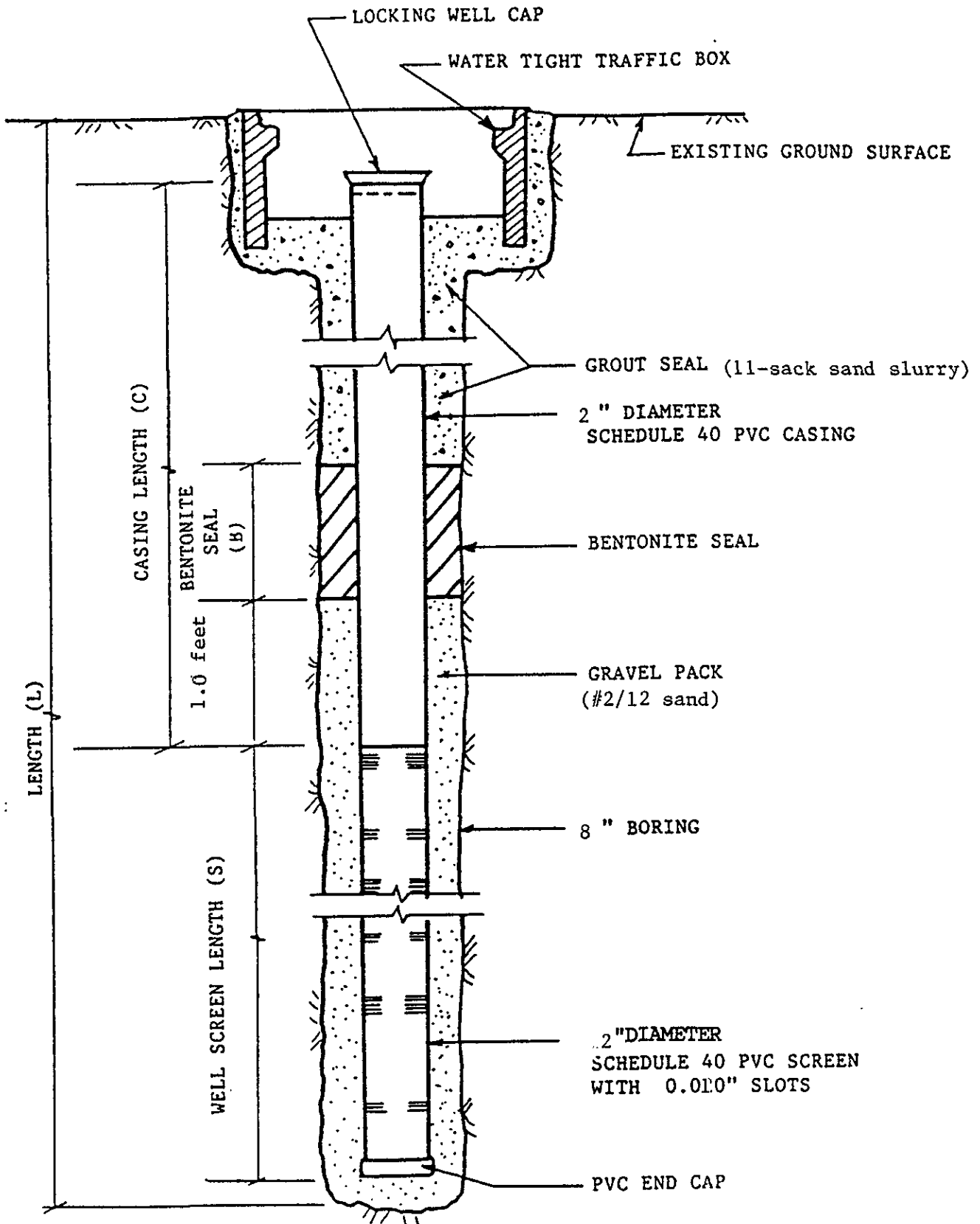


L= 23 feet
 S= 15 feet
 C= 8 feet
 B= 1 foot

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

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. <u>MW-5</u> DATE: <u>4/20/94</u> LOCATION: <u>Good Chevrolet - Park Street</u> EQUIPMENT: <u>Exploration Geoservices</u> PROJECT No. _____
								A/C Pavement and Aggregate Base
						SM		<u>SILTY SAND</u> , 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



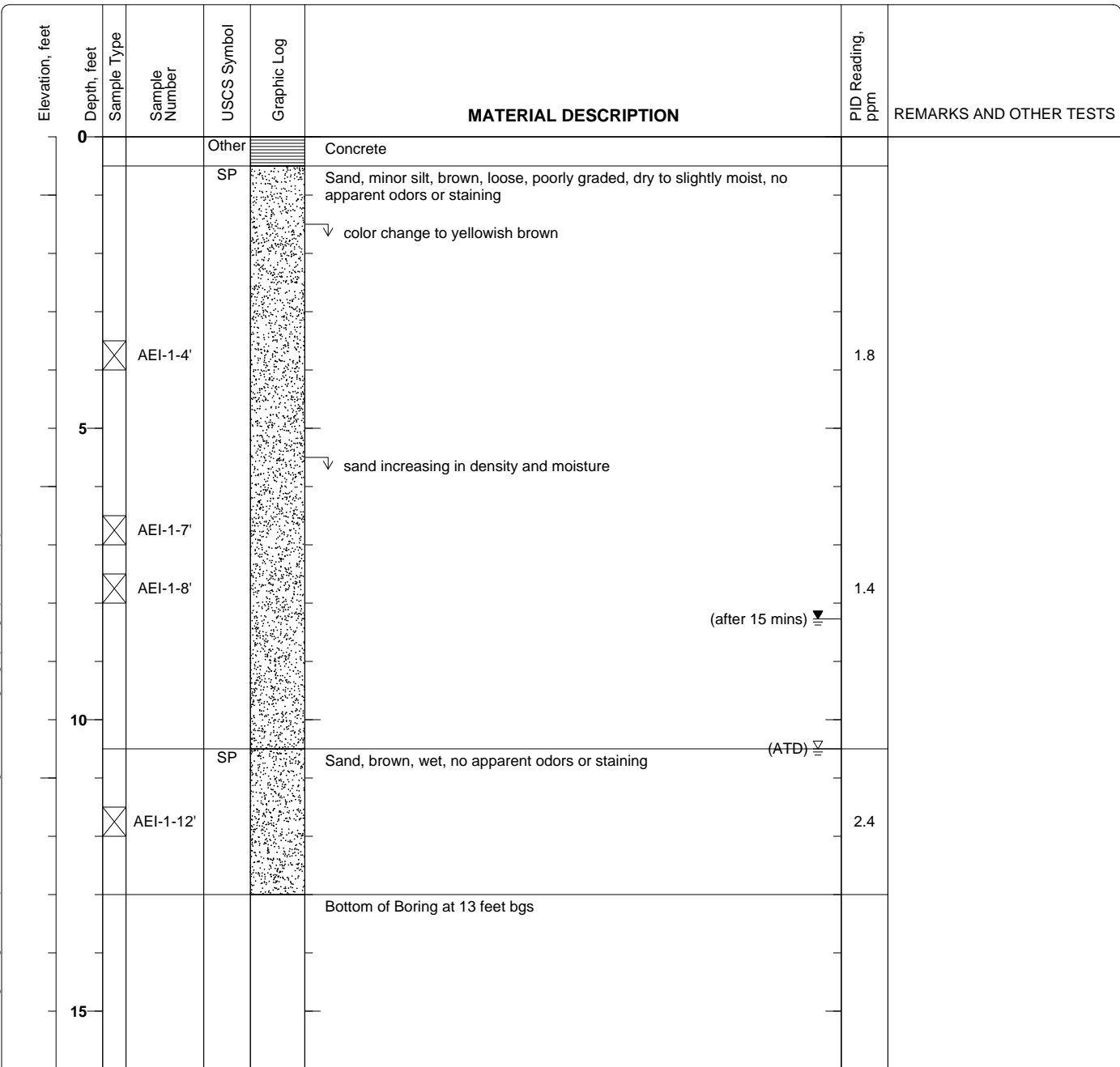
L= 22 feet
 S= 15 feet
 C= 7 feet
 B= 1 foot

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

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

Log of Boring AEI-1
 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, 8.27 feet after 15 mins	Sampling Method(s) Tube	Well Permit.
Borehole Backfill Neat grout cement	Location Existing Hydraulic Lift	



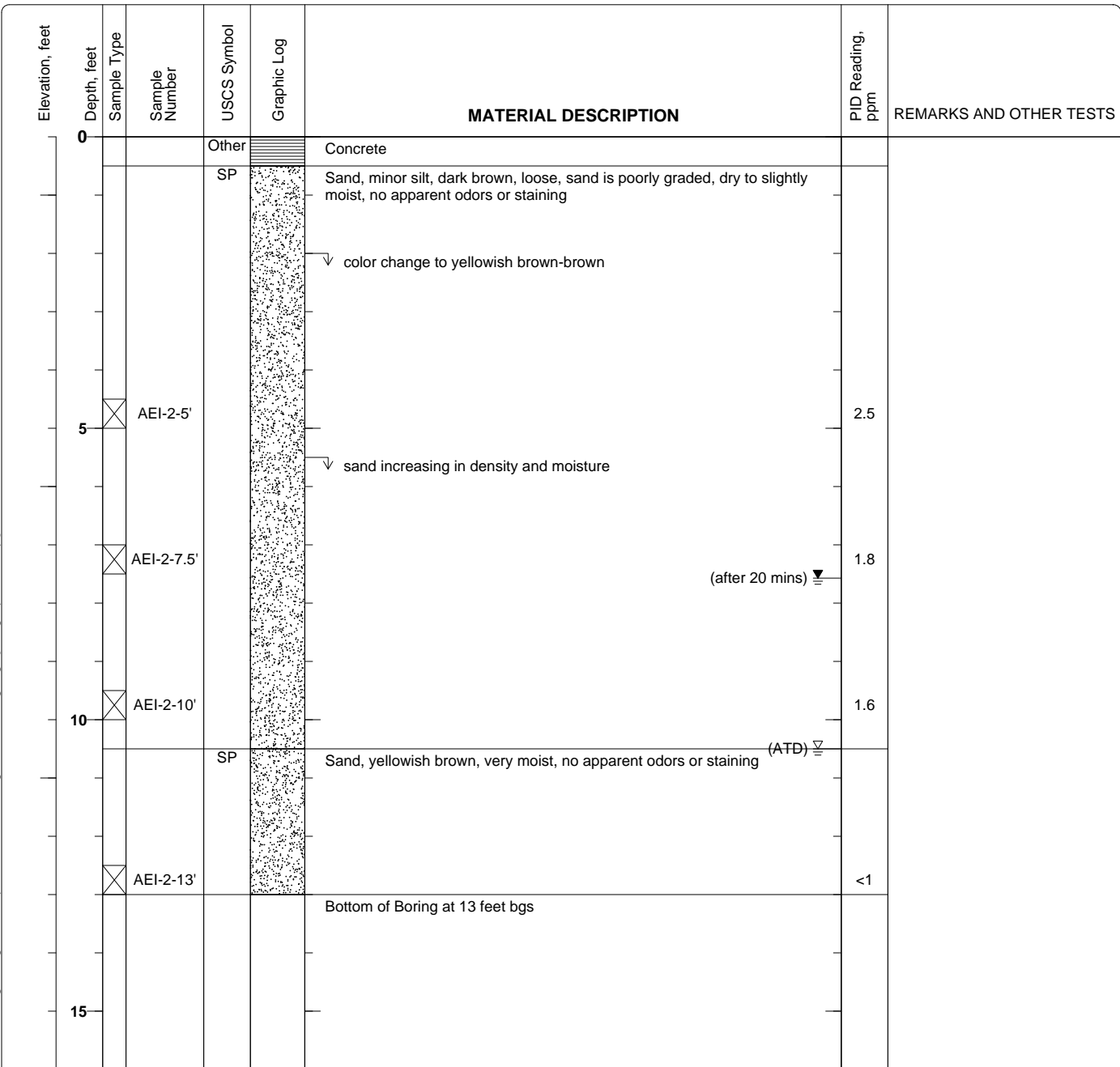
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Figure

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

Log of Boring AEI-2
 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, 7.57 feet after 20 mins	Sampling Method(s) Tube	Well Permit.
Borehole Backfill Neat grout cement	Location Existing Hydraulic Lift	

