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September 26, 2006

**SITE SUMMARY
REPORT**

Cruise America, Inc.
796 66th Avenue
Oakland, California

Project No. 110566
ACEHS Toxics Case # RO0002449

Prepared On Behalf Of

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1.0 INTRODUCTION

AEI Consultants (AEI) has prepared this report on behalf of Cruise America Inc. (Cruise America), located at 796 66th Avenue, Oakland, California (Figure 1: Site Location Map). AEI has been retained by Cruise America to provide environmental engineering and consulting services associated with the release of gasoline from a former UST on the property. Since 2002, the release has been investigated under the regulatory oversight of Alameda County Environmental Health Services (ACEHS) under Toxics case # RO0002449.

This report has been prepared to present a summary of the investigation and remediation efforts relating to the release. As remedial efforts have significantly reduced the primary contaminant identified at the site, methyl tert butyl ether (MTBE), regulatory review of current site conditions is requested to evaluate this site for case closure.

2.0 SITE HISTORY

The site is currently occupied by Cruise America, a recreational vehicle (RV) rental facility. The property is approximately five acres in size. Currently, two buildings exist on the site, surrounded by paved vehicle storage areas. The buildings consist of an office building located on the eastern side of the property and a service building located centrally on the property. Cruise America acquired the property from McGuire Hester, a construction company, in August 1988.

2.1 Initial Investigation

In July 2001, AEI performed a Phase II investigation on the site that included advancing six (6) soil borings (SB-1 through SB-6). The investigation was performed to assess whether the soil or groundwater beneath the site was impacted in the areas of two former UST holds that were utilized by McGuire Hester. These USTs were apparently removed prior to occupancy of the site by Cruise America. The former location of these USTs holds are shown on Figure 2. Although low concentrations of Total Petroleum Hydrocarbons as gasoline (TPH-g) and diesel (TPH-d) were reported in the groundwater, high levels of Methyl tertiary-Butyl Ether (MTBE) were detected in boring SB-1.

In September of 2001, AEI advanced five (5) additional soil borings (SB-7 through SB-11) in order to determine the source of the high levels of MTBE found in SB-1. Samples collected from SB-7 and SB-8 did not contain MTBE above laboratory reporting limits. MTBE concentrations ranged from 630 micrograms per liter ($\mu\text{g/L}$) in SB-9 to 13,000 $\mu\text{g/L}$ in SB-10. These data indicated a leak in the remaining 10,000-gallon gasoline UST on the southern portion of the property as the most likely source of the MTBE.

Soil and groundwater sample analytical data from the 2001 work is presented in Tables 5 and 6, respectively.

2.2 Tank Removal

AEI removed the 10,000-gallon gasoline UST in November of 2001. Concentrations of TPH-g in four of the five soil samples ranged from 4.1 milligrams per kilogram (mg/kg) to 280 mg/kg. Concentrations of MTBE and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) were also detected in the five soil samples. The highest concentrations of MTBE and Benzene detected in the soil during the tank removal were 53 mg/kg and 13 mg/kg, respectively, detected along the southern and eastern sidewalls of the excavation at approximately 6.5 feet below ground surface (bgs). Elevated concentrations of TPH-g and MTBE were present in the groundwater sample at concentrations of 44,000 µg/L and 42,000 µg/L, respectively.

Soil and groundwater sample analytical data from the tank removal is presented in Tables 5 and 6, respectively.

2.3 Groundwater Investigation

Following removal of the tank, the Alameda County Health Care Services Agency (ACHCSA) requested further investigation of the release from the 10,000 gallon UST. On September 6, 2002, six (6) soil borings (SB-12 through SB-17) were advanced. The data from these soil borings was used to determine the placement of five (5) groundwater monitoring wells, which were installed on September 19, 2002. These five wells (MW-1 through MW-5) have been monitored on a quarterly basis since installation.

The locations of these borings and wells are shown on Figures 2 and 3. Soil and groundwater data from the September 2002 work is presented in Tables 5 and 6, respectively. Groundwater monitoring data is presented in Table 3 and 4.

2.4 Groundwater Treatment Activities

Based on the findings of the investigation and monitoring activities, the ACHCSA required that corrective action be undertaken. AEI prepared and submitted an *Interim Corrective Action Plan*, dated April 5, 2004, outlining an evaluation and scope of work to implement ozone sparging technology to begin corrective action. The approach was selected to reduce contaminant concentrations, particularly MTBE and other gasoline contaminants, in the groundwater and capillary fringe soils. A KVA twelve-point ozone sparging system was installed around the release area during May - July 2004, the locations of which are shown on Figure 4. Implementation of the system was documented in the *Interim Corrective Action Progress Report*, dated February 11, 2005, to which the reader is referred for more detailed information.

The sparge wells were placed in and around the former tank hold, between the release area and the nearby Damon Slough, and in the areas of the most highly impacted groundwater. Selected monitoring wells were sampled on a monthly basis in addition to the regular quarterly monitoring, during the first several months of operation. Additional soil sample

analytical data obtained during the well installation work is presented in Table 5 and cumulative monitoring data is presented in Tables 3 and 4.

The sparging system operated through July 2006 at which time an electrical switch overheated. Based on the significant reduction in contaminant concentrations, it was elected that several months of downtime be allowed to monitor for possible rebound. The switch has been replaced and the system operational should it be needed. Current contaminant concentrations and reductions are discussed below in Section 3.4.

3.0 SITE CONCEPTUAL MODEL

3.1 Release Occurrence

The release of gasoline apparently occurred from the former 10,000-gallon gasoline UST system that removed in November 2001. The system consisted of a 10,000-gallon double walled (steel inner tank with fiberglass outer tank) with two dispensers located at the edge of the UST on its northern side. Based on the visual inspection at the time of the removal, the UST was in good condition, with no obvious holes or other structural failures. Based on this, it could be assumed that the release occurred for a failure in the piping or dispensers. The time and duration of the release is not known, nor is the quantity of product released.

Based on the shallow depth to groundwater (4 to 6 feet), the release migrated downward and impacted shallow groundwater. Impacted soil has been limited to directly around the UST and within the capillary fringe just above the water table. No free phase product has been observed. Although gasoline range hydrocarbons and BTEX have been detected immediately surrounding the former UST system, their overall low concentrations compared to MTBE suggests that rapid natural attenuation of TPH-g and BTEX had occurred, leaving residual high MTBE concentrations. The dissolved phase MTBE plume spread generally in a northerly direction from the UST hold.

3.2 Geology and Hydrogeology

The site is located at an elevation approximately 10 feet above mean sea level (msl). The Damon Slough is located approximately 150 feet south of the former UST location. The site is level, and the local topography slopes very gently to the southwest. The surface sediments at the site are mapped as Holocene natural levee and basin deposits (Qhl and Qhb, OF 97-97, E.J. Helley and R.W. Graymer). The Natural Levee Deposits (Holocene) are described as “Loose, moderately to well-sorted sandy or clayey silt grading to sandy or silty clay. The Basin Deposits (Holocene) are described as “Very fine silty clay to clay deposits occupying flat-floored basins at the distal edge of alluvial fans adjacent to the bay mud (Qhbm)”.

The top 3 to 6 feet of soils appears to consist of imported fill of varying gravels, sand, and clay with brick and wood debris encountered locally. Beneath this fill, apparently native sediments encountered consisted of sandy and gravelly clays to approximately 7 to 10 feet below ground surface (bgs), underlain by black clay with thin sand beds. Gravel content varies, but generally decreased with depth. Groundwater has been observed at the time of drilling soil borings at between approximately 5 and 13 feet bgs. Soil boring SB-17 was advanced to a depth of 50 feet bgs, and revealed an apparent aquitard, consisting of stiff sandy clay from 29 to 45 feet bgs. Below this clay, saturated well-graded gravelly sand was encountered to boring termination (50 feet bgs).

Water level measurements collected since monitoring began have revealed that the water table exists at between 4 and 6 feet below ground surface. Based on these measurements, it appears that groundwater beneath the site generally flows in a southeasterly direction, with a hydraulic gradient of 10^{-2} to 10^{-3} feet/feet. This flow direction is consistent with information AEI reviewed for a site on the north side of 66th Avenue. Despite these flow direction measurements, the MTBE plume appears to have migrated primarily in a northerly direction from the former UST location. MW-2 and MW-3, located south and southeast of the UST hold (apparently down-gradient) have been relatively free of MTBE. Groundwater in these wells has been measured to have significantly higher conductivity, indicative of salt water, which may be acting to retard the spread of MTBE or inhibiting the flow of groundwater in the expected flow direction.

3.3 Well Survey

The Department of Water Resources (DWR) performed a well survey of all production wells within 2,000 feet of the site in August 2002. The survey was requested to identify whether there are wells that represent possible vertical conduits for downward migration of site contaminants from shallow groundwater into deeper aquifer(s) and to identify whether active groundwater use is occurring which could be impacted by this release. This survey located 12 well drillers' reports. From these reports, eight wells were located. The remaining three reports are from unknown locations including nine test holes at the Continental Can Company, an analysis of incrustation solids, and a 1,025 foot deep well for the Santa Cruz Fruit Packing Company. In addition to the information gathered from the DWR survey, Norfleet's report *Groundwater Study and Water Supply History of the East Bay Plain, Alameda and Contra Costa Counties, CA*, dated June 15, 1998, provided information on the Damon and Fitchburg well groups, which were historically used as a municipal water supply. Their exact locations are unknown but the Damon field was located approximately 1000 feet east of the site and the Fitchburg field in the area of the Oakland Coliseum, to the south of the site on the other side of Damon Slough. Figure 1 shows the locations of all wells identified in relation to the study site. The well data is summarized in the table below.

Exhibit 1: Nearby Wells

Location	Map ID #	Distance (feet)	Direction	Depth (feet)	Screen Interval	Use
Fitchburg well group (20 wells?)	1	~ 1,000	Southeast	NA	NA	Municipal
Damon well group	2	~ 1,000	East	NA	NA	Municipal
American Brass & Iron Foundry	3	3,325	Southeast	495	450-495	Industrial
EBMUD	4	3,040	Northwest	30	5-30	Test Well
PG&E	5	3,325	North	120	NA	NA
PG&E	6	2,280	North	120	NA	NA
Coliseum OW-2	7	2,280	Southeast	82.5	62-82	Observation
Coliseum OW-03A	8	1,710	Southeast	82.5	62-82	Observation
Coliseum OW-5B	9	1,140	Southeast	102	92-102	Observation
Coliseum OW-06A	10	1,330	South	98	77.5-97.5	Observation
Coliseum OW-7	11	1,140	South	72.4	52-72	Observation

NA – Information not available Distances and direction from the site are approximate

The two municipal well groups are the Damon and Fitchburg well groups which have been inactive for many decades. The exact locations and screen intervals of wells in both areas remain unknown. Based on the suspected location and distance of release at the site in relation to these well fields, they are not expected to represent preferential vertical conduits for contaminants at the site.

The only other production well (#3) at the American Brass & Iron Foundry is located over 3000 feet from the site and the EBMUD and PG&E wells are 2000 to over 3000 feet away. Based on these distances from the site, they are not expected to be threatened by this release or act as preferential vertical conduits. The remaining wells are located south of the site at the Coliseum, at least 1000 feet away. Based on the results from monitoring wells MW-2 and MW-3 and the presence of Damon Slough, which is a hydraulic barrier for shallow groundwater movement between the site and the Coliseum, these observation wells are not expected to be impacted by this release and would not likely act as a vertical conduit for shallow impacted groundwater at the site.

In summary, based on the well survey, none of the identified wells appear to risk acting as preferential vertical conduits for migration of site contaminants nor does there appear to be active use of groundwater in the area that would be threatened by this release.

3.4 Recent Contaminant Concentrations

The sparging of ozone has been very effective at reducing contaminant concentrations. MTBE concentrations have decreased substantially since startup in wells MW-1, MW-4, and MW-5. Overall, TPH-g and BTEX concentrations have been reduced to very low to non-detect levels in all wells. MTBE and TBA decreased significantly in MW-1, MW-4, and MW-5. Based on the most recent monitoring event (using EPA 8260), MTBE has been

reduced in well MW-1 to 5.3 µg/L from a high of 20,000 µg/L; to 4.1 µg/L from a high of 20 µg/L in well MW-2; to 0.67 µg/L from a high of 14 µg/L in well MW-3; to 66 µg/L from a high of 2,100 µg/L in MW-4; and to 24 µg/L from a high of 19,000 µg/L in well MW-5. In addition, TPH-g and Benzene have been reduced to non-detect levels in all five of the wells.

MTBE concentrations have decreased in wells MW-1, MW-4 and MW-5 by approximately 99%, 97%, and 99%, respectively, between July 7, 2004 and July 11, 2006, using EPA method 8260B data. The decrease of MTBE in these wells is illustrated in Figure 7. The appearance of TBA, which is an intermediate degradation product of MTBE oxidation, in MW-1, MW-4, and MW-5, is an added indicator of MTBE degradation.