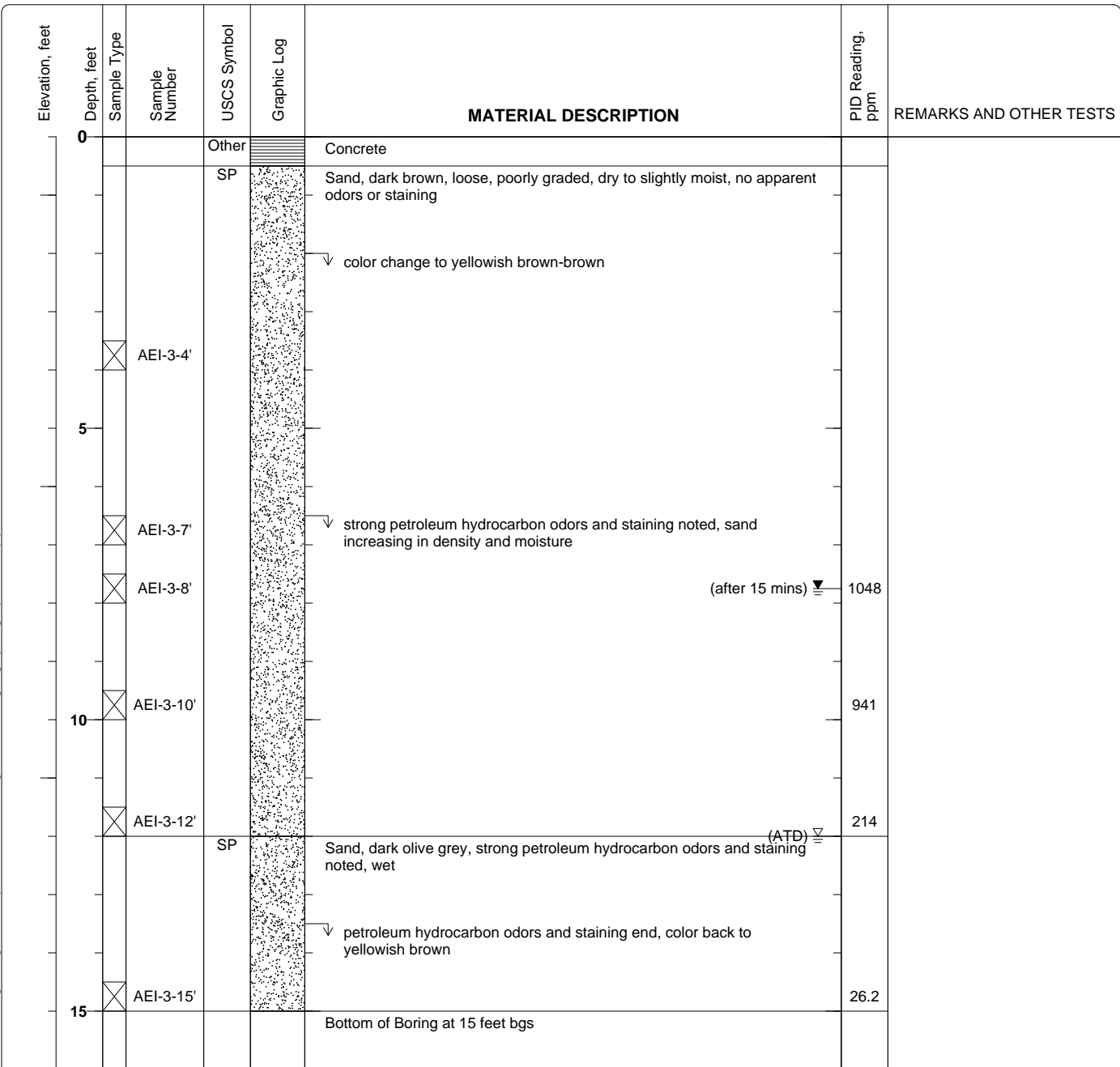


Figure

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	

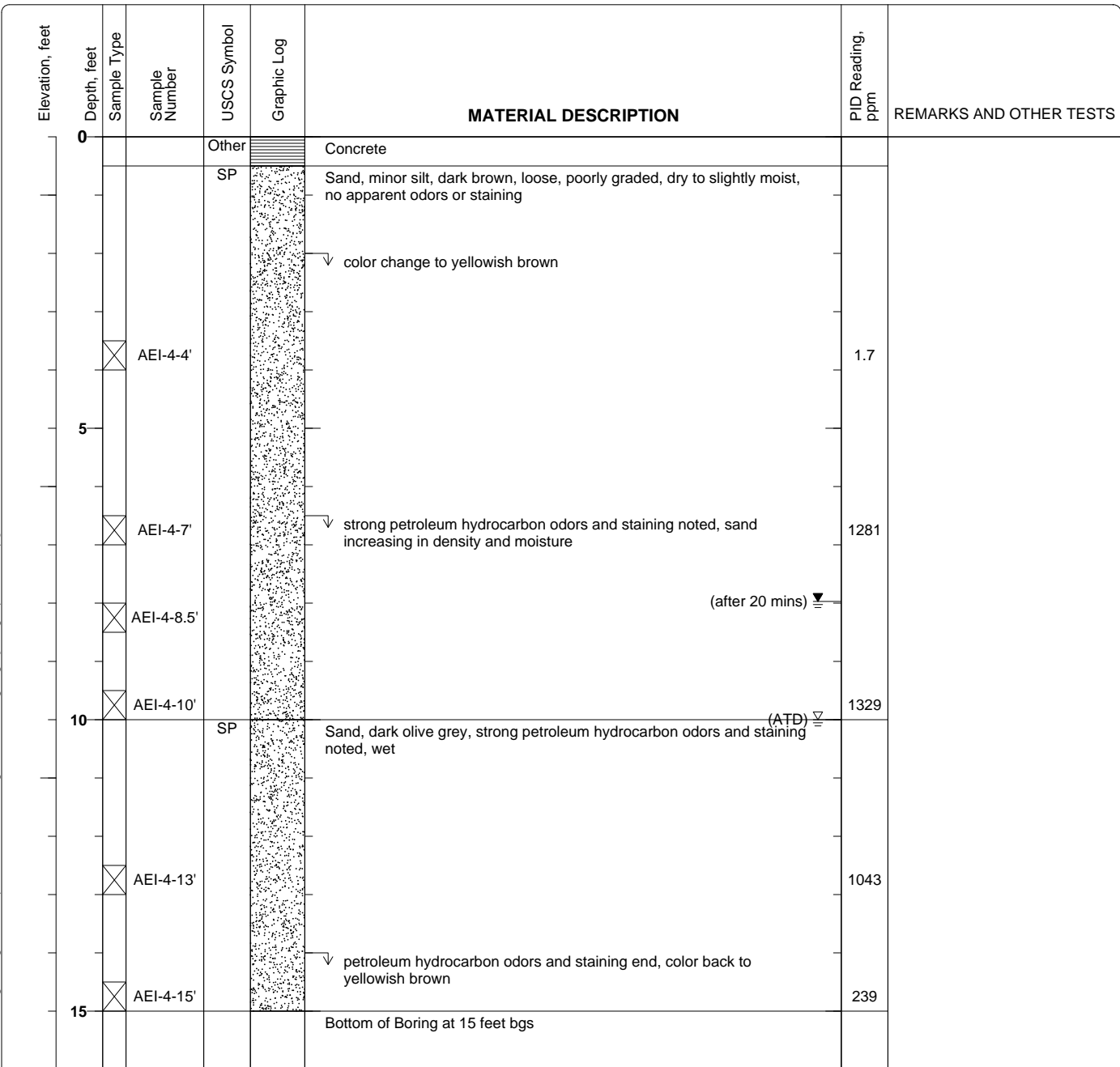


Figure

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	



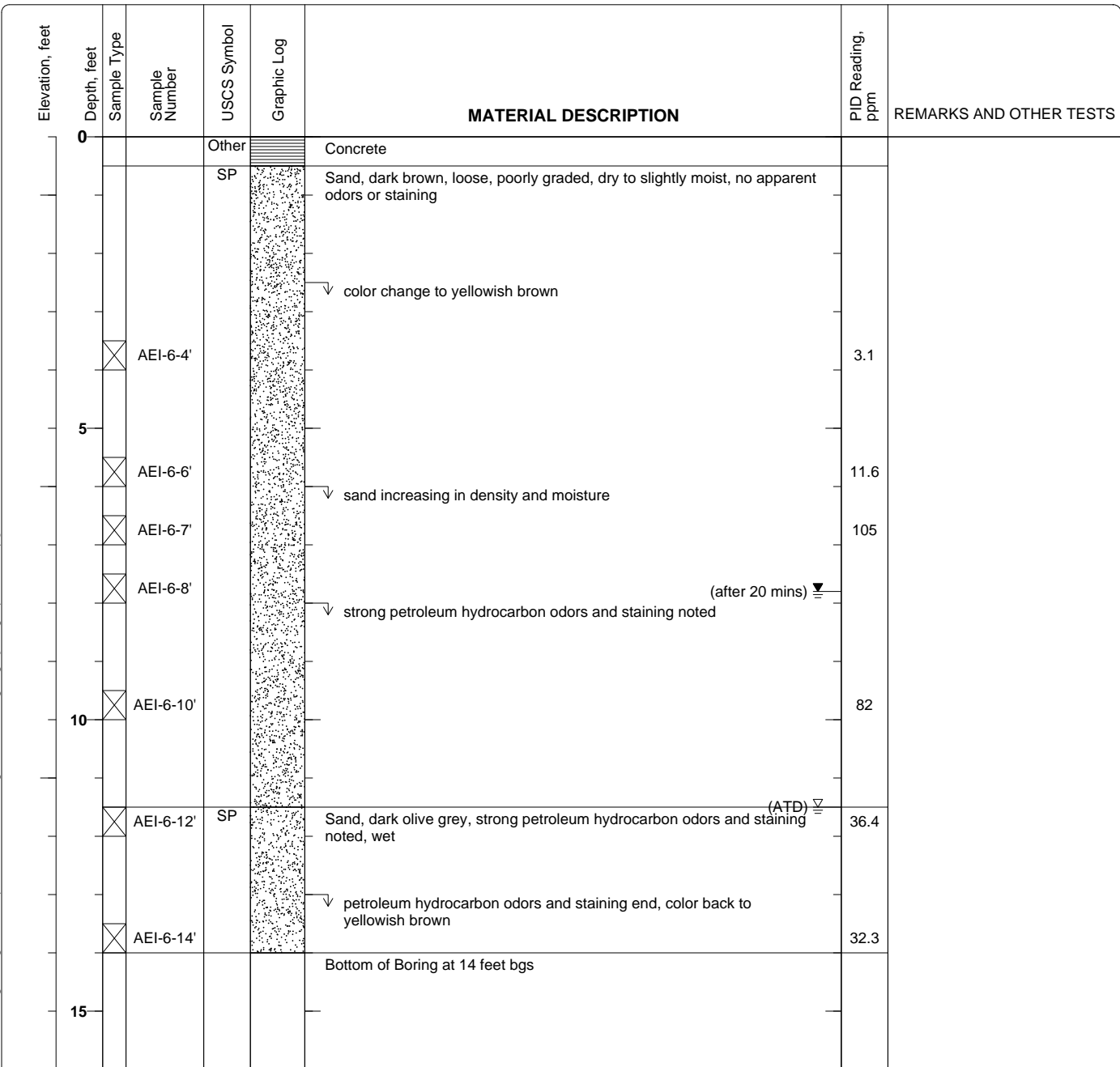
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Figure

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	

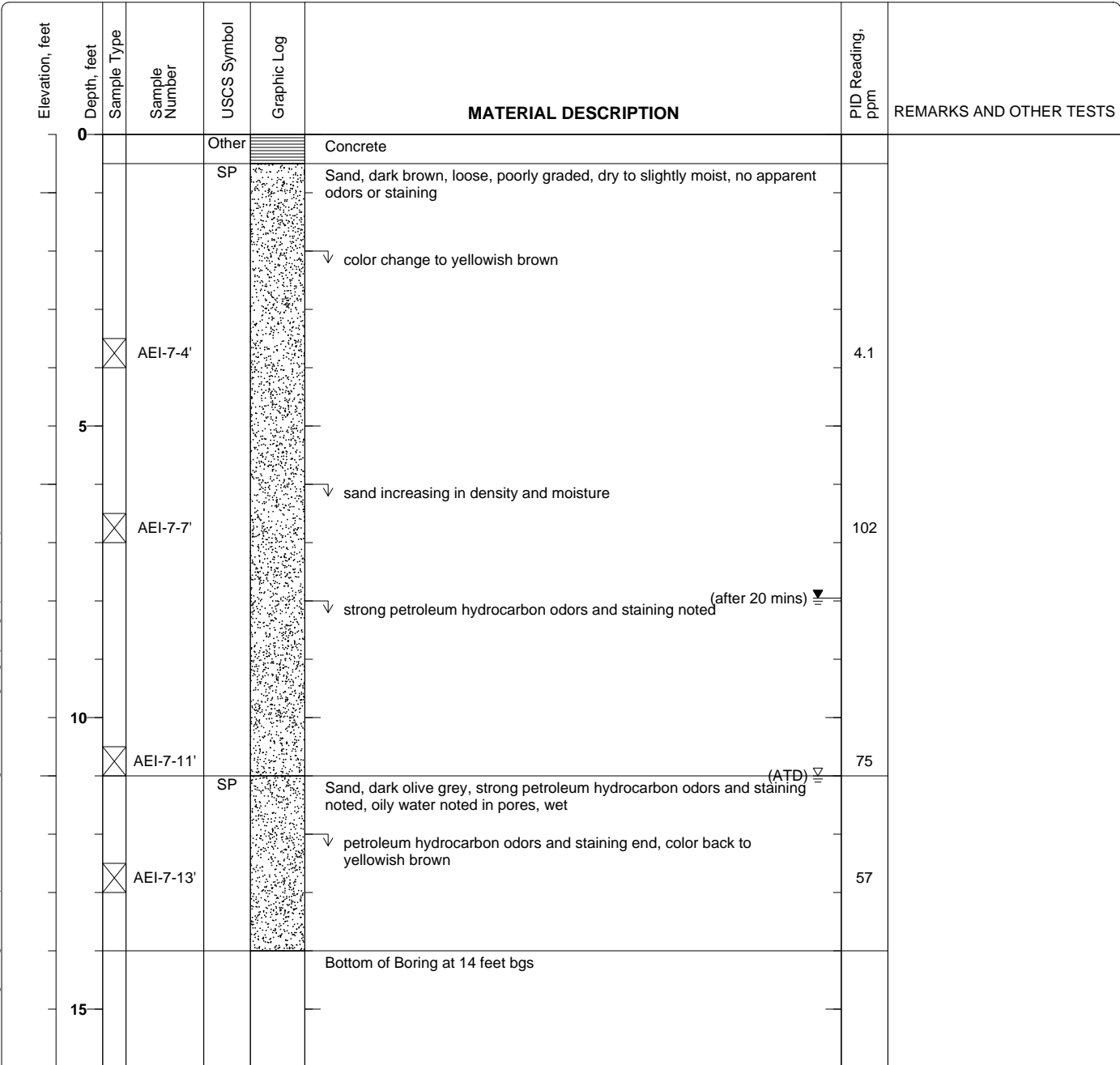


Figure

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	

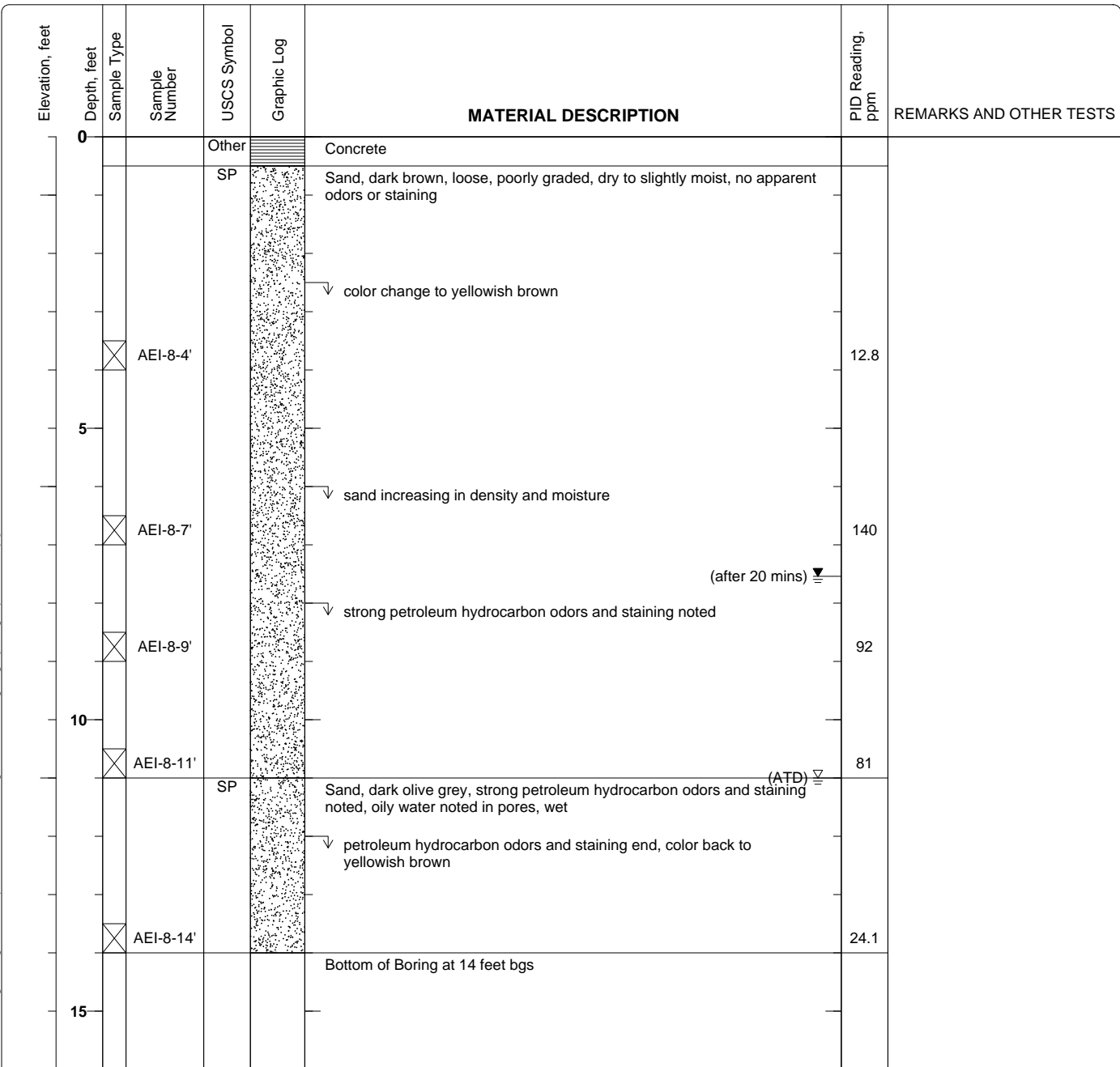


Figure

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	



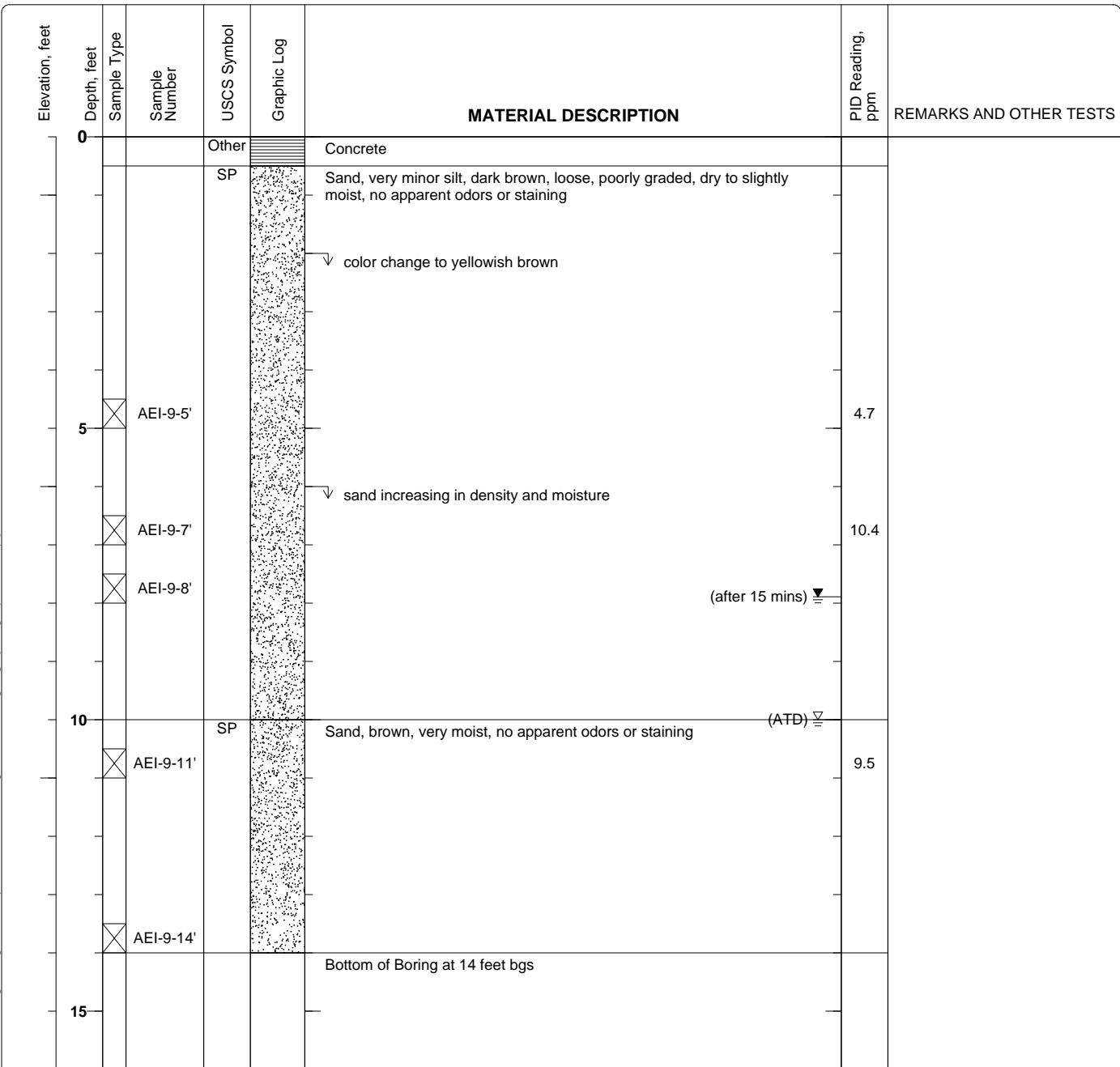
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Figure

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

Log of Boring AEI-9
 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 10 feet ATD, 7.89 feet after 15 mins	Sampling Method(s) Tube	Well Permit.
Borehole Backfill Neat grout cement	Location Existing Hydraulic Lift	



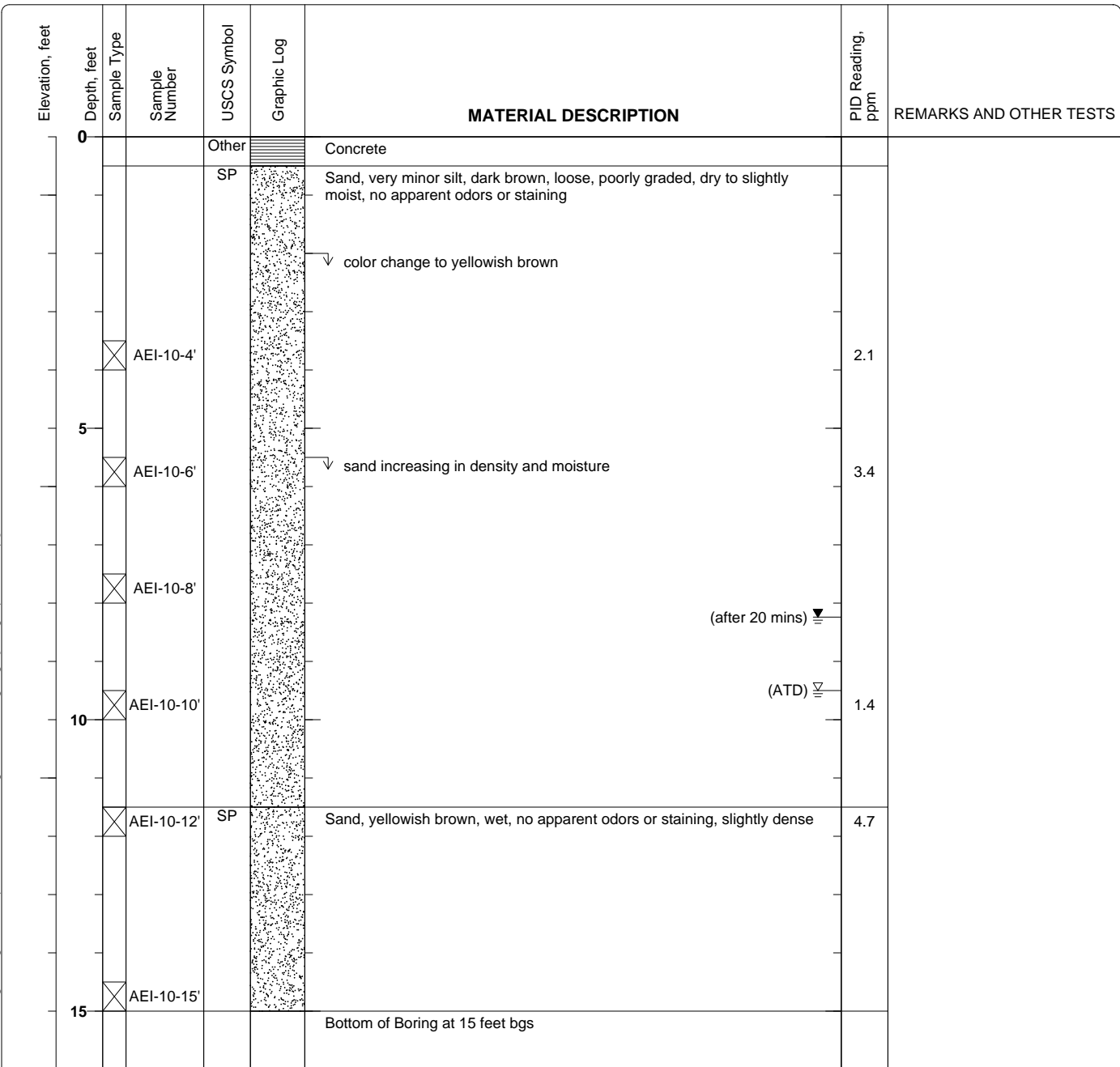
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Figure

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

Log of Boring AEI-10
 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 9.5 feet ATD, 8.24 feet after 20 mins	Sampling Method(s) Tube	Well Permit.
Borehole Backfill Neat grout cement	Location Existing Hydraulic Lift	