4.0 COMPARATIVE RISK EVALUATION

The following comparative risk evaluation has been made in an effort to help determine the potential risk posed by remaining contaminants in the groundwater. The most recent site specific analytical data is compared with environmental screening level (ESL) values presented in the RWQCB document *Screening for Environmental Concerns at Site with Contaminated Soil and Groundwater*, February 2005. The ESLs are risk-based values that have been prepared to evaluate whether a particular contaminant presents possible threat to human health or the environment.

The highest detected concentrations of contaminants of concern (COCs) in groundwater are compared against the screening levels for the following exposure routes: gross contamination ceiling values where groundwater is a current source of drinking water and not a drinking water source, aquatic toxicity, drinking water toxicity, and vapor intrusion from groundwater. A summary of the screening levels and site concentrations are presented below.

5.1 Contaminants of Concern

The primary remaining contaminants of concern detected in groundwater are MTBE and TBA. Maximum concentrations of MTBE and TBA, as well as TPH-g and BTEX (benzene, toluene, ethylbenzene, and total xylenes), detected during the most recent monitoring event (07/11/2006) are summarized in the following table.

Contaminant	Well	Maximum Detected (7/11/06) (µg/L)
TPH-g	All	<50
Benzene	All	<0.5
Toluene	MW-1	2.8
Ethylbenzene	All	<0.5
Xylenes (Total)	MW-3	1.1
MTBE (by 8260B)	MW-4	66
TBA	MW-5	1,200

5.2 ESL Comparison

The recent maximum concentrations of the detected contaminants are presented in the following table along with the five ESL values for the exposure pathways outlined above.

Contaminant	Maximum Detected	Volatilization ESL *	Ceiling Value (NDW) ***	Aquatic Toxicity **	Ceiling Value (DW) **	Drinking Water Toxicity **
MTBE	66	80,000	1,800	8,000	5.0	13
Toluene	2.8	530,000	400	130	40	150
Xylenes	1.1	160,000	5,300	100	20	1,800
TBA	1,200	-	50,000	18,000	50,000	12

All values in micrograms per liter (µg/l)

All ESL from RWQCB (Feb 2005)

* From Table E-1a (high-permeability soil selected for higher degree of protection)

** From Tables F-1a *** From Table F-1b

NDW = non-drinking water, DW = drinking water

ESL values shown in strikethrough (~~strikethrough~~) are from incomplete pathways.

ESL values shown in bold (**bold**) are the lowest for each contaminant, considering all potentially complete exposure pathways.

The groundwater in the area of the site is considered of beneficial use in accordance with the RWQCB Basin Plan and although not formally de-designated, the shallow impacted groundwater around the fuel release area is of low quality (brackish to saline) due to the proximity to the tidal slough and is not present in a high yielding formation. Based on this, the Drinking Water Toxicity and Drinking Water Ceiling Value ESLs are considered overly conservative for this site. Due to the proximity of the release to the Damon Slough, the aquatic toxicity ESL value would be protective of aquatic receptors. In addition, as is currently required, the volatilization ESL is considered potentially complete. The non-drinking water ceiling value will also be considered relevant as representative of nuisance conditions. The lowest ESL for each contaminant is shown in bold in the table above.

The residual contaminant concentrations do not exceed the lowest of the ESL values of the potentially complete exposure pathways. All site concentrations are over one to several orders of magnitude lower than these ESL values. Based on this, no indication of a potential for vapor intrusion from groundwater, of groundwater discharge to nearby aquatic habitat, or of exceeding gross contaminant levels for groundwater are present around the former release area.

5.0 SUMMARY AND CONCLUSIONS

This report has been prepared to summarize the environmental conditions relating to the release from the former gasoline UST system, including the following:

- A discussion of previous environmental investigations and remediation activities
- Complete set of data collected, including sampling locations, monitoring, and analytical data
- Site geology and environmental setting
- A discussion of the release occurrence
- Comparison of current groundwater conditions to relevant screening levels (ESLs)

Groundwater treatment activities consisting of approximately 2 years of ozone sparging have significantly reduced dissolved phase contaminants. Recent groundwater monitoring results revealed concentrations of contaminants below relevant ESLs for vapor intrusion, aquatic toxicity, and gross contaminant levels. No nearby wells were identified that are considered at risk for either being impacted by the release or that could act as vertical conduits for contaminant migration.

Review of this case by the ACEHD is requested so that the formal case closure process for this site can begin.

6.0 REFERENCES

AEI Phase II Subsurface Investigation Report, August, 2001

AEI Monitoring Well Installation Report, November 11, 2002

AEI Interim Corrective Action Plan, dated April 5, 2004

AEI Interim Corrective Action Progress Report, February 11, 2005

Alameda County Environmental Health Services, File # RO0002449, Letter dated May 29, 2002

SF Bay California Regional Water Quality Control Board, *Screening For Environmental Concerns At Sites With Contaminated Soil And Groundwater*, February 2005

Norfleet Consultants, *Groundwater Study and Water Supply History of the East Bay Plain, Alameda and Contra Costa Counties, CA*, June 15, 1998

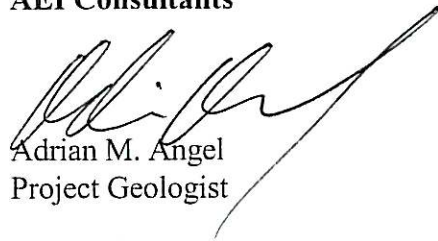
7.0 SIGNATURES


This report has been prepared by AEI on behalf of Cruise America relating to the release of petroleum hydrocarbons on the property located at 796 66th Avenue in the City of Oakland, Alameda County, California. The discussion rendered in this report was based on field investigations and laboratory testing of material samples. This report does not reflect subsurface variations that may exist between sampling points. These variations cannot be anticipated, nor could they be entirely accounted for, in spite of exhaustive additional testing. This report 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), 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. All specified work was performed in accordance with generally accepted practices in environmental engineering, geology, and hydrogeology and were performed under the direction of appropriate registered professional(s).

Please contact either of the undersigned with any questions or comments at (925) 283-6000.

Sincerely,
AEI Consultants


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Alameda, CA 94502

FIGURES



TN \star /MN
15°

0 0.5 1 MILE
0 1000 FEET 0 500 1000 METERS

Map created with TOPO!® ©2002 National Geographic (www.nationalgeographic.com/topo)

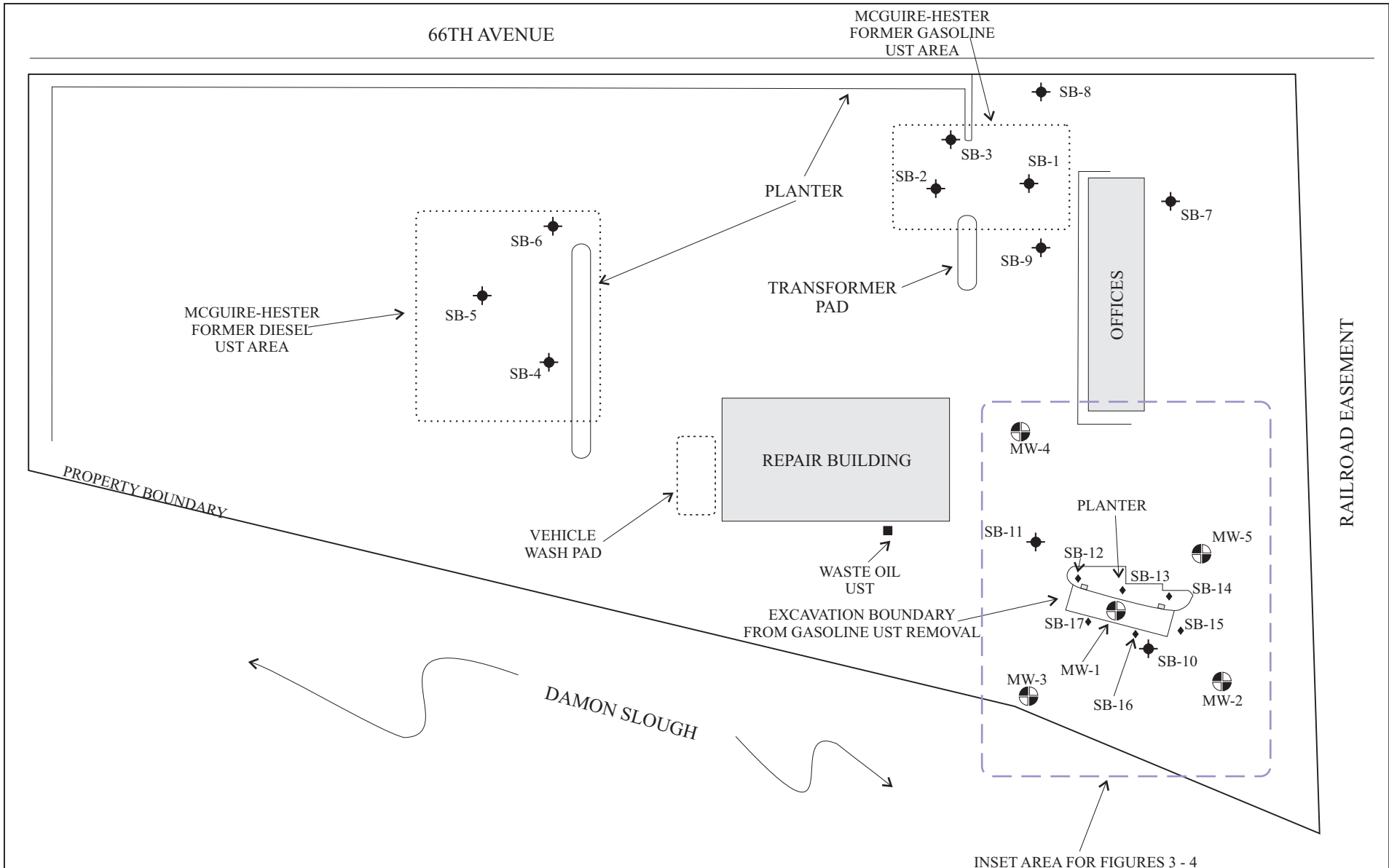
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Site Location Map Showing Nearby Wells

796 66th Avenue
Oakland, CA

FIGURE 1
Job No: 110566



AEI Consultants
2500 CAMINO DIABLO BLVD, STE 200, WALNUT CREEK, CA

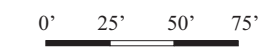
Property Map

796 66th AVENUE OAKLAND, CALIFORNIA	FIGURE 2 AEI PROJECT NO 110566
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- SB-X ◆ LOCATION OF BORINGS
ADVANCED 7-9/2001

- MW-1 ⊕ LOCATION OF MONITORING
WELLS INSTALLED 9/2002

- SB-X ◆ LOCATION OF BORINGS
ADVANCED 9/2002

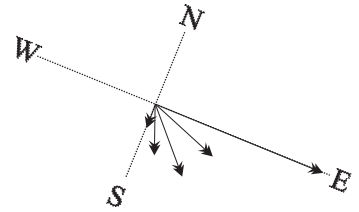


INSET AREA FOR FIGURES 3 - 4

RENTAL OFFICE

Rose Diagram

1/8" = 1 monitoring event



MW-4

SB-11

MW-5 B'

PLANTER

A

SB-12

Former Dispenser

UST EXCAVATION BOUNDARY

MW-1

SB-13

PLANTER

SB-14

Former Dispenser

SB-17

SB-16

SB-10

SB-15

MW-3 B

MW-2 A'

FENCE

LEGEND

◆ Soil Boring: July & Sept. 2001

◆ Soil Boring: Sept. 2002

⊕ Monitoring Wells

- - - Fence Line



0' 10' 20'

SCALE: 1 in = 20 ft

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2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK, CA

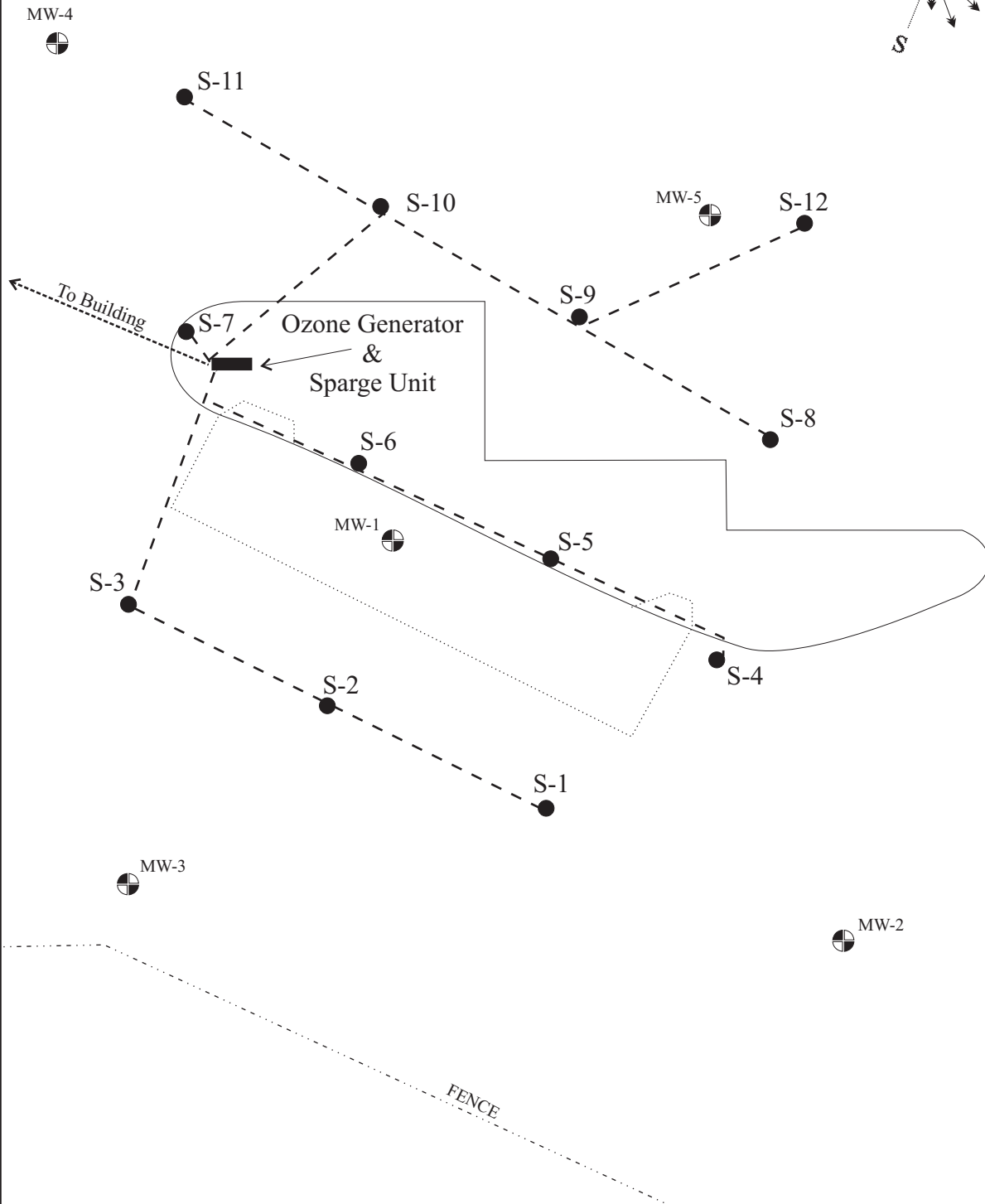
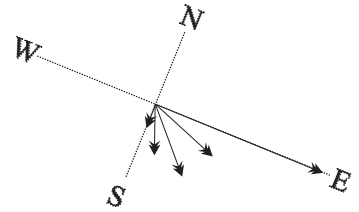
SITE PLAN

796 66TH AVENUE
OAKLAND, CALIFORNIA





FIGURE 3
AEI PROJECT NO 110566

RENTAL OFFICE

Rose Diagram
1/8" = 1 monitoring event



LEGEND

-  Monitoring Wells
-  Sparge Well Points
-  Sparge Lines and Conduit
-  Electrical Conduit



0' 10' 20'
SCALE: 1 in = 20 ft

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2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK, CA

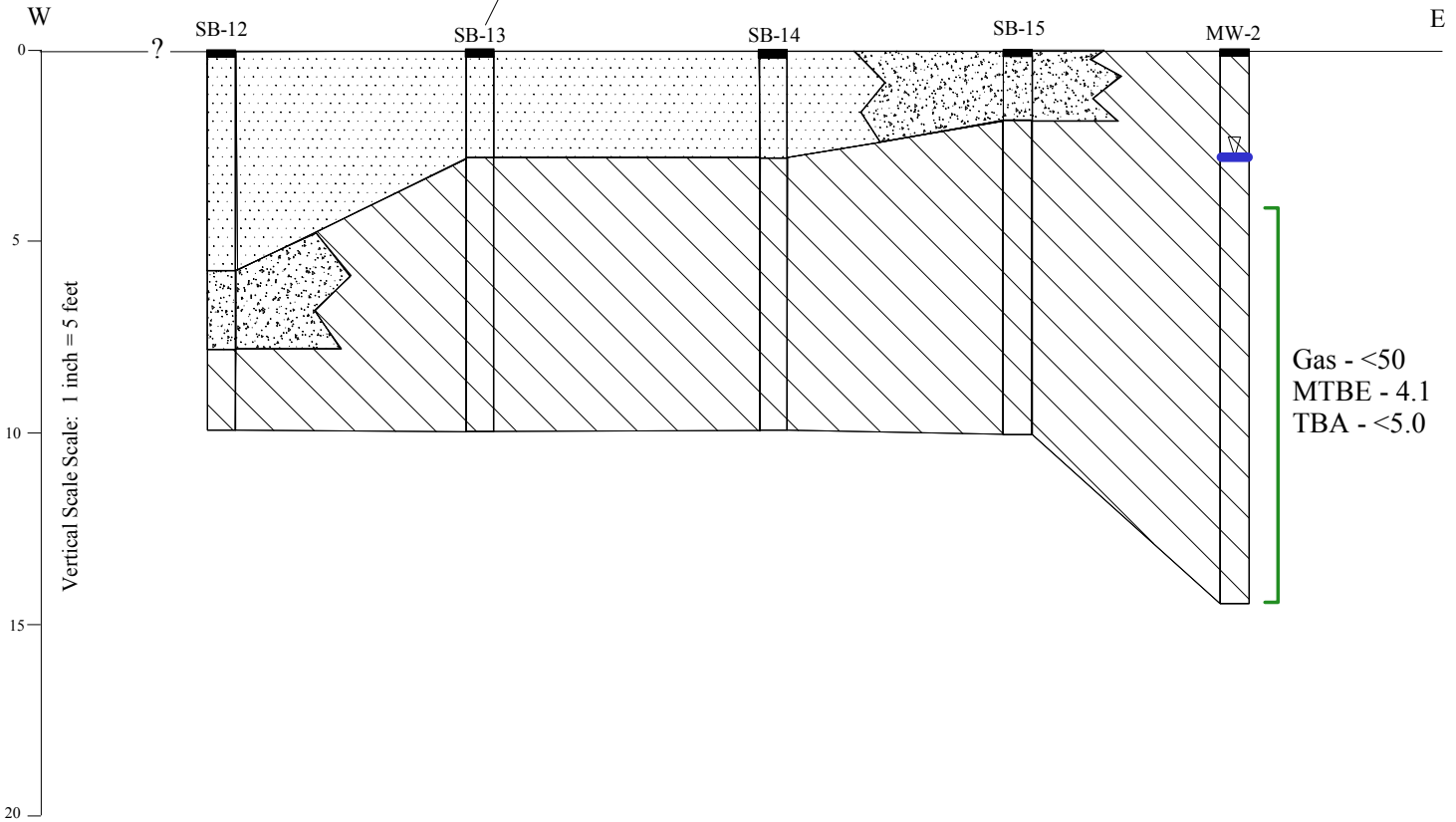
SPARGE WELL LOCATIONS

796 66TH AVENUE
OAKLAND, CALIFORNIA






FIGURE 4
AEI PROJECT NO 110566

A

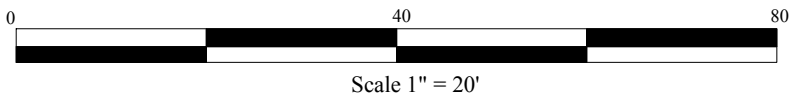
A'



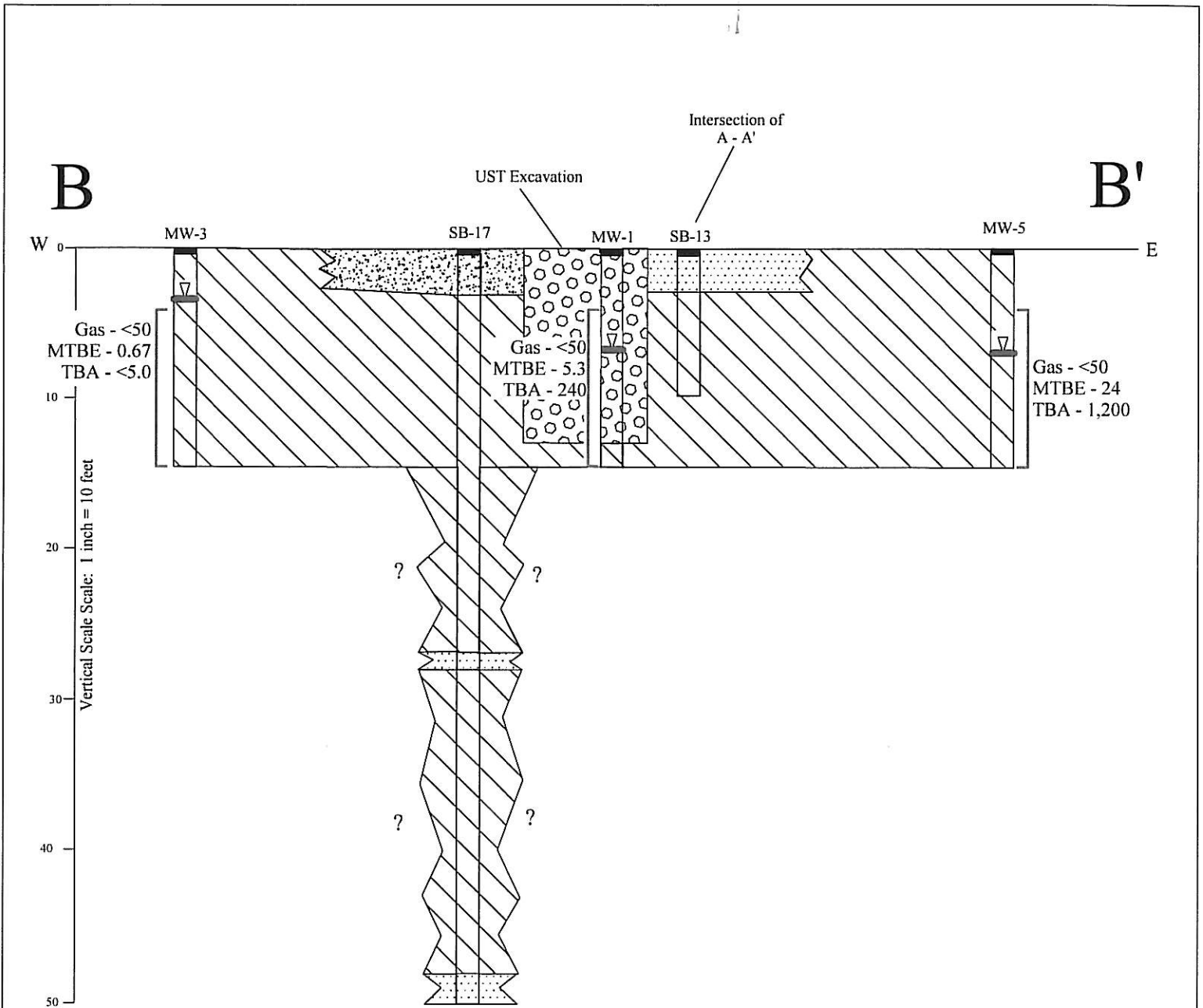
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



-  Silty - Sandy Clay
-  Clayey - Sandy Gravel
-  Sand
-  Groundwater elevation as of 7/11/06
-  Well Screen Interval

*Values represent groundwater concentrations in ug/L as of 7/11/06
 MTBE - methyl tertiary butyl ether
 TBA - tertiary butyl alcohol

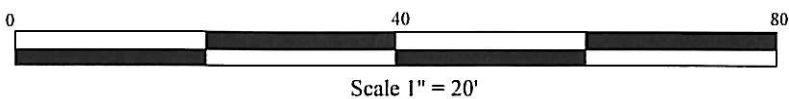


AEI CONSULTANTS 2500 CAMINO DIABLO, STE. 100, WALNUT CREEK, CA	
A - A' Fence Diagram	
796 66th Avenue Oakland, CA	Figure 5 PROJECT NO. 110566