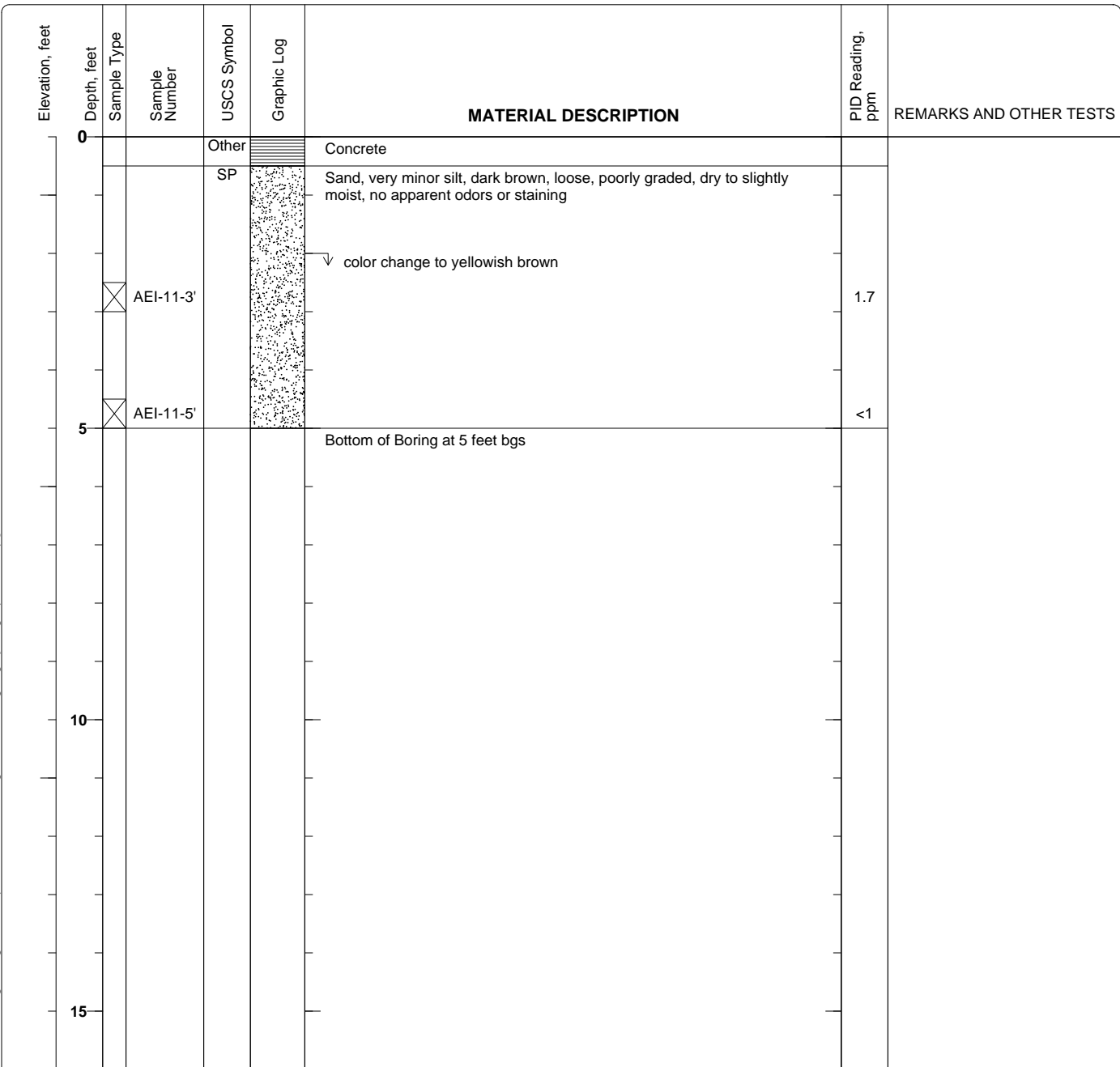


Figure

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	

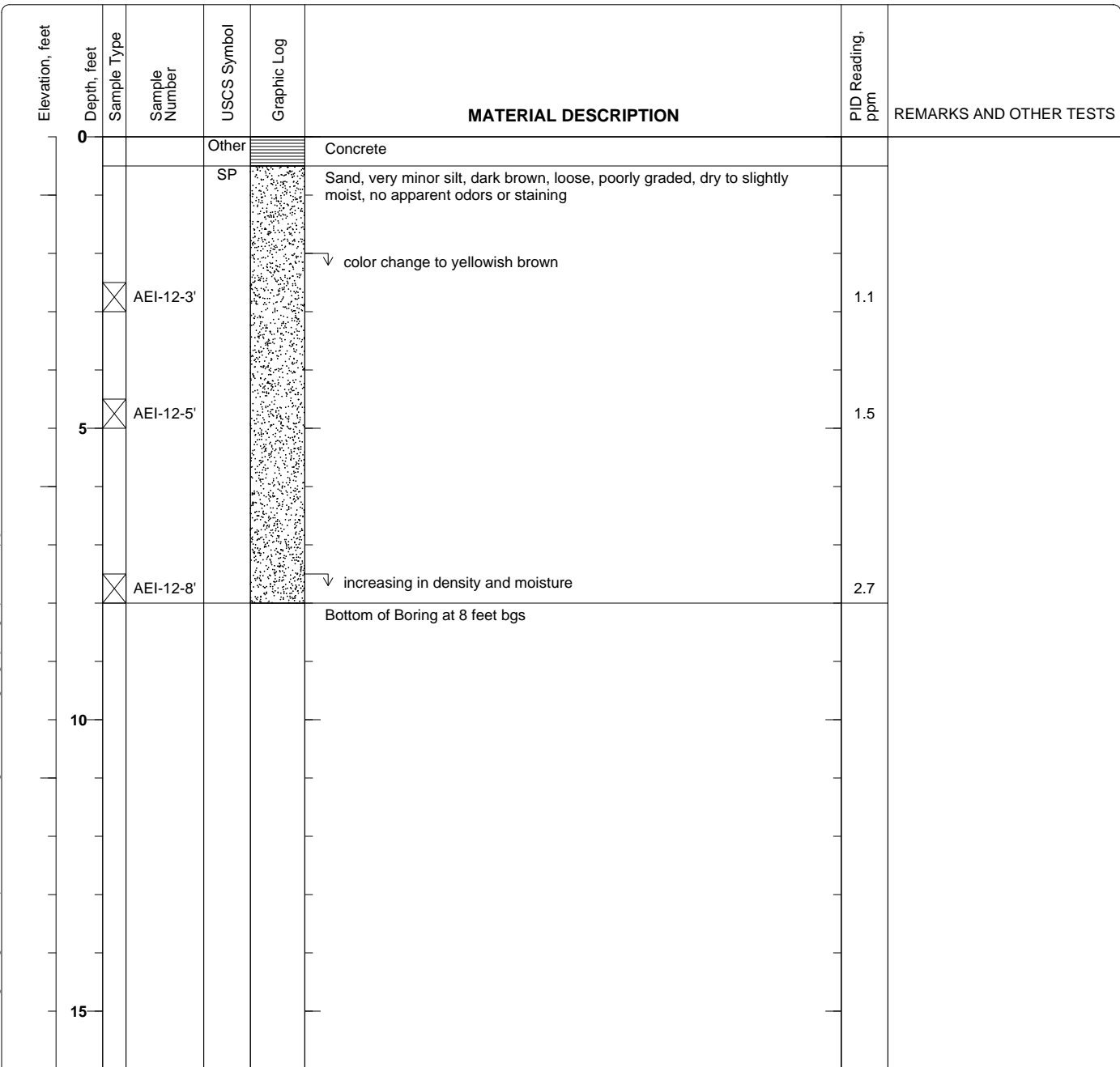


Figure

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	

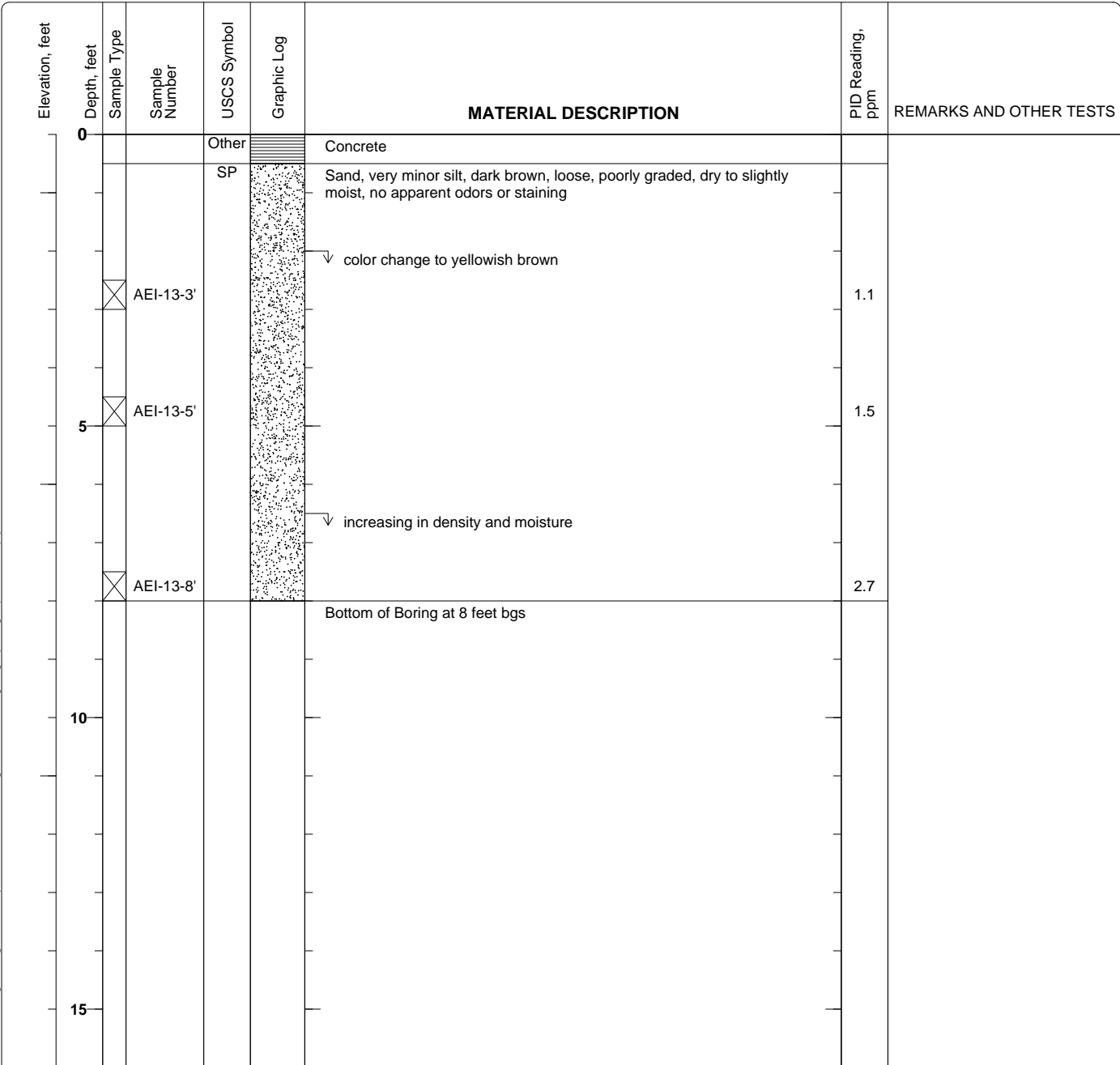


Figure

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	

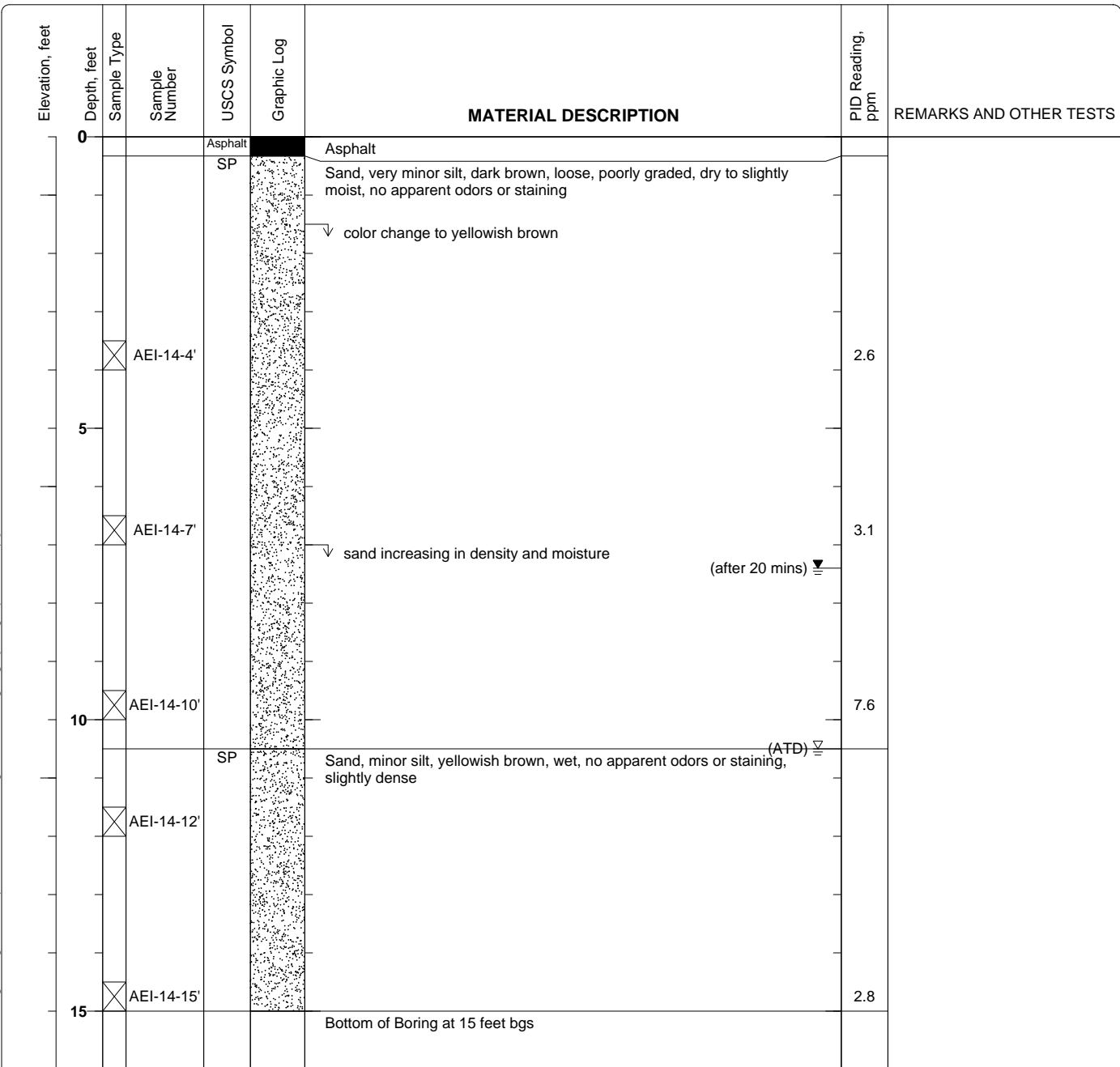


Figure

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

Log of Boring AEI-14
 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 10.5 feet ATD, 7.4 feet after 20 mins	Sampling Method(s) Tube	Well Permit.
Borehole Backfill Neat grout cement	Location Existing Gas UST	



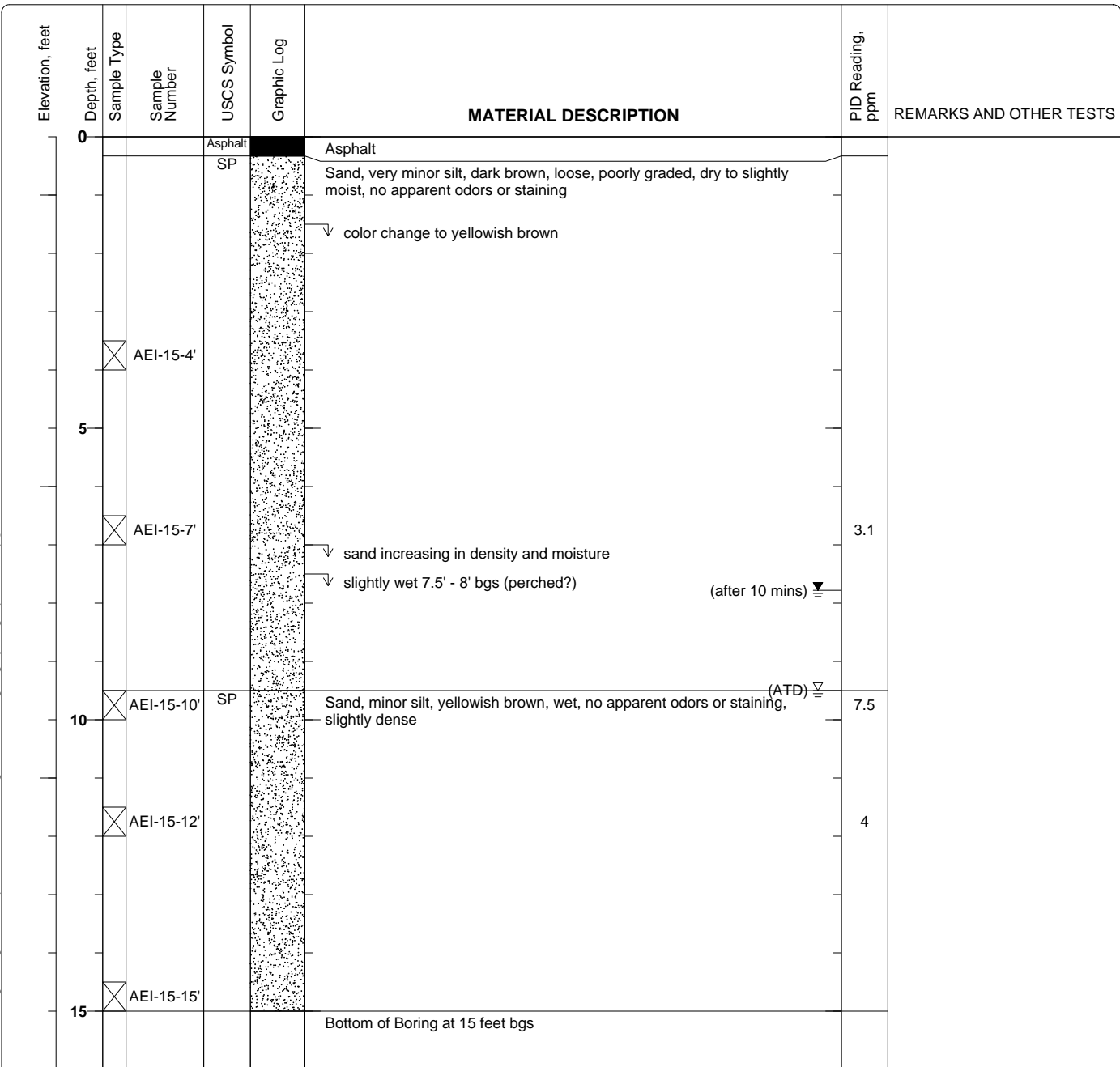
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Figure

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

Log of Boring AEI-15
 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 9.5 feet ATD, 7.78 feet after 10 mins	Sampling Method(s) Tube	Well Permit.
Borehole Backfill Neat grout cement	Location Existing Gas UST	



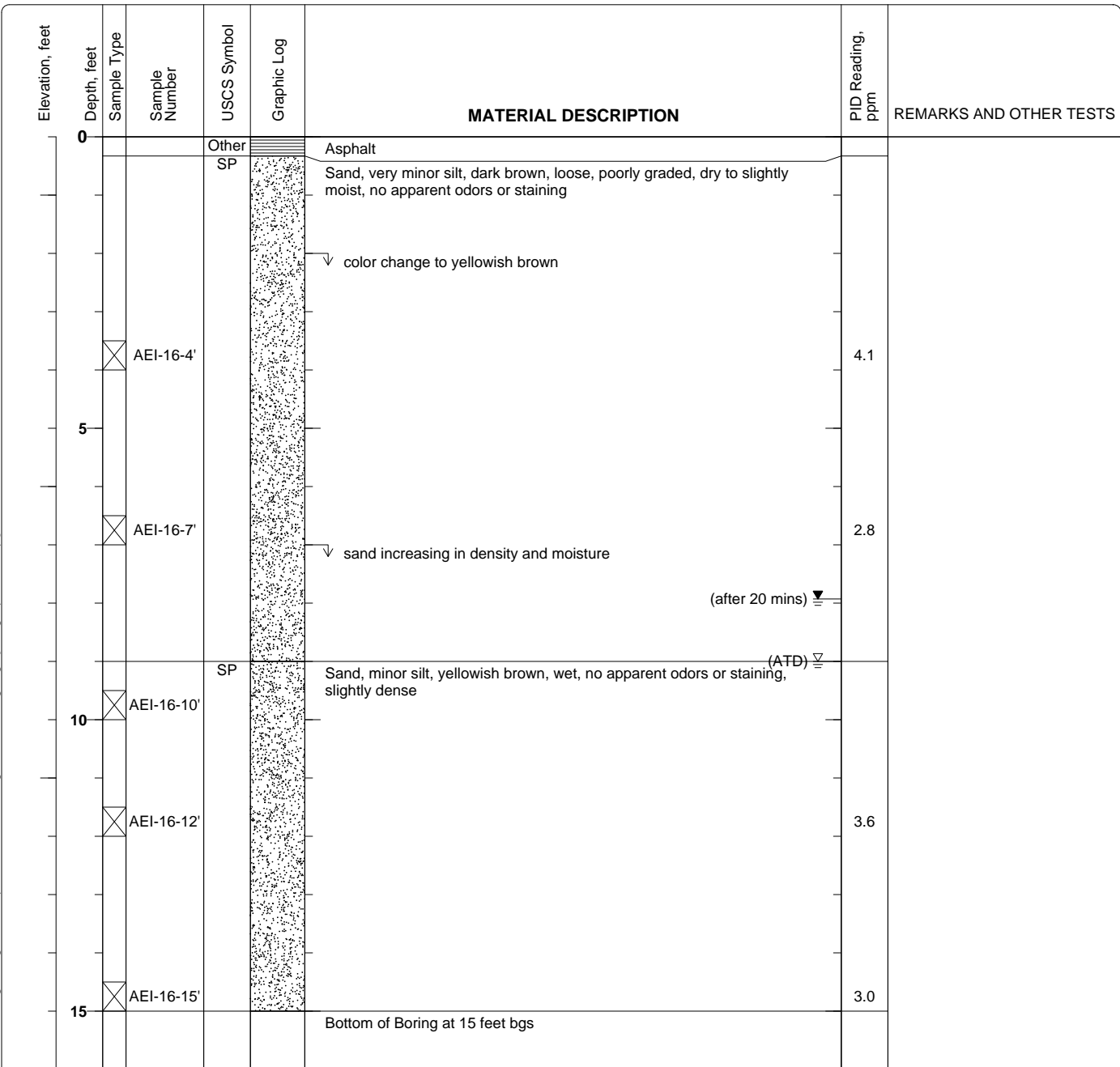
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Figure

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

Log of Boring AEI-16
 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 9 feet ATD, 7.93 feet after 20 mins	Sampling Method(s) Tube	Well Permit.
Borehole Backfill Neat grout cement	Location Existing Waste Oil UST	

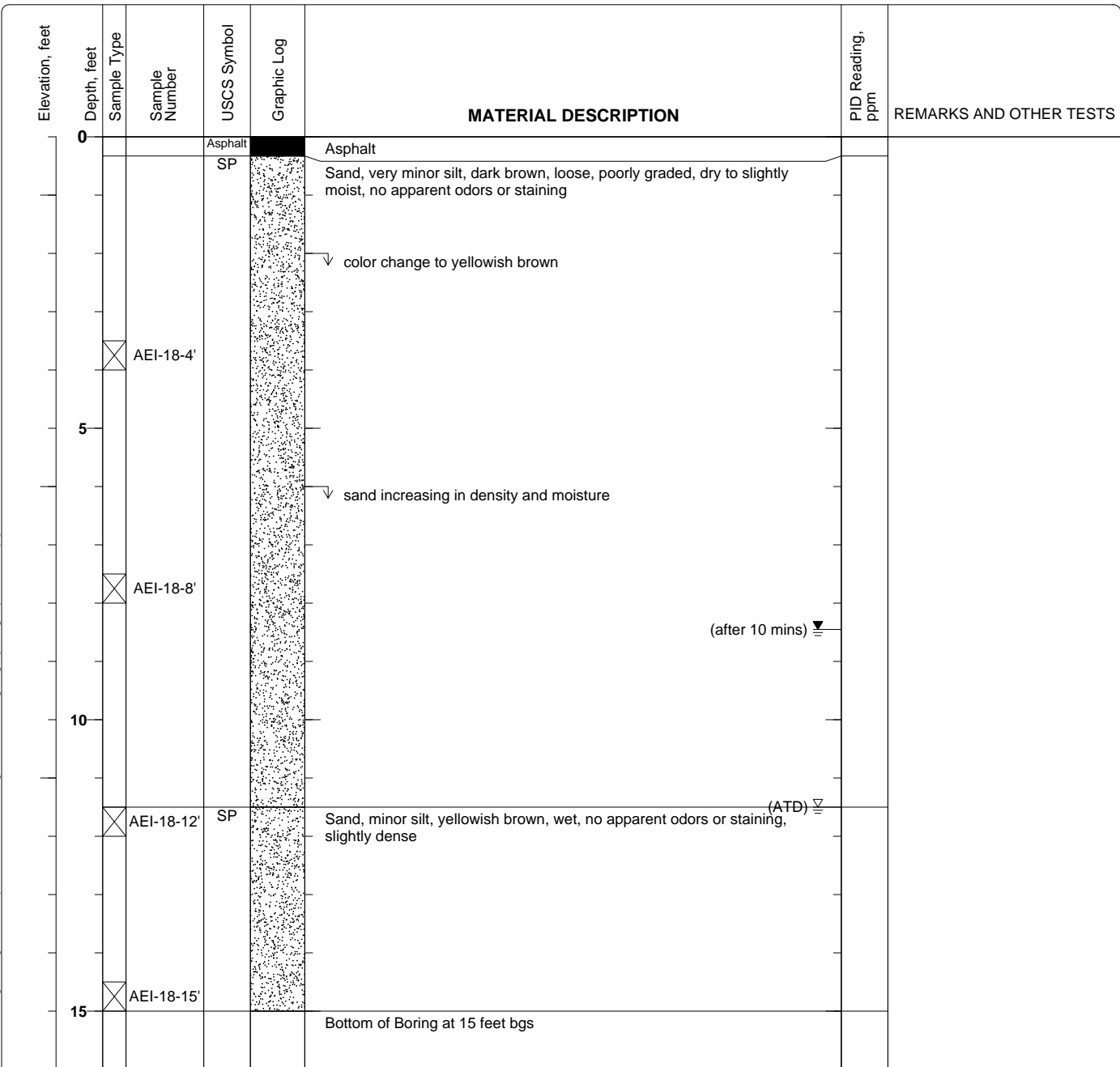


Figure

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

Log of Boring AEI-18
 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 11.5 feet ATD, 8.45 feet after 10 mins	Sampling Method(s) Tube	Well Permit.
Borehole Backfill Neat grout cement	Location Former Oil and Gas Area - Southwestern Corner	

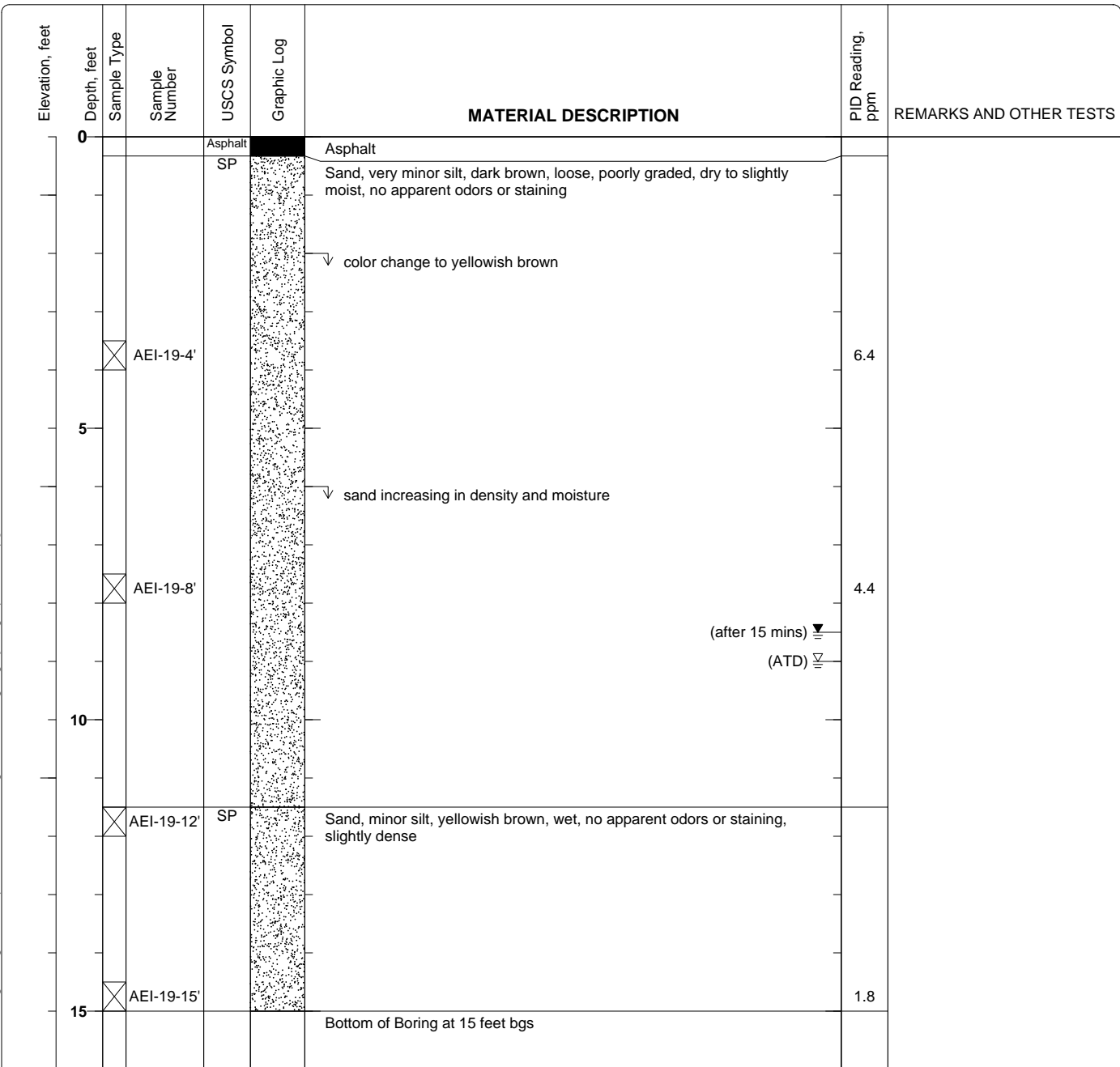


Figure

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

Log of Boring AEI-19
 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 9 feet ATD, 8.5 feet after 15 mins	Sampling Method(s) Tube	Well Permit.
Borehole Backfill Neat grout cement	Location Former Oil and Gas Area - Southwestern Corner	