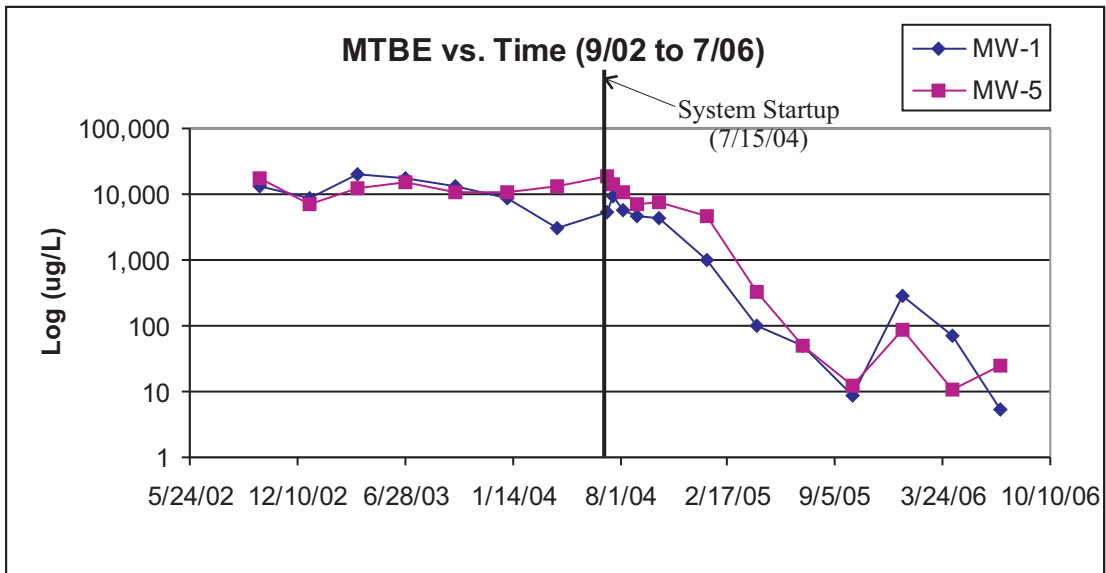
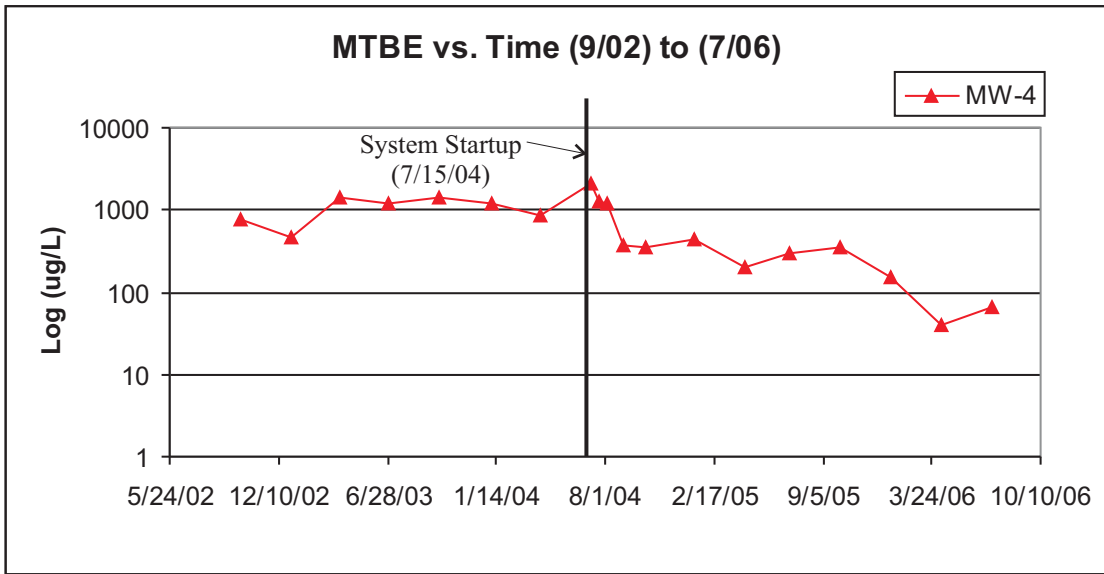


-  Sandy - Silty Clay
-  Clayey Gravel
-  Sand / Gravelly Sand
-  Backfill
-  Groundwater elevation as of 7/11/06
-  Well Screen Interval

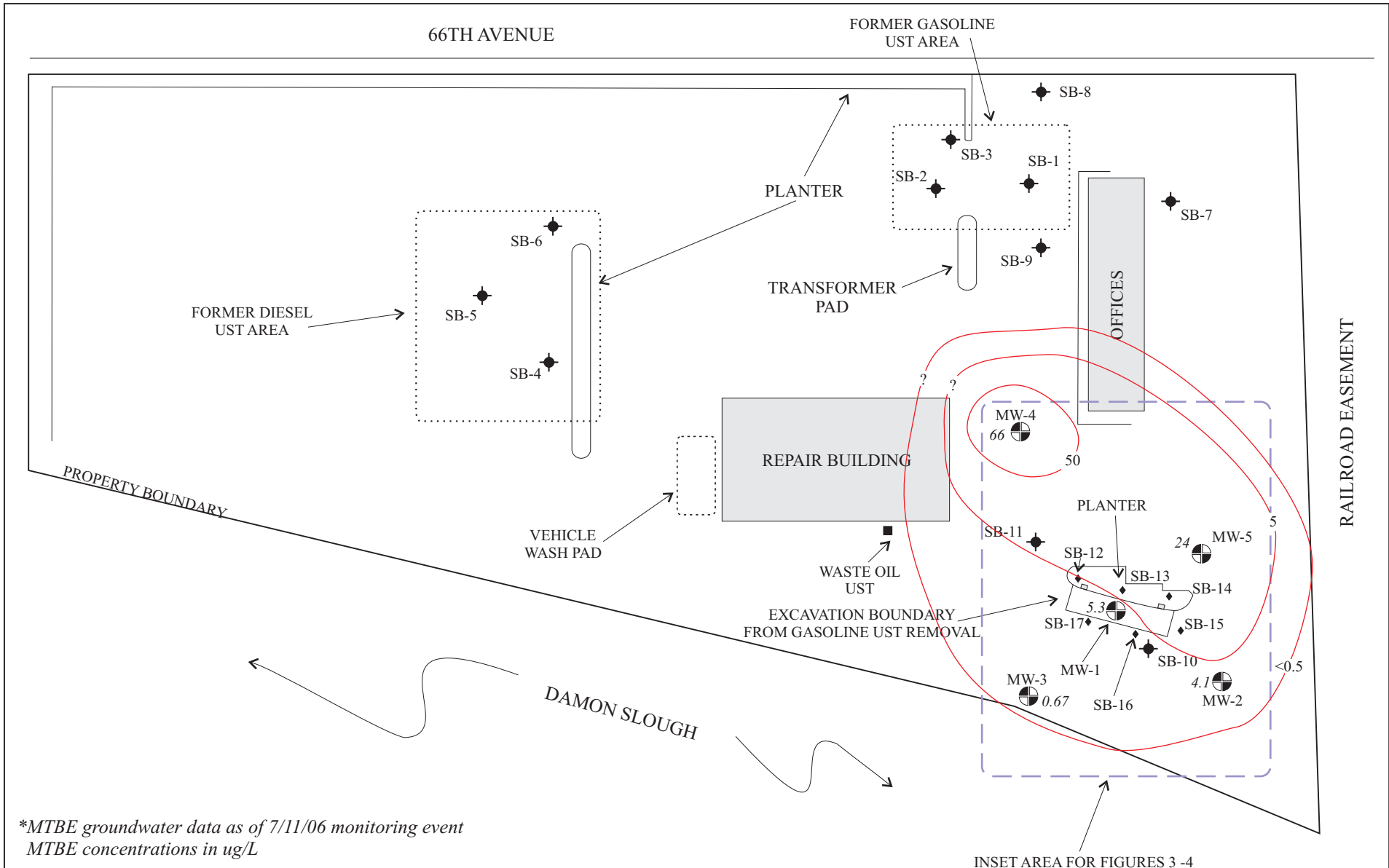
*Values represent groundwater concentrations in ug/L as of 7/11/06
 MTBE - methyl tertiary butyl ether
 TBA - tertiary butyl alcohol



AEI CONSULTANTS 2500 CAMINO DIABLO, STE. 100, WALNUT CREEK, CA	
B - B' Fence Diagram	
796 66th Avenue Oakland, CA	Figure 6 PROJECT NO. 110566



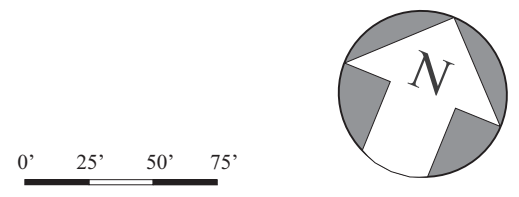
AEI Consultants	
2500 CAMINO DIABLO, STE 200, WALNUT CREEK, CA	
MTBE vs. TIME: MW-1, MW-4 & MW-5	
796 66TH AVENUE OAKLAND, CALIFORNIA	FIGURE 7 AEI PROJECT NO 110566



*MTBE groundwater data as of 7/11/06 monitoring event
 MTBE concentrations in ug/L

AEI Consultants 2500 CAMINO DIABLO BLVD, STE 200, WALNUT CREEK, CA	
MTBE Isopleth	
796 66th AVENUE OAKLAND, CALIFORNIA	FIGURE 8 AEI PROJECT NO 110566

- SB-X ◆ LOCATION OF BORINGS ADVANCED 7-9/2001
- MW-1 ⊕ LOCATION OF MONITORING WELLS INSTALLED 9/2002
- SB-X ◆ LOCATION OF BORINGS ADVANCED 9/2002



TABLES

Table 1 Well Construction Details, Cruise America, 796 66th Ave., Oakland, California

Date Installed	Top of Casing (feet)	Casing Material	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
MW-1	10.88	PVC	14.0	8 1/4	2.0	4.0-14.0	0.020	3.0-14.0	#2/16 sand
MW-2	10.77	PVC	14.0	8 1/4	2.0	4.0-14.0	0.020	3.0-14.0	#2/16 sand
MW-3	10.20	PVC	14.0	8 1/4	2.0	4.0-14.0	0.020	3.0-14.0	#2/16 sand
MW-4	11.07	PVC	14.0	8 1/4	2.0	4.0-14.0	0.020	3.0-14.0	#2/16 sand
MW-5	11.18	PVC	14.0	8 1/4	2.0	4.0-14.0	0.020	3.0-14.0	#2/16 sand

Table 2 Sparge Well Construction Details, Cruise America, 796 66th Ave., Oakland, California

Date Installed	Casing Material	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Filter Pack Interval (feet)	Filter Pack Material
S-1	PVC	18.0	8 1/2	3/4	15.5-18.0	14.0-18.0	#2/16 sand
S-2	PVC	18.0	8 1/2	3/4	15.5-18.0	14.0-18.0	#2/16 sand
S-3	PVC	18.5	8 1/2	3/4	16.0-18.5	14.5-18.5	#2/16 sand
S-4	PVC	18.0	8 1/2	3/4	15.5-18.0	14.0-18.0	#2/16 sand
S-5	PVC	18.0	8 1/2	3/4	15.5-18.0	13.0-18.0	#2/16 sand
S-6	PVC	18.0	8 1/2	3/4	15.5-18.0	12.5-17.0	#2/16 sand
S-7	PVC	16.5	8 1/2	3/4	14.0-16.5	10.5-16.5	#2/16 sand
S-8	PVC	15.0	8 1/2	3/4	11.5-14.0	9.5-14.0	#2/16 sand
S-9	PVC	16.5	8 1/2	3/4	14.0-16.5	11.5-16.5	#2/16 sand
S-10	PVC	18.0	8 1/2	3/4	12.5-15.0	10.5-15.0	#2/16 sand
S-11	PVC	17.0	8 1/2	3/4	14.5-17.0	13.0-17.0	#2/16 sand
S-12	PVC	15.0	8 1/2	3/4	11.0-13.5	9.0-13.5	#2/16 sand