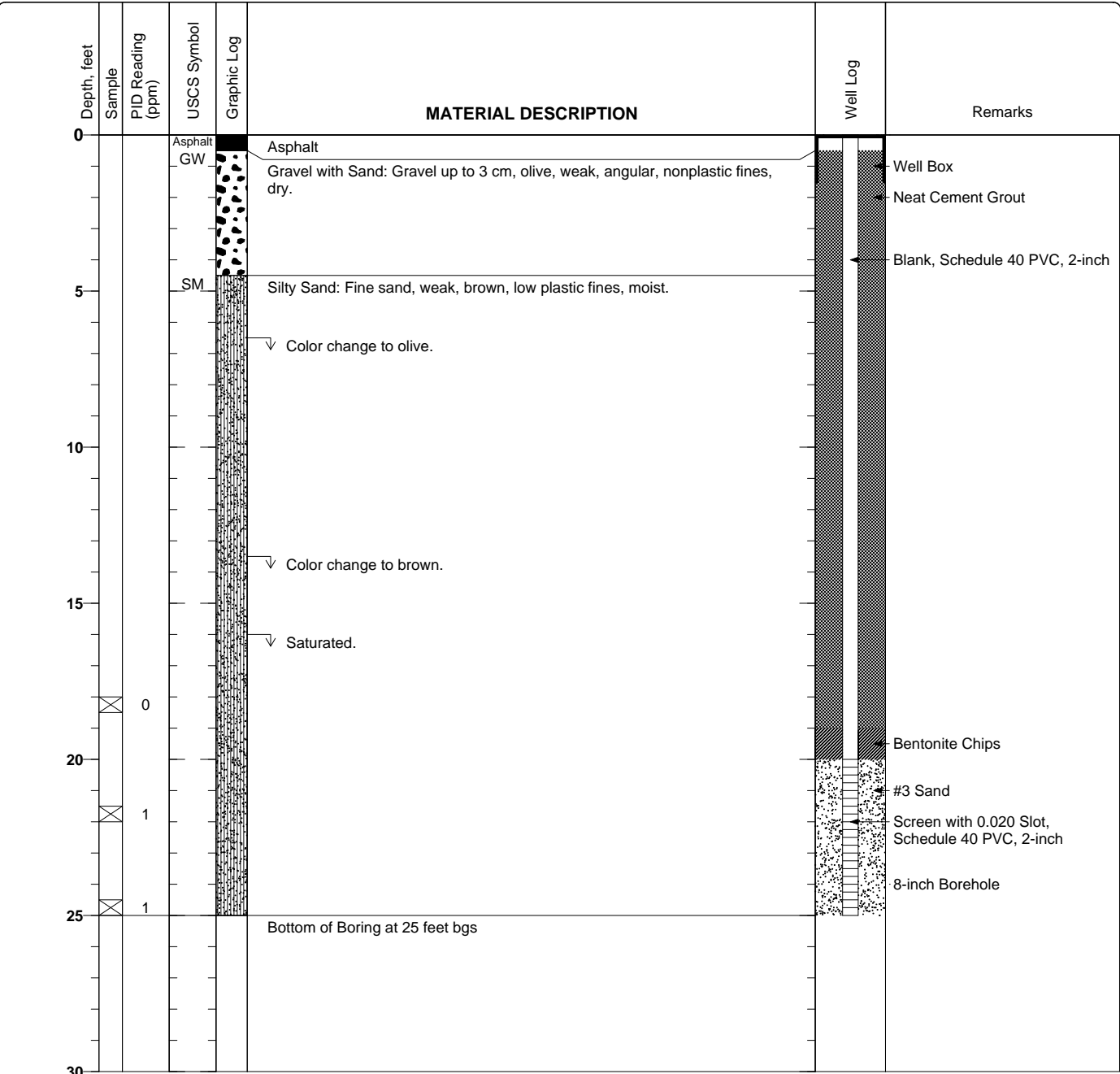


Figure

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Project: Alameda, California Project Location: 1630 Park Street, Alameda, California Project Number: 298931	<h2 style="margin: 0;">Log of Boring AS-1</h2> <p style="margin: 0;">Sheet 1 of 1</p>
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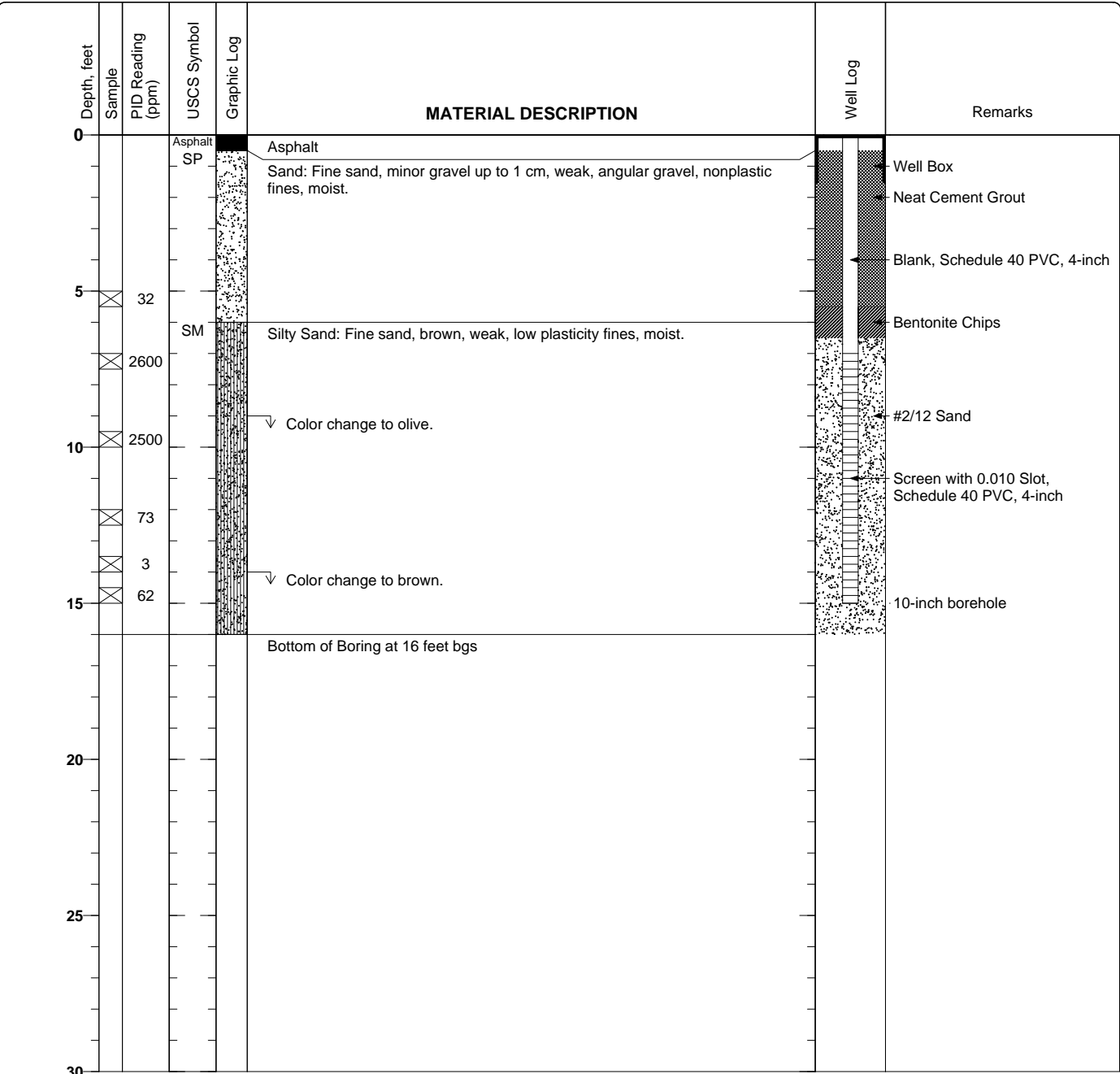
Date(s) Drilled 11/14/11	Logged By Bryan Campbell	Checked By Bryan Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 25 feet bgs
Drill Rig Type Geoprobe 6620D	Drilling Contractor RSI Drilling	Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s) Direct-Push Sampler	Hammer Data
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, California	



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Project: Alameda, California Project Location: 1630 Park Street, Alameda, California Project Number: 298931	<h2 style="margin: 0;">Log of Boring DPE-1</h2> <p style="margin: 0;">Sheet 1 of 1</p>
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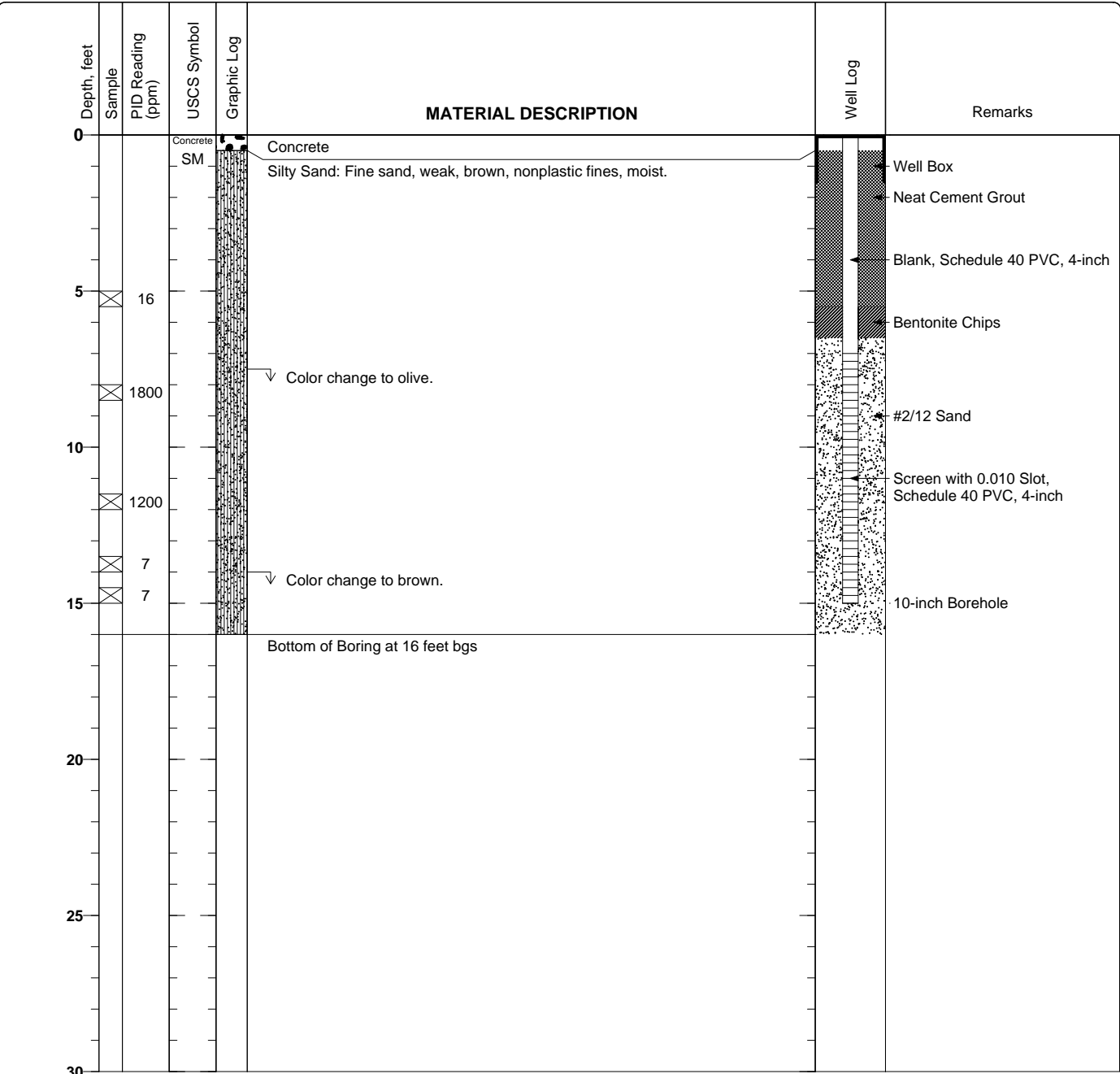
Date(s) Drilled: 11/15/11	Logged By: Bryan Campbell	Checked By: Bryan Campbell
Drilling Method: Hollow Stem Auger	Drill Bit Size/Type: 10 inch	Total Depth of Borehole: 16 feet bgs
Drill Rig Type: Geoprobe 6620D	Drilling Contractor: RSI Drilling	Surface Elevation:
Groundwater Level and Date Measured:	Sampling Method(s): Direct-Push Sampler	Hammer Data:
Borehole Backfill: Well Completion	Location: 1630 Park Street, Alameda, California	



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Project: Alameda, California Project Location: 1630 Park Street, Alameda, California Project Number: 298931	<h2 style="margin: 0;">Log of Boring DPE-2</h2> <p style="margin: 0;">Sheet 1 of 1</p>
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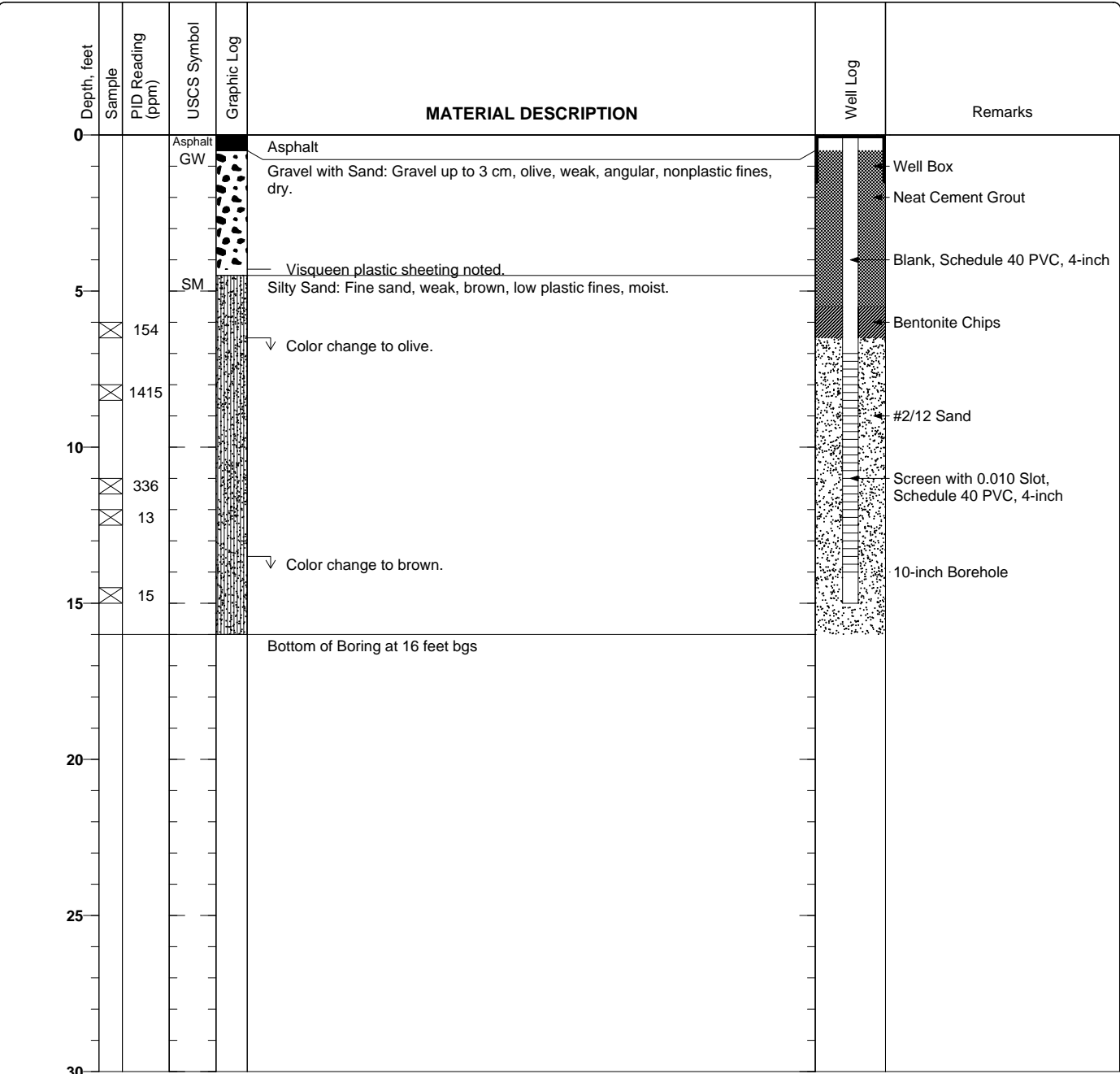
Date(s) Drilled 11/15/11	Logged By Bryan Campbell	Checked By Bryan Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 16 feet bgs
Drill Rig Type Geoprobe 6620D	Drilling Contractor RSI Drilling	Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s) Direct-Push Sampler	Hammer Data
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, California	



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Project: Alameda, California Project Location: 1630 Park Street, Alameda, California Project Number: 298931	<h2 style="margin: 0;">Log of Boring DPE-3</h2> <p style="margin: 0;">Sheet 1 of 1</p>
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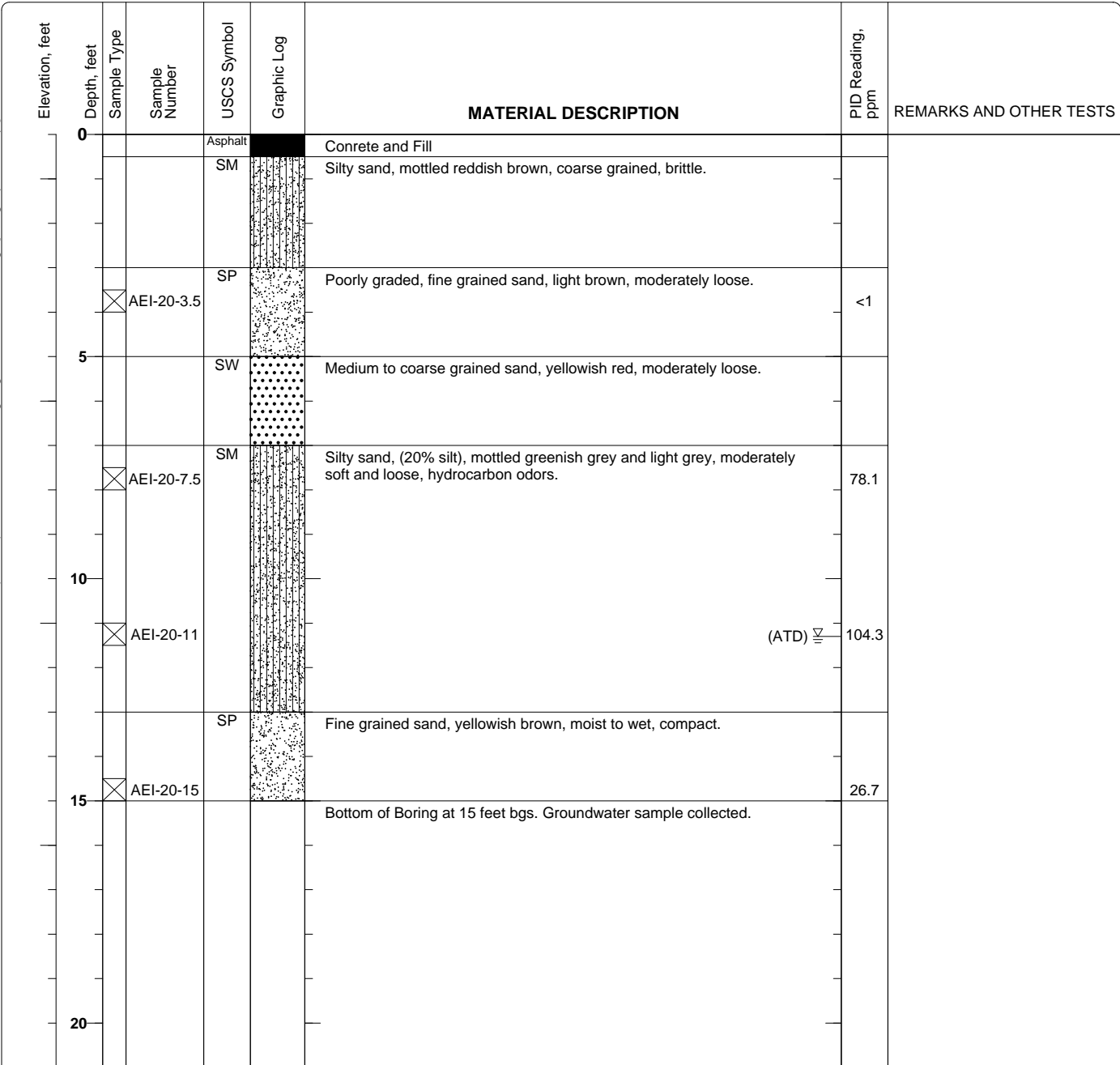
Date(s) Drilled 11/14/11	Logged By Bryan Campbell	Checked By Bryan Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 16 feet bgs
Drill Rig Type Geoprobe 6620D	Drilling Contractor RSI Drilling	Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s) Direct-Push Sampler	Hammer Data
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, California	



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		









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		Concrete 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		X	AEI-21-11			(ATD) $\frac{10.7}{10}$	61.5	
		X	AEI-21-14	SP		Sand, yellowish brown, wet, hard, friable, cohesive.		
15						Bottom of Boring at 14 feet bgs. Groundwater Sample Collected.		
20								

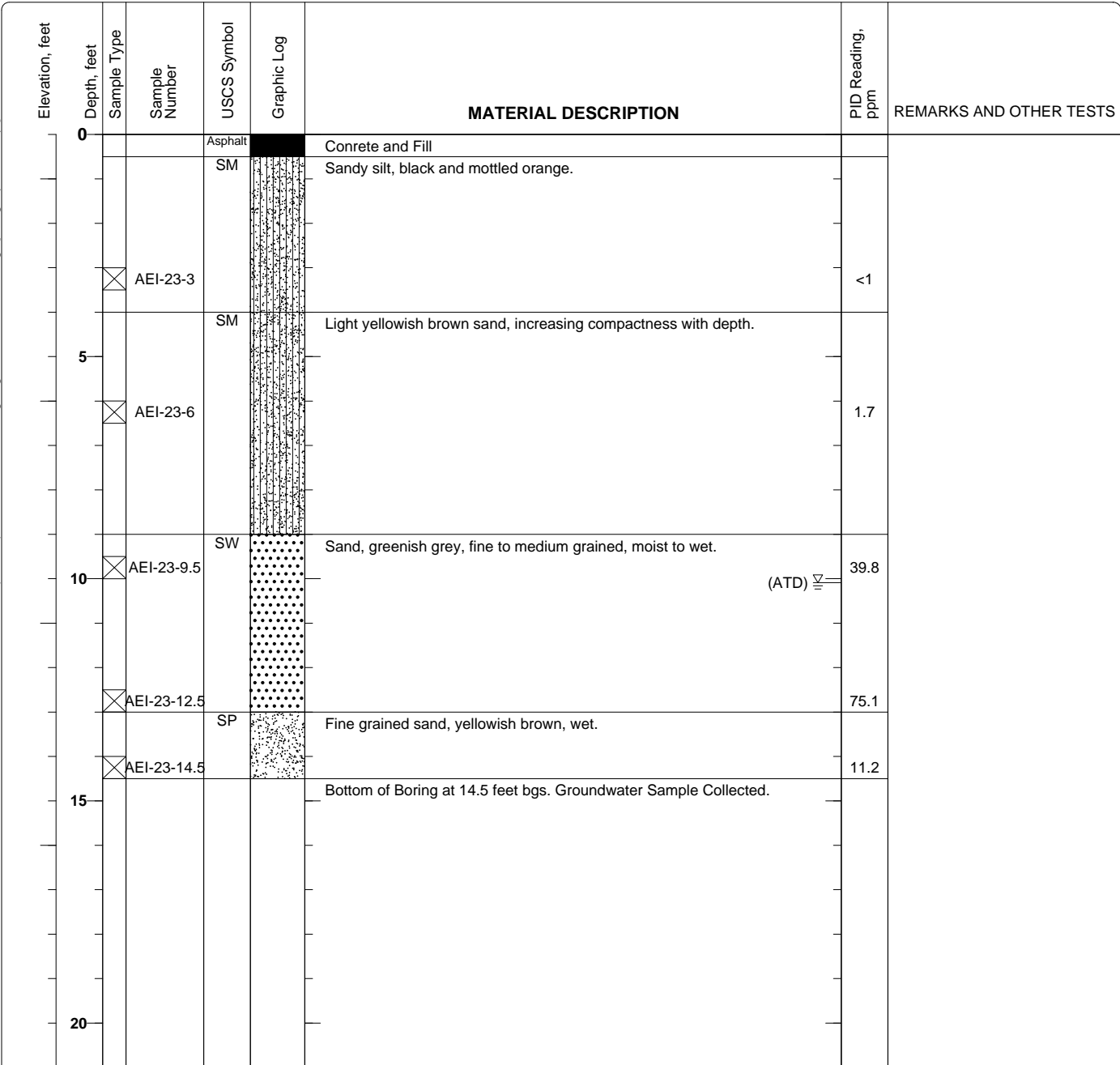
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Figure

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	









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Figure

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		Concrete and Fill		
				SM		Sandy silt, black mottled with red/orange, slightly friable, dry, cohesive.		
	5	⊗	AEI-25-4	SM		Silty sand, reddish yellowish brown, moist	<1	
		⊗	AEI-25-7.5	SP		Fine to medium grained sand, yellowish brown, moist, wet at 12 feet.	<1	
	10	⊗	AEI-25-10				23.2	(ATD) <u> </u>
		⊗	AEI-25-14	SM		Silty sand, reddish yellow, fine to medium grained, non-plastic, wet, expansive.	<1	
	15					Bottom of Boring at 15 feet bgs. Groundwater Sample Collected.		
	20							







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Figure

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		Concrete and Fill		
				SM		Silty sand, dark brown mottled with red/orange, hard, friable.		
	4.5	⊗	AEI-26-4	SM		Silty sand, yellowish brown mottled reddish yellow, cohesive, friable, moist.	<1	
	7.5	⊗	AEI-26-7.5	SM		Silty sand, yellowish brown mottled reddish yellow, cohesive, friable, moist.	<1	
	10.5	⊗	AEI-26-10.5	SP		Silty sand, dark brown, non-plastic, wet.	6.3	
	14	⊗	AEI-26-14			Bottom of Boring at 14 feet bgs. Groundwater Sample Collected.	<1	
						(ATD) ∇		








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Figure

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.		
		⊗	AEI-27-3	SM		Silty sand, reddish yellowish brown, moist.	<1	
		⊗	AEI-27-8				<1	
				SM		Sand with silt, yellowish brown.		(ATD) ∇
		⊗	AEI-27-10.5	SM		Silty sand, dark yellowish brown, non-plastic, wet, fine grained sand.	<1	
		⊗	AEI-27-14				<1	
15						Bottom of Boring at 15 feet bgs. Groundwater sample collected.		
20								

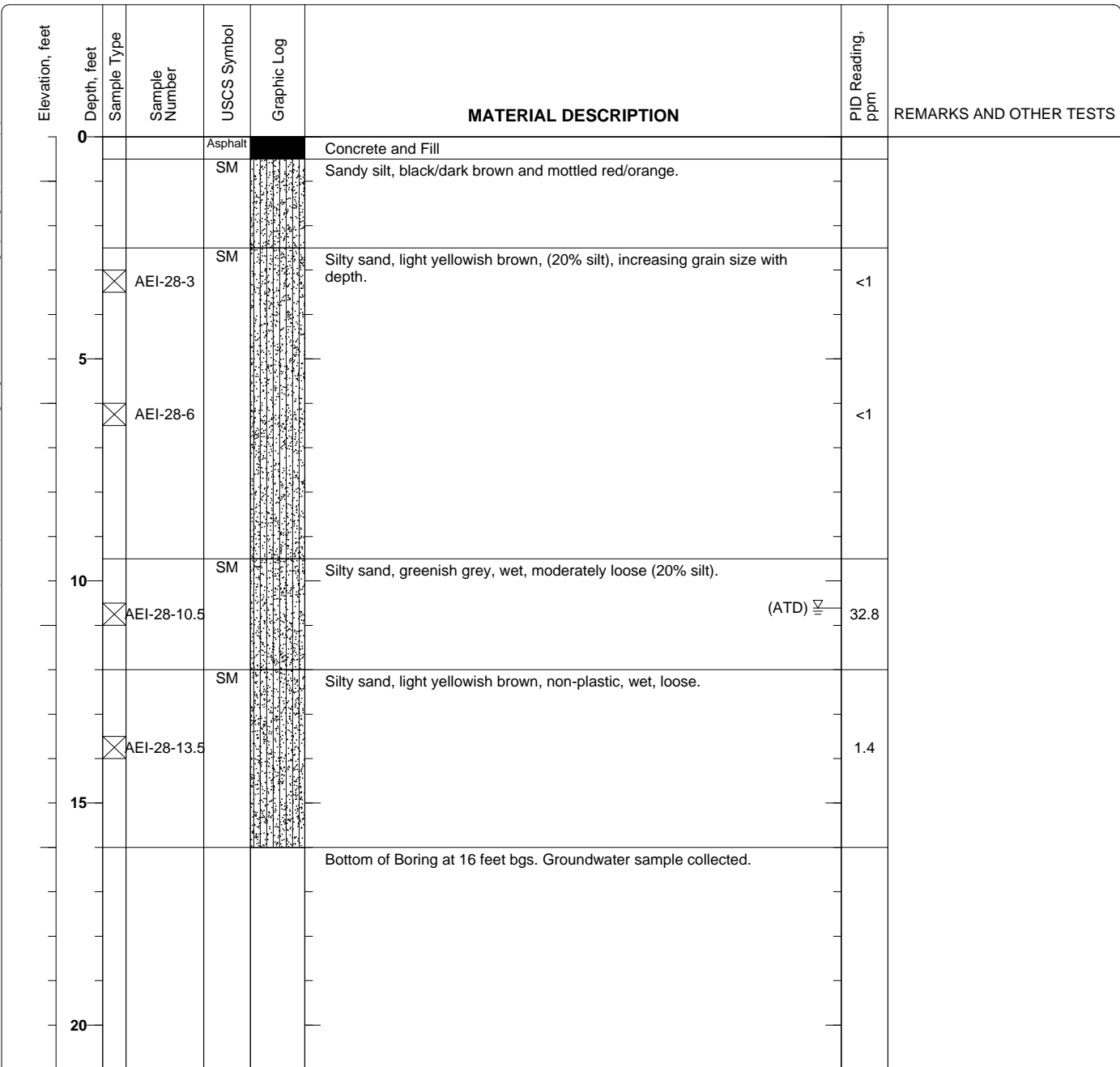
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Figure