**Table 3
Groundwater Monitoring Data**

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

Table 3
Groundwater Monitoring Data

Well ID (screen interval in ft bgs)	Date Sampled	Well Elevation (ft amsl)	Depth to Water (ft from TOC)	Water Table Elevation (ft amsl)	TPH-g (8015Cm) µg/L	Benzene µg/L	Toluene (EPA method 8021B) µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE		TBA
										(8021B) µg/L	(8260B) µg/L	(8260B) µg/L
MW-2 cont.	7/6/2005	10.77	6.83	3.94	<50	<0.5	0.77	<0.5	<0.5	<5.0	2.9	<5.0
	10/6/2005	10.77	7.05	3.72	<50	<0.5	0.81	<0.5	0.54	<5.0	2.1	<5.0
	1/9/2006	10.77	6.18	4.59	<50	<0.5	<0.5	<0.5	<0.5	6.1	7.6	<5.0
	4/10/2006	10.77	6.27	4.50	50	<0.5	8.0	1.5	6.1	<5.0	1.1	<5.0
	7/11/2006	10.77	6.97	3.80	<50	<0.5	0.72	<0.5	<0.5	<5.0	4.1	<5.0
MW-3 (4-14)	9/30/2002	10.20	5.21	4.99	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0
	1/2/2003	10.20	5.31	4.89	<50	0.89	0.50	<0.5	0.72	15	14	-
	3/31/2003	10.20	4.58	5.62	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.62	-
	6/30/2003	10.20	3.83	6.37	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.6	-
	10/1/2003	10.20	4.02	6.18	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	-
	1/5/2004	10.20	6.18	4.02	71	4.7	13	2.7	12	-	7.8	-
	4/5/2004	10.20	3.79	6.41	120	8.8	22	3.2	13	<5.0	<0.5	<5.0
	7/7/2004	10.20	3.76	6.44	<50	<0.5	<0.5	<0.5	<0.5	<5.0	4.0	<5.0
	10/13/2004	10.20	4.45	5.75	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	-
	1/11/2005	10.20	5.21	4.99	68	2.2	9.0	1.7	8.5	<5.0	<0.5	<5.0
	4/13/2005	10.20	4.44	5.76	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0
	7/6/2005	10.20	3.91	6.29	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0
	10/6/2005	10.20	4.16	6.04	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0
	1/9/2006	10.20	4.44	5.76	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0
	4/10/2006	10.20	4.02	6.18	<50	<0.5	4.0	0.78	3.3	<5.0	<0.5	<5.0
7/11/2006	10.20	6.67	3.53	<50	<0.5	0.51	<0.5	1.1	<5.0	0.67	<5.0	
MW-4 (4-14)	9/30/2002	11.07	5.50	5.57	<100	<0.5	<0.5	<0.5	<0.5	790	750	<100
	1/2/2003	11.07	4.90	6.17	<50	<0.5	<0.5	<0.5	<0.5	420	460	-
	3/31/2003	11.07	4.81	6.26	<50	<0.5	<0.5	<0.5	<0.5	1,500	1,400	-
	6/30/2003	11.07	4.61	6.46	<50	<0.5	<0.5	<0.5	<0.5	1,600	1,200	-
	10/1/2003	11.07	4.76	6.31	<50	<0.5	<0.5	<0.5	<0.5	1,800	1,400	-
	1/5/2004	11.07	4.32	6.75	<50	3.0	6.7	1.4	6.1	-	1,200	-
	4/5/2004	11.07	4.43	6.64	<50	0.79	2.0	<0.5	2.2	800	840	<250
	7/7/2004	11.07	5.08	5.99	<50	<0.5	<0.5	<0.5	<0.5	1,400	2,100	<250
	7/19/2004	11.07	5.19	5.88	<50	<0.5	<0.5	<0.5	<0.5	1,200	1,300	<500

**Table 3
Groundwater Monitoring Data**

Well ID (screen interval in ft bgs)	Date Sampled	Well Elevation (ft amsl)	Depth to Water (ft from TOC)	Water Table Elevation (ft amsl)	TPH-g (8015Cm) µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE		TBA (8260B) µg/L
										(8021B) µg/L	(8260B) µg/L	
MW-4 cont.	8/6/2004	11.07	5.20	5.87	<50	0.76	<0.5	<0.5	<0.5	1,300	1,200	<500
	8/20/2004	11.07	5.37	5.70	<50	<0.5	<0.5	<0.5	<0.5	460	-	-
	9/3/2004	11.07	5.35	5.72	<50	<0.5	<0.5	<0.5	<0.5	440	370	<50
	10/13/2004	11.07	5.35	5.72	<50	<0.5	<0.5	<0.5	<0.5	330	360	-
	1/11/2005	11.07	4.99	6.08	<50	1.0	2.1	<0.5	1.8	450	430	<100
	4/13/2005	11.07	5.17	5.90	<50	<0.5	<0.5	<0.5	<0.5	340	200	<50
	7/6/2005	11.07	5.18	5.89	<50	<0.5	<0.5	<0.5	<0.5	300	290	330
	10/6/2005	11.07	5.03	6.04	<50	<0.5	<0.5	<0.5	<0.5	380	350	430
	1/9/2006	11.07	4.11	6.96	<50	<0.5	<0.5	<0.5	<0.5	140	150	200
	4/10/2006	11.07	4.13	6.94	<50	<0.5	1.0	<0.5	1.1	52	39	120
	7/11/2006	11.07	4.72	6.35	<50	<0.5	<0.5	<0.5	<0.5	56	66	120
MW-5 (4-14)	9/30/2002	11.18	5.62	5.56	<2,000	<5.0	<5.0	<5.0	<5.0	19,000	18000	<2,500
	1/2/2003	11.18	5.12	6.06	<50	<0.5	<0.5	<0.5	<0.5	7,000	7,000	-
	3/31/2003	11.18	4.93	6.25	<500	<5.0	<5.0	<5.0	<5.0	14,000	12,000	-
	6/30/2003	11.18	4.75	6.43	<500	<5.0	<5.0	<5.0	<5.0	13,000	15,000	-
	10/1/2003	11.18	4.88	6.30	<500	<5.0	<5.0	<5.0	<5.0	12,000	11,000	-
	1/5/2004	11.18	4.19	6.99	<1,000	<10	<10	<10	<10	-	11,000	-
	4/5/2004	11.18	4.57	6.61	<250	<2.5	<2.5	<2.5	<2.5	9,400	13,000	<2,500
	7/7/2004	11.18	5.19	5.99	<500	<5.0	<5.0	<5.0	<5.0	15,000	19,000	<2,000
	7/19/2004	11.18	5.32	5.86	<500	<5.0	<5.0	<5.0	<5.0	16,000	14,000	<2,500
	8/6/2004	11.18	5.33	5.85	110	<0.5	<0.5	<0.5	<0.5	12,000	11,000	<2,500
	8/20/2004	11.18	5.49	5.69	<500	<5.0	<5.0	<5.0	<5.0	7,200	-	-
	9/3/2004	11.18	5.48	5.70	<500	<2.5	<2.5	<2.5	<2.5	8,500	7,200	<1,700
	10/13/2004	11.18	5.49	5.69	<250	<2.5	<2.5	<2.5	<2.5	6,700	7,700	-
	1/11/2005	11.18	5.08	6.10	<100	1.5	3.3	<1.0	2.3	3,000	4,800	1,200
	4/13/2005	11.18	5.24	5.94	<50	<0.5	<0.5	<0.5	<0.5	510	320	2,600
7/6/2005	11.18	5.27	5.91	<50	<0.5	<0.5	<0.5	<0.5	43	51	4,900	
10/6/2005	11.18	5.14	6.04	<50	<0.5	<0.5	<0.5	<0.5	25	<25	1,900	
1/9/2006	11.18	4.23	6.95	<50	<0.5	<0.5	<0.5	<0.5	70	84	2,000	

**Table 3
Groundwater Monitoring Data**

Well ID (screen interval in ft bgs)	Date Sampled	Well Elevation (ft amsl)	Depth to Water (ft from TOC)	Water Table Elevation (ft amsl)	TPH-g (8015Cm) $\mu\text{g/L}$	Benzene $\mu\text{g/L}$	Toluene (EPA method 8021B) $\mu\text{g/L}$	Ethylbenzene $\mu\text{g/L}$	Xylenes $\mu\text{g/L}$	MTBE		TBA
										(8021B) $\mu\text{g/L}$	(8260B) $\mu\text{g/L}$	(8260B) $\mu\text{g/L}$
MW-5 cont.	4/10/2006	11.18	4.24	6.94	<50	<0.5	0.59	<0.5	<0.5	13	11	860
	7/11/2006	11.18	4.85	6.33	<50	<0.5	<0.5	<0.5	<0.5	20	24	1,200

Notes:

bgs = below ground surface

ft amsl = feet above mean sea level

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

TPH-g = Total Petroleum Hydrocarbons as gasoline

$\mu\text{g/L}$ = micrograms per liter

MTBE = Methyl tertiary-Butyl Ether

TBA = tertiary-Butyl Alcohol

- = Sample not analyzed by this method

Table 4
Water Table Data Summary

Episode	Date Sampled	Average Water Table Elevation*	Change From Previous Episode	Gradient (direction)
1	9/30/2002	4.87	-	0.005 (S)
2	1/2/2003	5.62	0.75	0.022 (SSE)
3	3/31/2003	5.94	0.32	0.006 (SSE)
4	6/30/2003	6.09	0.16	0.020 (SE)
5	10/1/2003	5.82	-0.27	0.029-0.001 (SE)
6	1/5/2004	6.06	0.24	0.03 (SE)
7	4/5/2004	5.95	-0.11	0.02 (E)
8	7/7/2004	5.65	-0.30	0.02 (E)
9	7/19/2004	5.83	0.18	nc
10	8/6/2004	5.82	-0.01	nc
11	8/20/2004	5.65	-0.17	nc
12	9/3/2004	5.69	0.04	nc
13	10/13/2004	5.28	-0.41	0.02 (E)
14	1/11/2005	5.37	0.09	0.02 (E)
15	4/13/2005	5.51	0.14	0.02 (E)
16	7/6/2005	5.57	0.06	0.024 (E)
17	10/6/2005	5.56	-0.01	0.03 (E)
18	1/9/2006	6.25	0.69	0.04 (ESE)
19	4/10/2006	6.29	0.05	0.03 (ESE)
20	7/11/2006	5.25	-1.04	0.03 (ESE)

Notes:

*Average Water Table Elevation value calculated in Microsoft Excel

nc = not calculated

Table 5
Soil Sample Analytical Data

Sample ID	Date	TPH-g mg/kg	TPH-d mg/kg	MTBE mg/kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylenes mg/kg	Lead	
									TTLc mg/kg	STLC mg/l
SB-1 7'	7/17/2001	<1.0	-	<0.05	<0.005	<0.005	<0.005	<0.005	-	-
SB-2 6'	7/17/2001	<1.0	26	<0.05	<0.005	<0.005	<0.005	<0.005	-	-
SB-2 10'	7/17/2001	<1.0	-	<0.05	<0.005	<0.005	<0.005	<0.005	-	-
SB-3 4'	7/17/2001	<1.0	-	<0.05	<0.005	<0.005	<0.005	<0.005	-	-
SB-4 6'	7/17/2001	<1.0	2.8	<0.05	<0.005	<0.005	<0.005	<0.005	-	-
SB-5 4'	7/17/2001	5.0	13	<0.05	0.1600	0.058	0.11	0.21	-	-
SB-5 7'	7/17/2001	9.7	37	<0.05	0.059	0.012	0.007	0.056	-	-
SB-6 7'	7/17/2001	1.5	11	<0.05	0.008	0.018	<0.005	<0.005	-	-
SB-6 15'	7/17/2001	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	-	-
SB-8 4'	9/28/2001	16	-	<0.05	0.053	0.11	0.031	0.14	-	-
SB-8 11'	9/28/2001	<1.0	-	<0.05	<0.005	<0.005	<0.005	<0.005	-	-
Disp-East 3'	11/30/2001	110	-	<0.20	0.07	1.2	0.16	5.2	-	-
Disp-West 3'	11/30/2001	280	-	6	0.25	7.5	4.1	26	-	-
South 6 1/2	11/30/2001	4.1	-	53	0.038	0.16	0.034	0.19	-	-
West 6 1/2	11/30/2001	<50	-	0.99	<0.005	0.014	0.011	0.046	-	-
East 6 1/2	11/30/2001	140	-	50	13	3.9	7.9	18	-	-
SB-12 5'	9/6/2002	<50	-	<0.05	<0.005	<0.005	<0.005	<0.005	1200	23
SB-13 4'	9/6/2002	15,000	-	<50	21	840	300	1700	830	7.5
SB-14 4'	9/6/2002	<50	-	<0.05	<0.005	<0.005	<0.005	<0.005	110	2.7
SB-15 4'	9/6/2002	<50	-	<0.05	<0.005	<0.005	<0.005	<0.005	5	-
SB-16 4'	9/6/2002	73	-	1.5	<0.05	0.18	<0.05	<0.05	20	-
SB-17 4'	9/6/2002	1.2	-	2.1	0.0073	0.007	<0.005	0.011	3.2	-
SB-17 39'	9/6/2002	<50	-	<0.05	<0.005	<0.005	<0.005	<0.005	3.3	-
MW-1 4'	9/19/2002	<1.0	-	<0.05	<0.005	<0.005	<0.005	<0.005	5.9	-
MW-2 4'	9/19/2002	<1.0	-	<0.05	<0.005	<0.005	<0.005	<0.005	25	-
MW-3 4'	9/19/2002	<1.0	-	<0.05	<0.005	<0.005	<0.005	<0.005	25	-
MW-4 4'	9/19/2002	6.2	-	<0.05	<0.005	0.0080	0.0078	0.021	160	-
MW-5 4'	9/19/2002	<1.0	-	2.0	0.0053	0.0088	<0.005	0.010	190	-
S-1 6'	5/17/2004	<1.0	-	<0.05	<0.005	<0.005	<0.005	<0.005	-	-
S-2 6'	5/17/2004	31	-	2.7	0.035	0.32	0.082	0.27	-	-
S-5 6'	5/17/2004	1.2	-	2.1	<0.005	0.014	<0.005	0.020	-	-
S-6 6'	5/17/2004	360	-	<3.5	0.61	1.8	5.0	5.2	-	-
S-7 6'	5/18/2004	3.8	-	2.0	<0.005	0.016	<0.005	<0.005	-	-
S-12 11'	5/18/2004	<1.0	-	1.1	<0.005	<0.005	<0.005	<0.005	-	-
MDL		1.0	1.0	0.05	0.005	0.005	0.005	0.005	3	0.200