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		

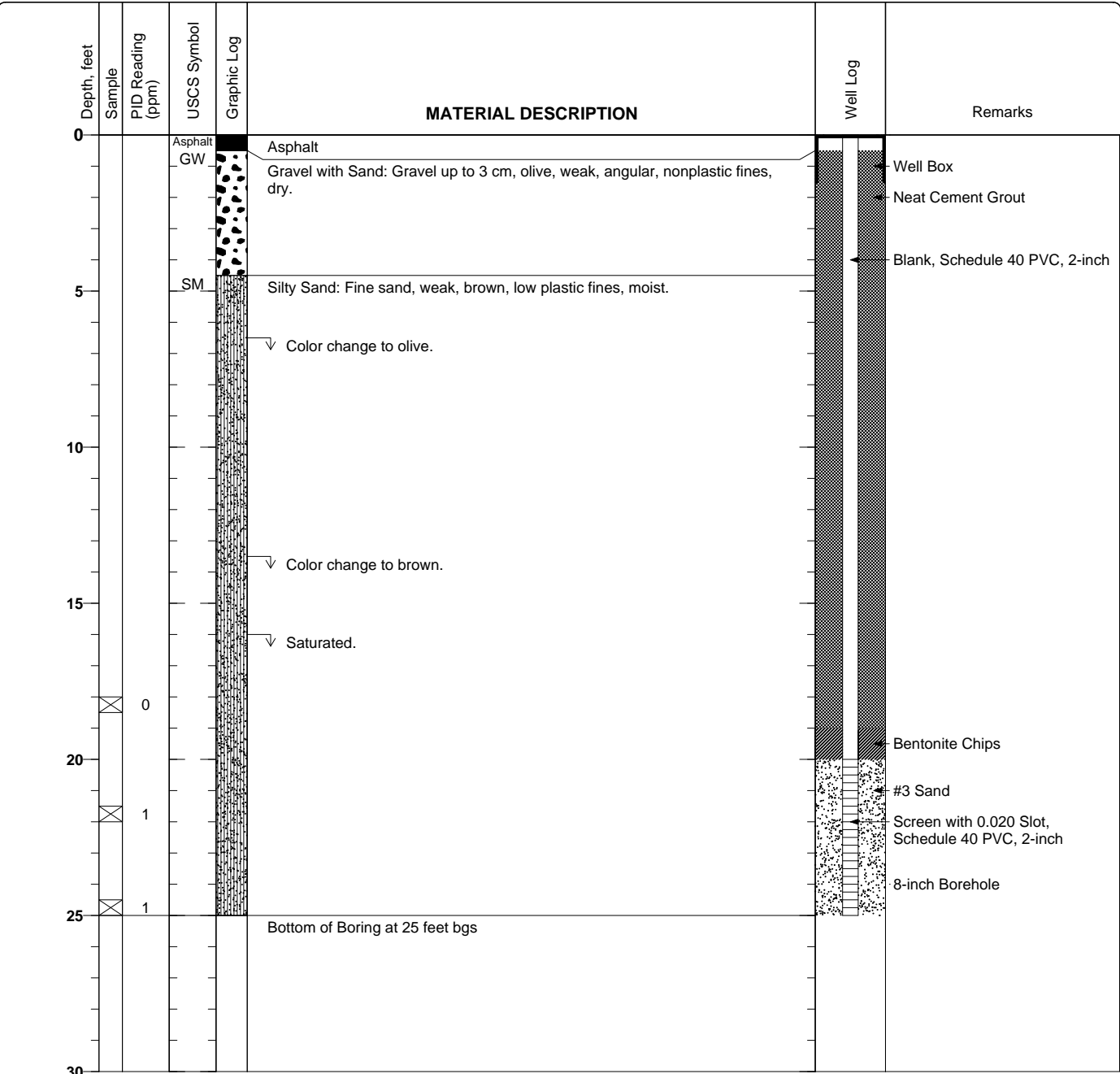


Figure

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Project: Alameda, California Project Location: 1630 Park Street, Alameda, California Project Number: 298931	<h2 style="margin: 0;">Log of Boring AS-1</h2> <p style="margin: 0;">Sheet 1 of 1</p>
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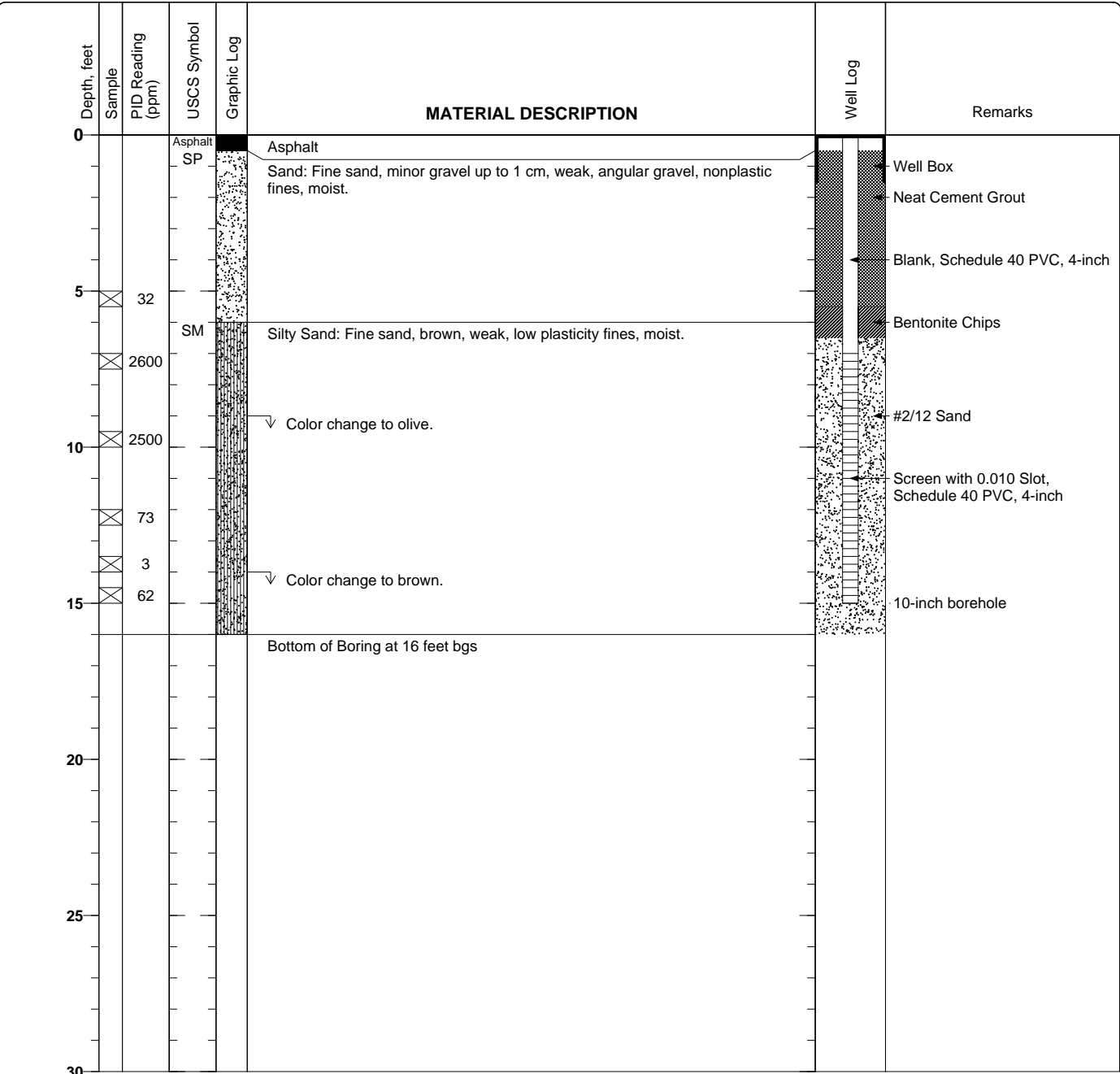
Date(s) Drilled 11/14/11	Logged By Bryan Campbell	Checked By Bryan Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 25 feet bgs
Drill Rig Type Geoprobe 6620D	Drilling Contractor RSI Drilling	Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s) Direct-Push Sampler	Hammer Data
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, California	



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Project: Alameda, California Project Location: 1630 Park Street, Alameda, California Project Number: 298931	<h2 style="margin: 0;">Log of Boring DPE-1</h2> <p style="margin: 0;">Sheet 1 of 1</p>
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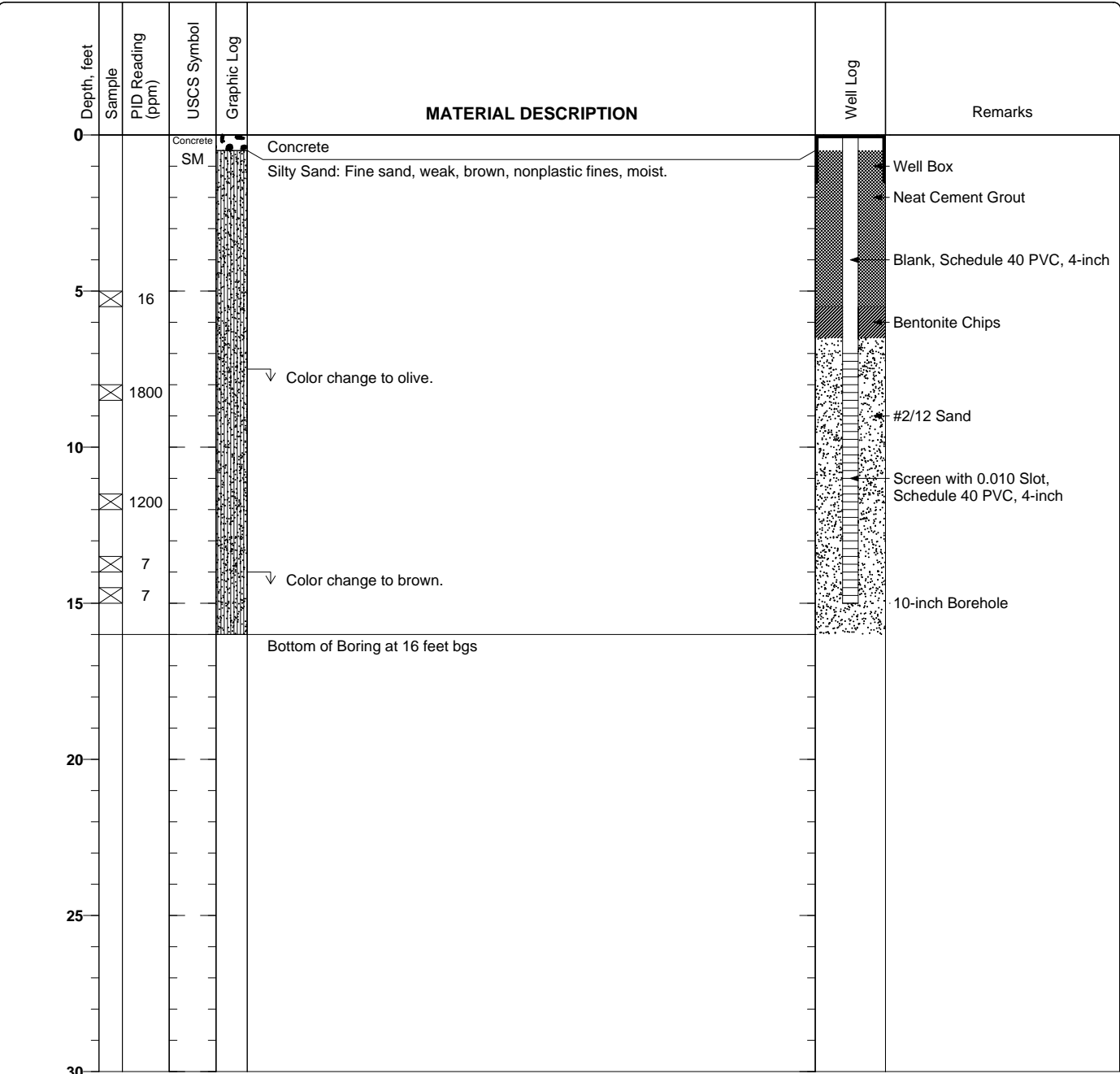
Date(s) Drilled 11/15/11	Logged By Bryan Campbell	Checked By Bryan Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 16 feet bgs
Drill Rig Type Geoprobe 6620D	Drilling Contractor RSI Drilling	Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s) Direct-Push Sampler	Hammer Data
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, California	



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Project: Alameda, California Project Location: 1630 Park Street, Alameda, California Project Number: 298931	<h2 style="margin: 0;">Log of Boring DPE-2</h2> <p style="margin: 0;">Sheet 1 of 1</p>
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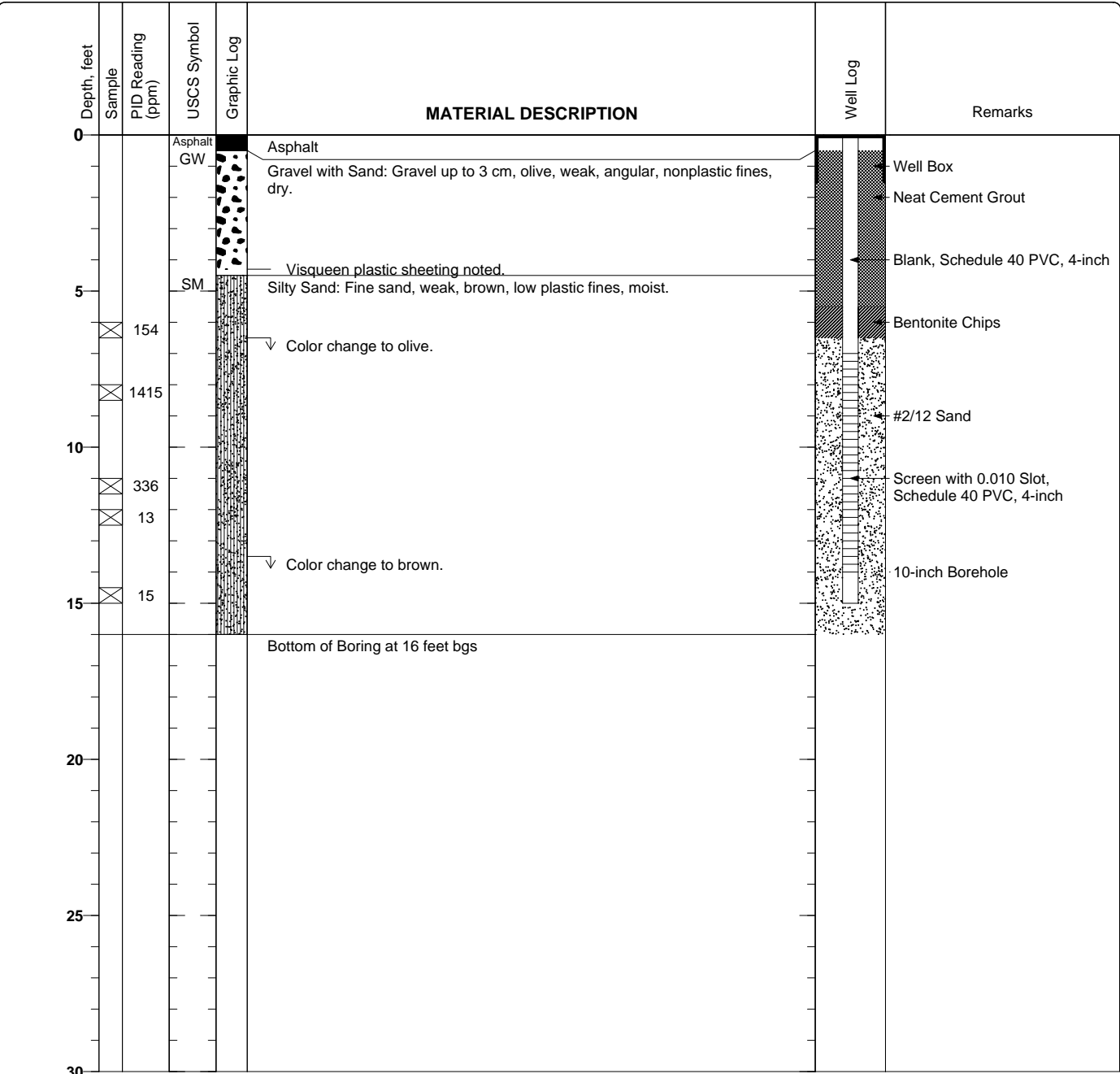
Date(s) Drilled 11/15/11	Logged By Bryan Campbell	Checked By Bryan Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 16 feet bgs
Drill Rig Type Geoprobe 6620D	Drilling Contractor RSI Drilling	Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s) Direct-Push Sampler	Hammer Data
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, California	



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Project: Alameda, California Project Location: 1630 Park Street, Alameda, California Project Number: 298931	<h2 style="margin: 0;">Log of Boring DPE-3</h2> <p style="margin: 0;">Sheet 1 of 1</p>
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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	



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	

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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					Concrete		Concrete and Fill No recovery.	
	5					SP	●●●●●●●●●●	Light yellowish brown sand, medium density.	
	10		DPE-4-7 DPE-4-9			SM	●●●●●●●●●●	Green, loose silty sand, wet, (20-30% silt), hydrocarbon odor, fine grained sand.	
	15		DPE-4-13 DPE-4-16						
	20								
	25								
	30							Bottom of Boring at 16 feet bgs	