MDL = Method Detection Limit
- = Sample not analyzed by this method

mg/kg = milligrams per kilogram
mg/l = milligrams per liter

Table 6
Groundwater Sample Analytical Data: Soil Borings

Sample ID	Date	TPH-g µg/L	TPH-d µg/L	MTBE(µg/L) (EPA 8020) (EPA 8260)		Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	Lead mg/L
SB-1 W	7/17/2001	<50	-	650	-	0.63	<0.5	<0.5	<0.5	-
SB-2 W	7/17/2001	<50	-	<5.0	-	<0.5	<0.5	<0.5	<0.5	-
SB-3 W	7/17/2001	120	-	<5.0	-	<0.5	4.6	<0.5	<0.5	-
SB-4 W	7/17/2001	<50	990	<5.0	-	<0.5	<0.5	<0.5	<0.5	-
SB-5 W	7/17/2001	68	410	<5.0	-	<0.5	0.66	<0.5	<0.5	-
SB-6 W	7/17/2001	240	590	<5.0	-	<0.5	2.9	<0.5	<0.5	-
SB-7 W	9/28/2001	<50	-	<5.0	<0.5	<0.5	0.74	<0.5	<0.5	-
SB-9 W	9/28/2001	<50	-	670	630	<0.5	1.0	<0.5	<0.5	-
SB-10 W	9/28/2001	<500	-	15,000	13,000	<2.0	<2.0	2.5	<2.0	-
SB-11 W	9/28/2001	58	-	1,900	1,700	2.4	1.8	<0.5	0.79	-
GW*	11/30/2001	44,000	-	42,000	-	590	5100	640	3500	-
SB-12	9/6/2002	<1000	-	31,000	32,000	44	<10	<10	<10	<0.005
SB-13	9/6/2002	13,000	-	51,000	49,000	300	1700	320	1,800	<0.005
SB-14	9/6/2002	<500	-	11,000	9,500	<5.0	<5.0	<5.0	<5.0	<0.005
SB-15	9/6/2002	300	-	730	770	<0.5	3.2	0.71	3.5	0.039
SB-16	9/6/2002	<200	-	3,900	2,700	<1	2.1	<1	2.5	<0.005
SB-17	9/6/2002	<200	-	5,900	5,500	<1.7	3.8	<1.7	4.2	<0.005
SB-17-W 47'	9/6/2002	90	-	150	120	1.7	3.5	1.9	3.5	-
MDL		50	50	5.0		0.5	0.5	0.5	0.5	0.005

MDL = Method Detection Limit
µg/L = micrograms per liter (ppb)
mg/L = milligrams per liter (ppm)

- = Sample not analyzed by this method

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

**Table 7:
Groundwater Sample Fuel Oxygenate and Lead Scavenger Analytical Data**

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

MDL = Method Detection Limit

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

µg/L = micrograms per liter (ppb)

mg/L = milligrams per liter (ppm)

- = Sample not analyzed by this method

APPENDIX A
Soil Boring Logs

Project No: 5526

Sheet: 1 of 1

Project Name: Cruise America

Log of Borehole: SB-12

Client:

Location:

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery		
0			Ground Surface						
2	[Dotted Pattern]	GC	<i>Brown gravely sand</i>					moderate hydrocarbon odor PID = 35 ppm	
4									
6	[Dotted Pattern]	SW	<i>Black sandy gravel</i>	SB-12 5'	SS		40	saturated PID = 50 ppm	
8									
8	[Diagonal Hatching]	CL	<i>Black gravely clay</i>						
10									
10			End of Borehole						
12									
14									

Drill Date 9/6/02
 Drill Method: Direct Push
 Total Depth: 10
 Depth to Water: 6.40

Reviewed by: EW
 Logged by: NG

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Project No: 5526




Sheet: 1 of 1

Project Name: Cruise America

Log of Borehole: SB-13

Client:

Location:

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks	
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery			
0			Ground Surface							
		SP	<i>Sand</i>							
2		GP	<i>Gravely sand</i>							
4		CL	<i>Black gravely clay</i>	SB-13 5'	SS		60		strong hydrocarbon odor PID = 1500 ppm	
6										saturated PID = 50 ppm
8										
10										
			End of Borehole							
12										
14										

Drill Date 9/6/02

Reviewed by: EW

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Drill Method: Direct Push

Logged by: NG

Total Depth: 10

Depth to Water: 6.15

Project No: 5526



Sheet: 1 of 1

Project Name: Cruise America

Log of Borehole: SB-14

Client:

Location:

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery		
0			Ground Surface						
0 - 3		GC	Gravely sand						
3 - 10		CL	Black gravely clay						
				SB-14 5'	SS		70	strong hydrocarbon odor PID = 1500 ppm	
				SB-14 7'	SS		50	saturated PID = 50 ppm	
10			End of Borehole						
12									
14									

Drill Date 9/6/02

Reviewed by: EW

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Drill Method: Direct Push

Logged by: NG

Total Depth: 10

Depth to Water: 5.98

Project No: 5526




Sheet: 1 of 1

Project Name: Cruise America

Log of Borehole: SB-15

Client:

Location:

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery		
0		GC	Ground Surface						
2			<i>Clayey gravel</i>						
4		CL	<i>Gravely clay</i> clasts to 6 cm green staining	SB-15 5'	SS		100	PID = 40 ppm	
6									saturated PID = 50 ppm
8		CL	<i>Black gravely silty clay</i> gravels decreasing	SB-15 7'	SS		80		
10			End of Borehole						
12									
14									

Drill Date 9/6/02

Reviewed by: EW

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Drill Method: Direct Push

Logged by: NG

Total Depth: 10

Depth to Water: 5.45

Project No: 5526

Sheet: 1 of 1

Project Name: Cruise America

Log of Borehole: SB-16

Client:

Location:

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery		
0			Ground Surface						
0 - 2		GC	Clayey gravel						
2 - 7.5		CL	Gravelly clay green staining						
				SB-16 5'	SS		90		PID = 80 ppm saturated
7.5 - 8.5		ML	Green and black silt						
				SB-16 9'	SS		40		PID = <1 ppm
8.5 - 10			End of Borehole						
10 - 14									

Drill Date 9/6/02
 Drill Method: Direct Push
 Total Depth: 10
 Depth to Water: 5.35

Reviewed by: EW
 Logged by: NG

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Project No: 5526

Sheet: 1 of 2

Project Name: Cruise America

Log of Borehole: SB-17

Client:

Location:

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery		
0			Ground Surface						
0 - 2		GC	<i>Clayey gravel</i>						
2 - 4		CL	<i>Gravely clay</i> green staining	SB-17 5'	SS		80	PID = 10 ppm	
4 - 8		OL	<i>Black silty clay</i> Organic and anthropogenic debris	SB-17 9'	SS		70	saturated moderate hydrocarbon odor PID = 50 ppm	
8 - 12		CL	<i>Soft Clay</i> Organic rich						
12 - 16		SC	<i>Sandy Clay</i>					sulfide odor	
16 - 20		OH	<i>Stiff organic clay</i>						
20 - 22		OH	<i>Stiff organic clay</i>	SB-17 20'	SS		100		
22 - 24		CL	<i>Brown gravely clay</i> Gravels increase with depth						

Drill Date 9/6/02

Reviewed by: EW

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Drill Method: Dual Cased Direct Push

Logged by: NG

Total Depth: 50

Depth to Water: 5.58, 45.5

Project No: 5526








Sheet 2 of 2

Project Name: Cruise America

Log of Borehole: SB-17

Client:

Location:

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery		
27		SW	<i>Brown gravelly clay</i> Gravels increase with depth						
29			<i>Well graded sand</i>						
31		CH	stiffens-less sand rounded clasts 2-3cm <5%						
33									
35									
37		CH	<i>Stiff sandy clay</i> plastic						
39					SB-17 39'	SS	100		
41		CL	softer, more fine sand and silt						
43									
45								wet	
47		CL	<i>Sandy clay</i> soft, cohesive						
49			SW	<i>Well-graded gravelly sand</i>					

Drill Date 9/6/02

Reviewed by: EW

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Lafayette, CA 94549
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Drill Method: Dual Cased Direct Push

Logged by: NG

Total Depth: 50

Depth to Water: 5.58, 45.5

Project No: 5526

Sheet: 1 of 1

Project Name: Cruise America

Log of Borehole: MW-1

Client:

Location:

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery		
0			Ground Surface						
2									Neat cement grout
4				MW-1 4'	SS	11	80		Bentonite PID = <1.0 ppm
6		GW	Saturated <i>Sand and baserock backfill</i>						
8									PID = 3 ppm
10					SS	5	25		
12									10' 0.020 2"screen from 4' to 14' #2/16 Monterey Sand
14		CL	<i>Dark grey soft silty clay</i>		SS				PID = 4 ppm
			End of Borehole						

Drill Date 9/18/02
 Drill Method: HSA
 Total Depth: 14
 Depth to Water: 5.4

Reviewed by: EW
 Logged by: NG

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Project No: 5526

Sheet: 1 of 1

Project Name: Cruise America

Log of Borehole: MW-2

Client:

Location:

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery		
0			Ground Surface						
0 - 2								Neat cement grout	
2 - 4								Bentonite	
4			<i>Brown gravelly clay</i>	MW-2 4'	SS	8	50		PID = <1.0 ppm
4 - 10		GC							PID = <1.0 ppm
10									
10 - 12			shell fragments		SS	2	100		
12			<i>Soft grey silty clay</i>						
12 - 14		CL							10' 0.020 2"screen from 4' to 14' #2/16 Monterey Sand
14			some sand and gravel beds		SS	2	100		Sulfur odor
14			End of Borehole						PID = <1.0 ppm

Drill Date 9/18/02

Reviewed by: EW

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Drill Method: HSA

Logged by: NG

Total Depth: 14

Depth to Water: 13.0

Project No: 5526

Sheet: 1 of 1

Project Name: Cruise America

Log of Borehole: MW-3

Client:

Location:

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery		
0			Ground Surface						
2								Neat cement grout	
4			20 % gravel	MW-2 4'	SS	8	50	Bentonite PID = 43 ppm	
6		CL	<i>Soft black silty clay</i> cohesive some gravel beds						
8									
10					SS	2	100	PID = 89 ppm	
12									
14					SS	2	100	10' 0.020 2"screen from 4' to 14' #2/16 Monterey Sand	
			End of Borehole					Sulfur odor PID = 103 ppm	

Drill Date 9/18/02

Reviewed by: EW

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Drill Method: HSA

Logged by: NG

Total Depth: 14

Depth to Water: 13.05

Project No: 5526

Sheet: 1 of 1

Project Name: Cruise America

Log of Borehole: MW-4

Client:

Location:

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery		
0			Ground Surface						
0 - 2								Neat cement grout	
2 - 4								Bentonite	
4 - 10		GW	<i>Brown sandy gravel</i>	MW-4 4'	SS	10	50	PID = 2 ppm	
10 - 12		CL	<i>Dark grey silty clay</i> Rich in organic matter					PID = 2 ppm	
12 - 14		SC	Saturated <i>Clayey sand</i> gravels to 1.5"					10' 0.020 2" screen from 4' to 14' #2/16 Monterey Sand	
14			End of Borehole					Sulfur odor PID = <1 ppm	

Drill Date 9/18/02
 Drill Method: HSA
 Total Depth: 14
 Depth to Water: 5.7

Reviewed by: EW
 Logged by: NG

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Project No: 5526

Sheet: 1 of 1

Project Name: Cruise America

Log of Borehole: MW-5

Client:

Location:

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery		
0			Ground Surface						
2								Neat cement grout	
4		SC	<i>Light grey sandy clay</i> Contains gravel and anthropogenic debris	MW-4 4'	SS	10	50	Bentonite PID = 2 ppm	
6									
8									
10		CL						PID = 2 ppm	
12			<i>Dark grey silty clay</i> Rich in organic matter					10' 0.020 2" screen from 4' to 14' #2/16 Monterey Sand	
14			End of Borehole					Sulfur odor PID = <1 ppm	

Drill Date 9/18/02
 Drill Method: HSA
 Total Depth: 14
 Depth to Water: 6.2

Reviewed by: EW
 Logged by: NG

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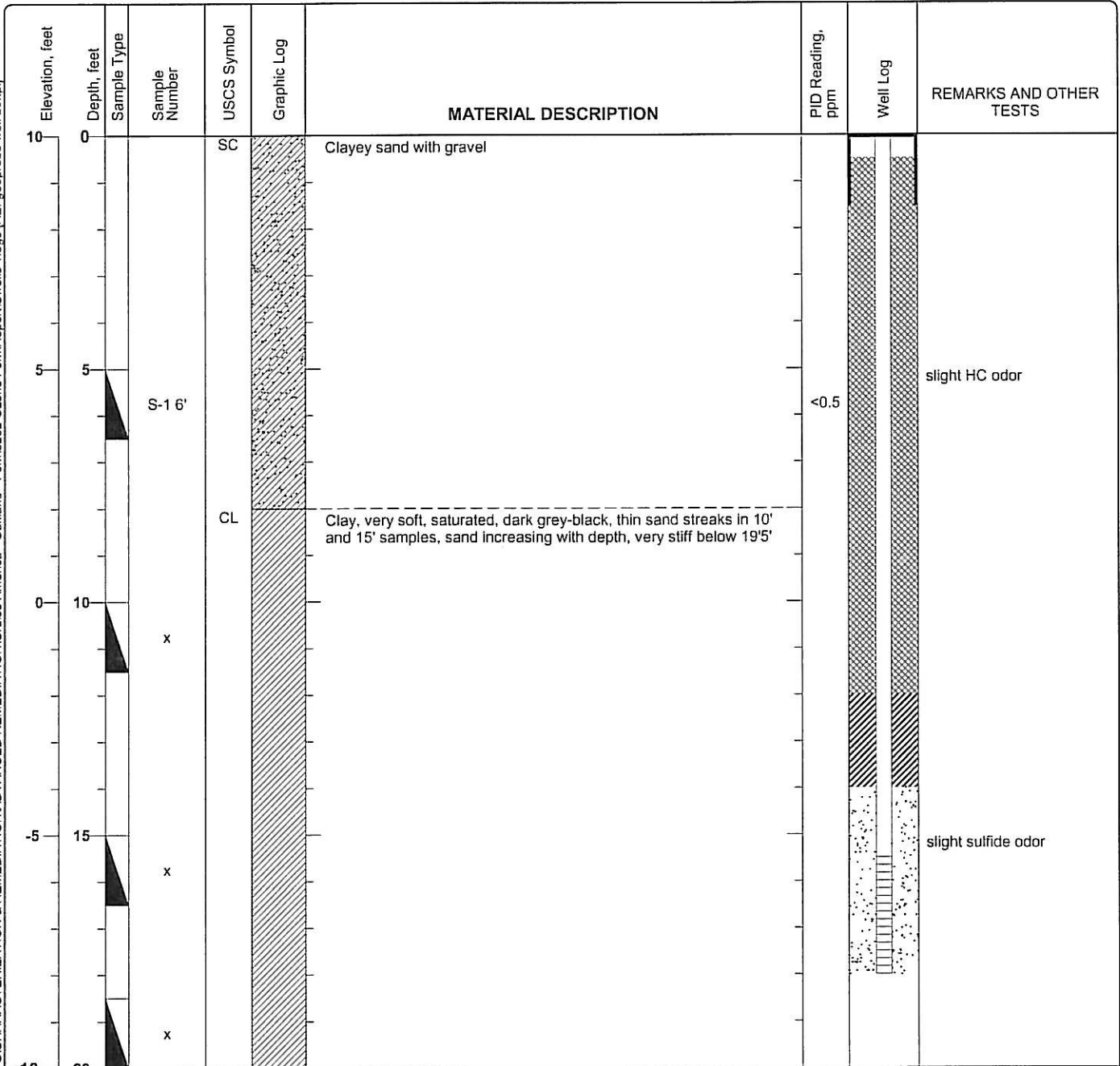
Project: Cruise America
 Project Location: 796 66th Avenue, Oakland
 Project Number: 8262

Log of Boring S-1

Sheet 1 of 1

Date(s) Drilled: May 17, 2004	Logged By: Peter McIntyre	Checked By: Robert Flory
Drilling Method: Hollow Stem Auger	Drill Bit Size/Type:	Total Depth of Borehole: 20 feet bgs
Drill Rig Type: CME 75	Drilling Contractor: HEW	Approximate Surface Elevation: 10 feet MSL
Groundwater Level and Date Measured:	Sampling Method(s): California	Hammer Data:
Borehole Backfill:	Location:	

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Figure

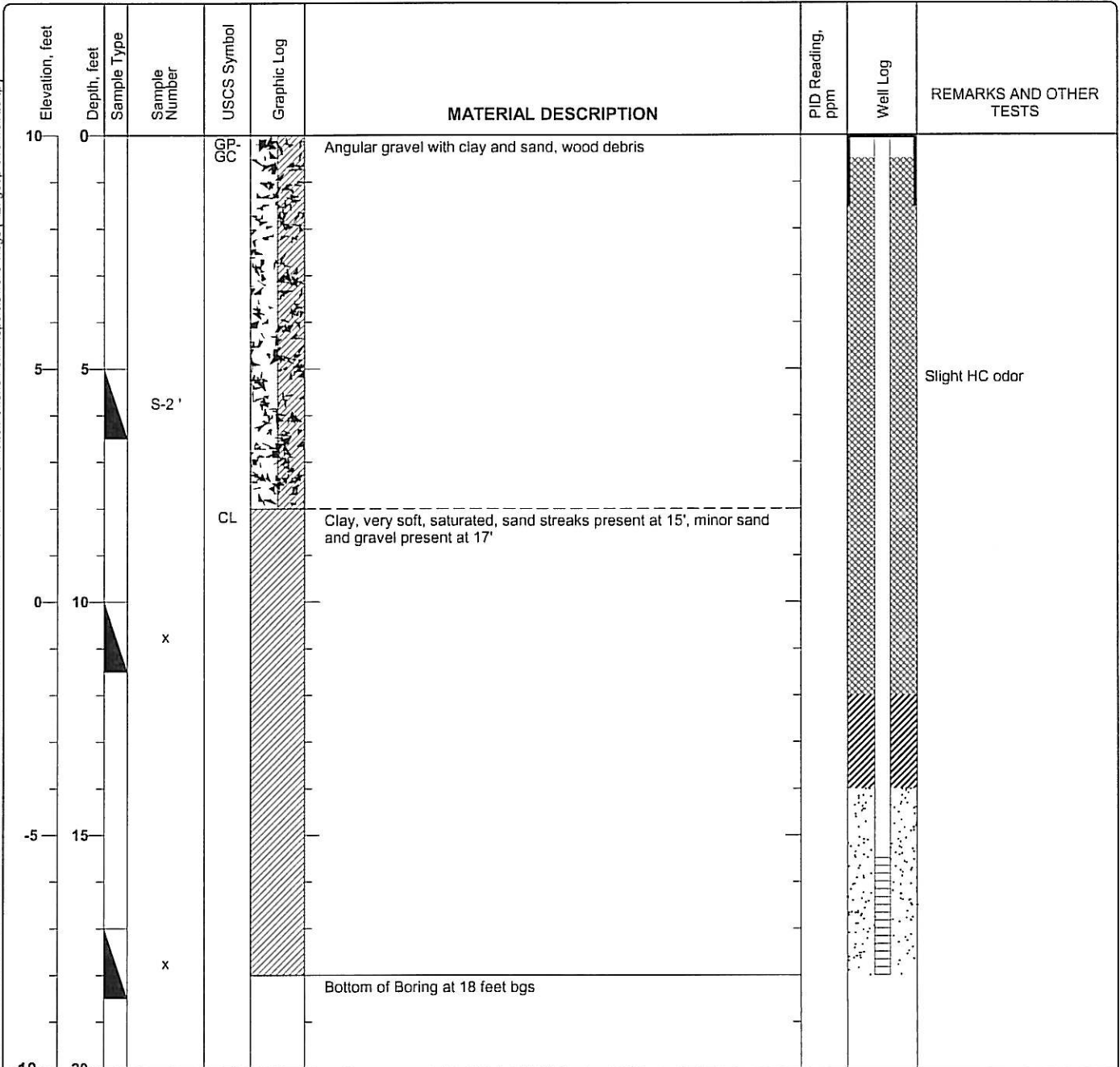
Project: Cruise America
 Project Location: 796 66th Avenue, Oakland
 Project Number: 8262

Log of Boring S-2

Sheet 1 of 1

Date(s) Drilled: May 17, 2004	Logged By: Peter McIntyre	Checked By: Robert Flory
Drilling Method: Hollow Stem Auger	Drill Bit Size/Type:	Total Depth of Borehole: 18 feet bgs
Drill Rig Type: CME 75	Drilling Contractor: HEW	Approximate Surface Elevation: 10 feet MSL
Groundwater Level and Date Measured:	Sampling Method(s): California	Hammer Data:
Borehole Backfill:	Location:	

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Figure

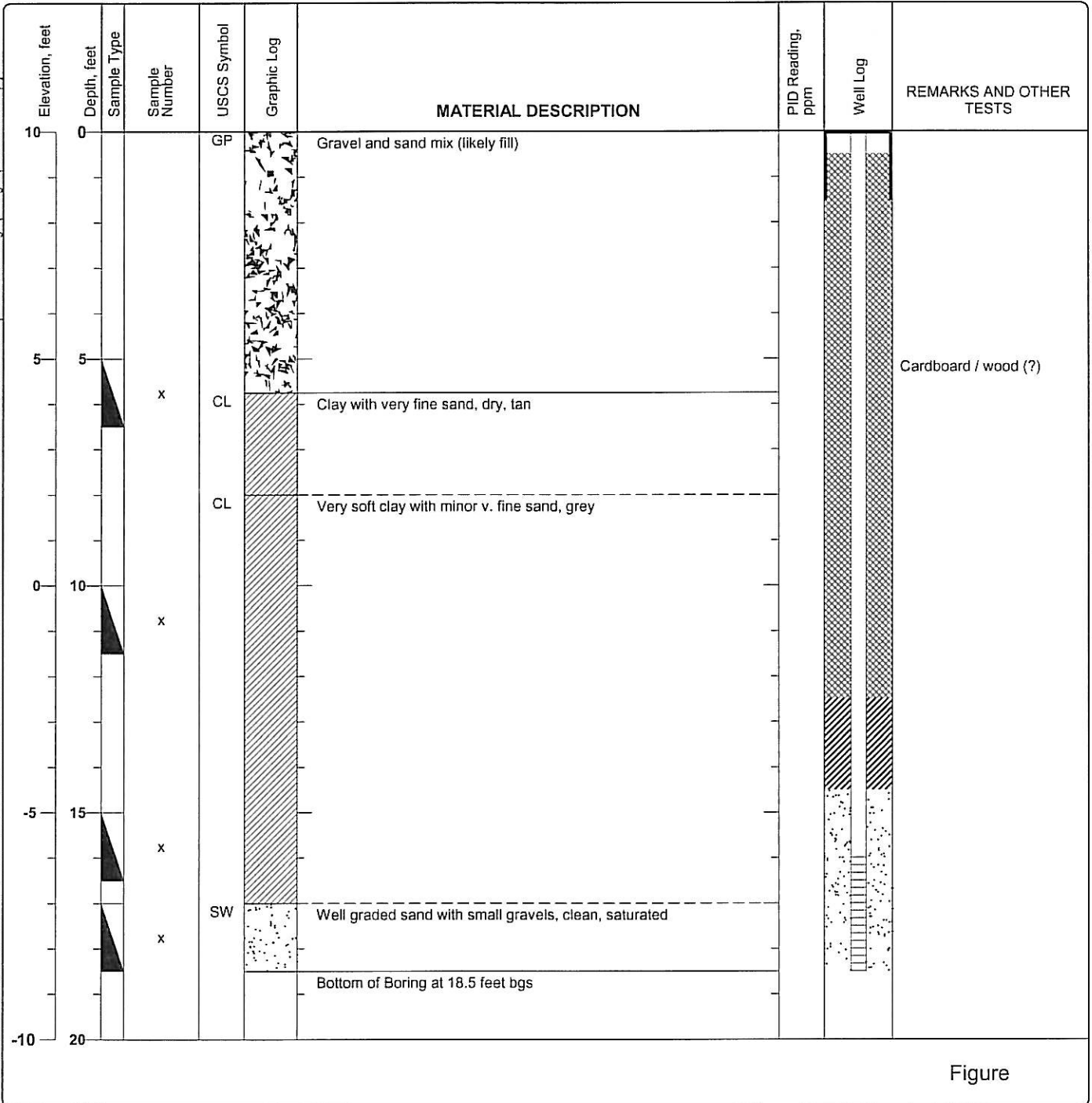
Project: Cruise America
 Project Location: 796 66th Avenue, Oakland
 Project Number: 8262

Log of Boring S-3

Sheet 1 of 1

Date(s) Drilled: May 17, 2004	Logged By: Peter McIntyre	Checked By: Robert Flory
Drilling Method: Hollow Stem Auger	Drill Bit Size/Type:	Total Depth of Borehole: 18.5 feet bgs
Drill Rig Type: CME 75	Drilling Contractor: HEW	Approximate Surface Elevation: 10 feet MSL
Groundwater Level and Date Measured:	Sampling Method(s): California	Hammer Data:
Borehole Backfill:	Location:	

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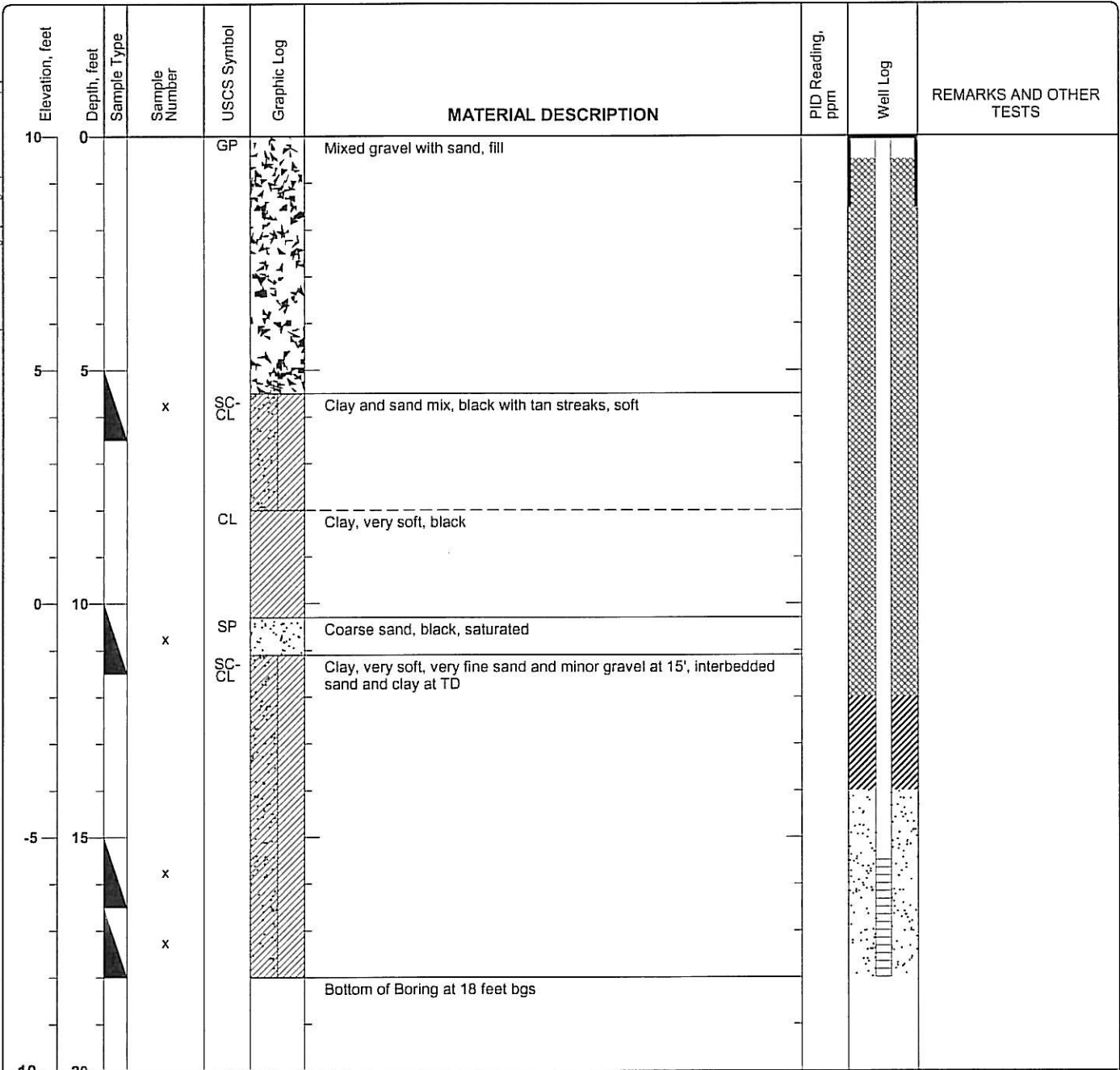
Figure

Project: Cruise America
 Project Location: 796 66th Avenue, Oakland
 Project Number: 8262

Log of Boring S-4
 Sheet 1 of 1

Date(s) Drilled	May 17, 2004	Logged By	Peter McIntyre	Checked By	Robert Flory
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type		Total Depth of Borehole	18 feet bgs
Drill Rig Type	CME 75	Drilling Contractor	HEW	Approximate Surface Elevation	10 feet MSL
Groundwater Level and Date Measured		Sampling Method(s)	California	Hammer Data	
Borehole Backfill		Location			

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Figure

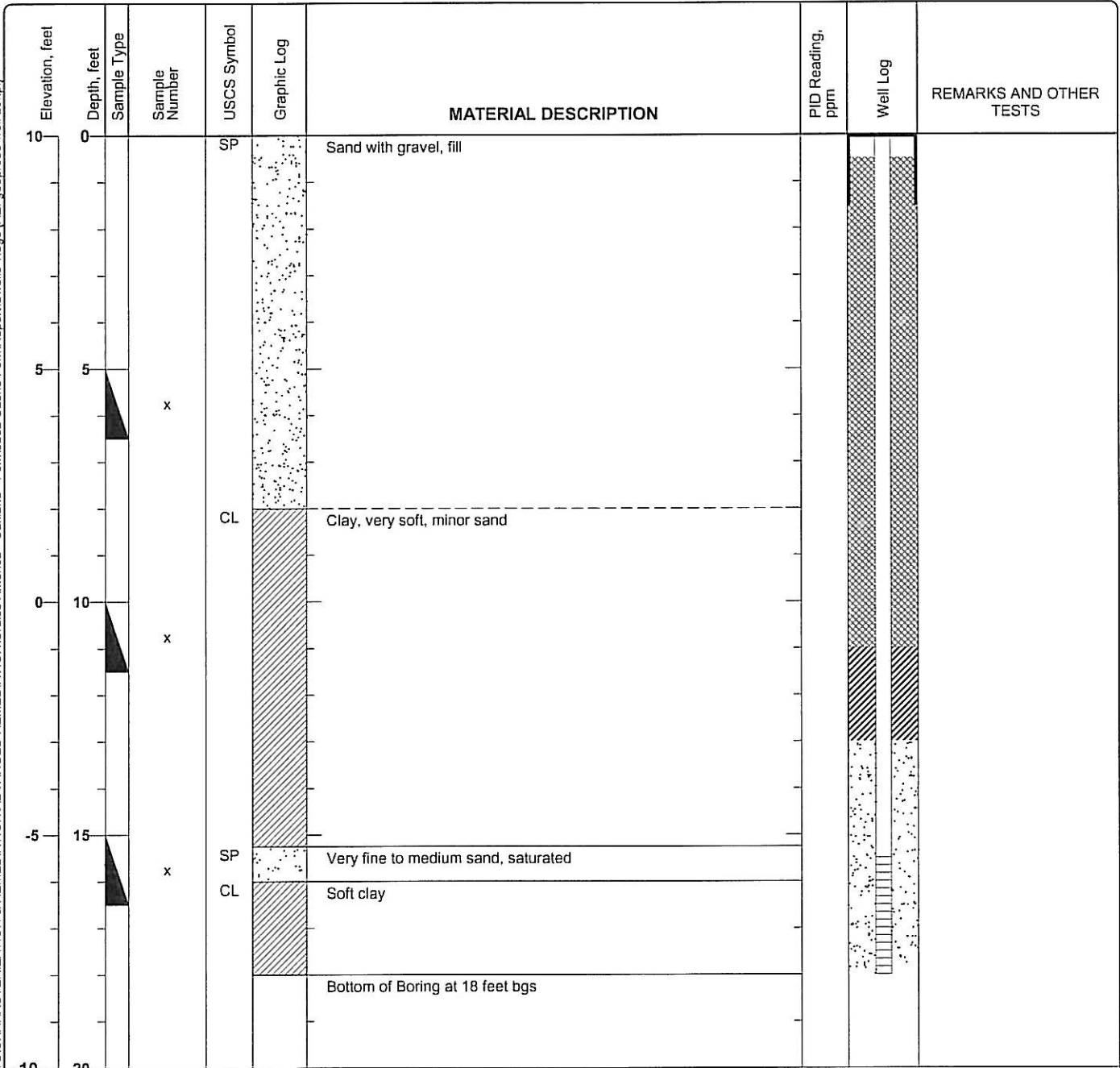
Project: Cruise America
 Project Location: 796 66th Avenue, Oakland
 Project Number: 8262

Log of Boring S-5

Sheet 1 of 1

Date(s) Drilled: May 17, 2004	Logged By: Peter McIntyre	Checked By: Robert Flory
Drilling Method: Hollow Stem Auger	Drill Bit Size/Type:	Total Depth of Borehole: 18 feet bgs
Drill Rig Type: CME 75	Drilling Contractor: HEW	Approximate Surface Elevation: 10 feet MSL
Groundwater Level and Date Measured:	Sampling Method(s): California	Hammer Data:
Borehole Backfill:	Location:	

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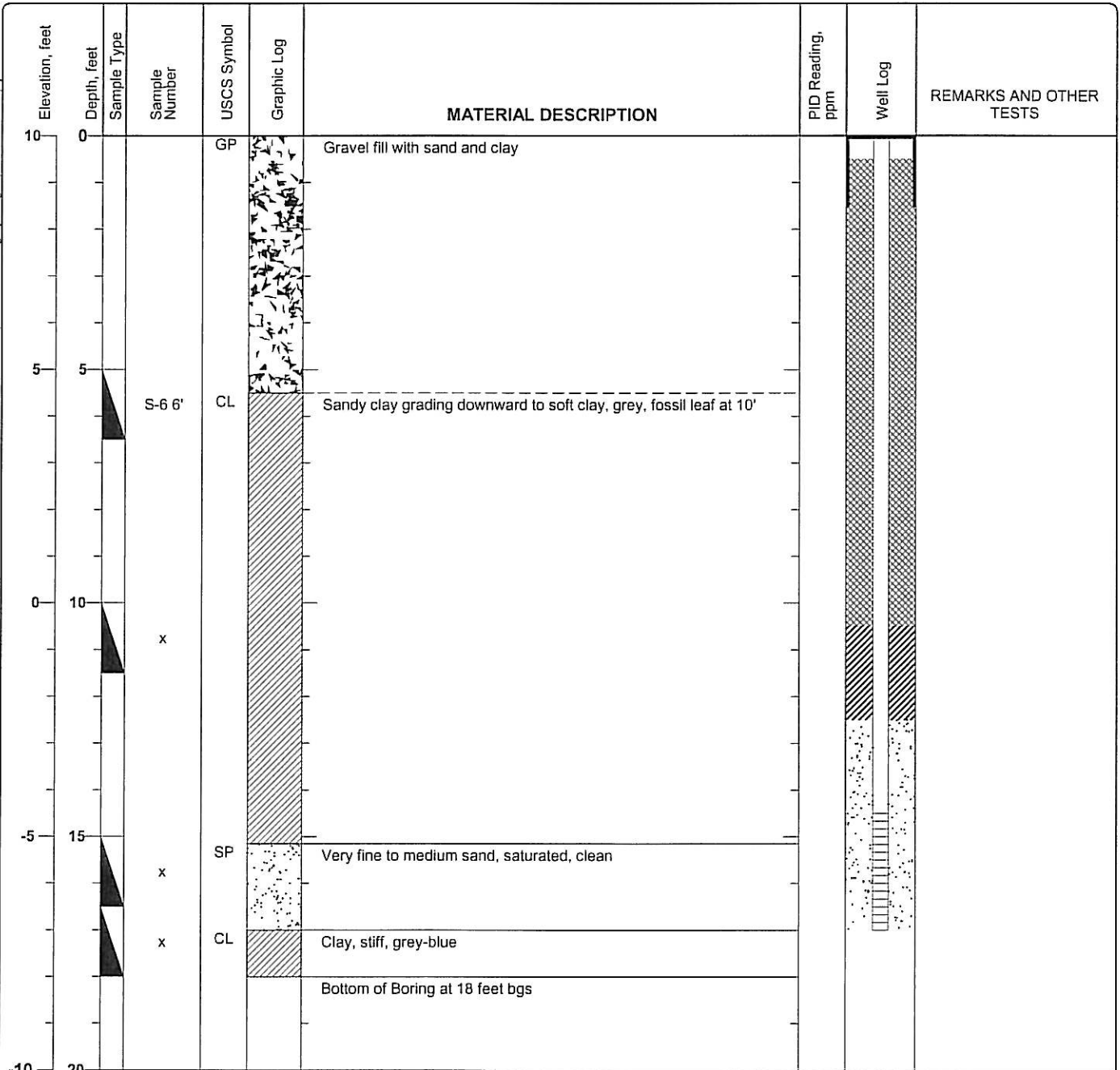
Figure

Project: Cruise America
 Project Location: 796 66th Avenue, Oakland
 Project Number: 8262

Log of Boring S-6
 Sheet 1 of 1

Date(s) Drilled May 17, 2004	Logged By Peter McIntyre	Checked By Robert Flory
Drilling Method Hollow Stem Auger	Drill Bit Size/Type	Total Depth of Borehole 18 feet bgs
Drill Rig Type CME 75	Drilling Contractor HEW	Approximate Surface Elevation 10 feet MSL
Groundwater Level and Date Measured	Sampling Method(s) California	Hammer Data
Borehole Backfill	Location	

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Figure

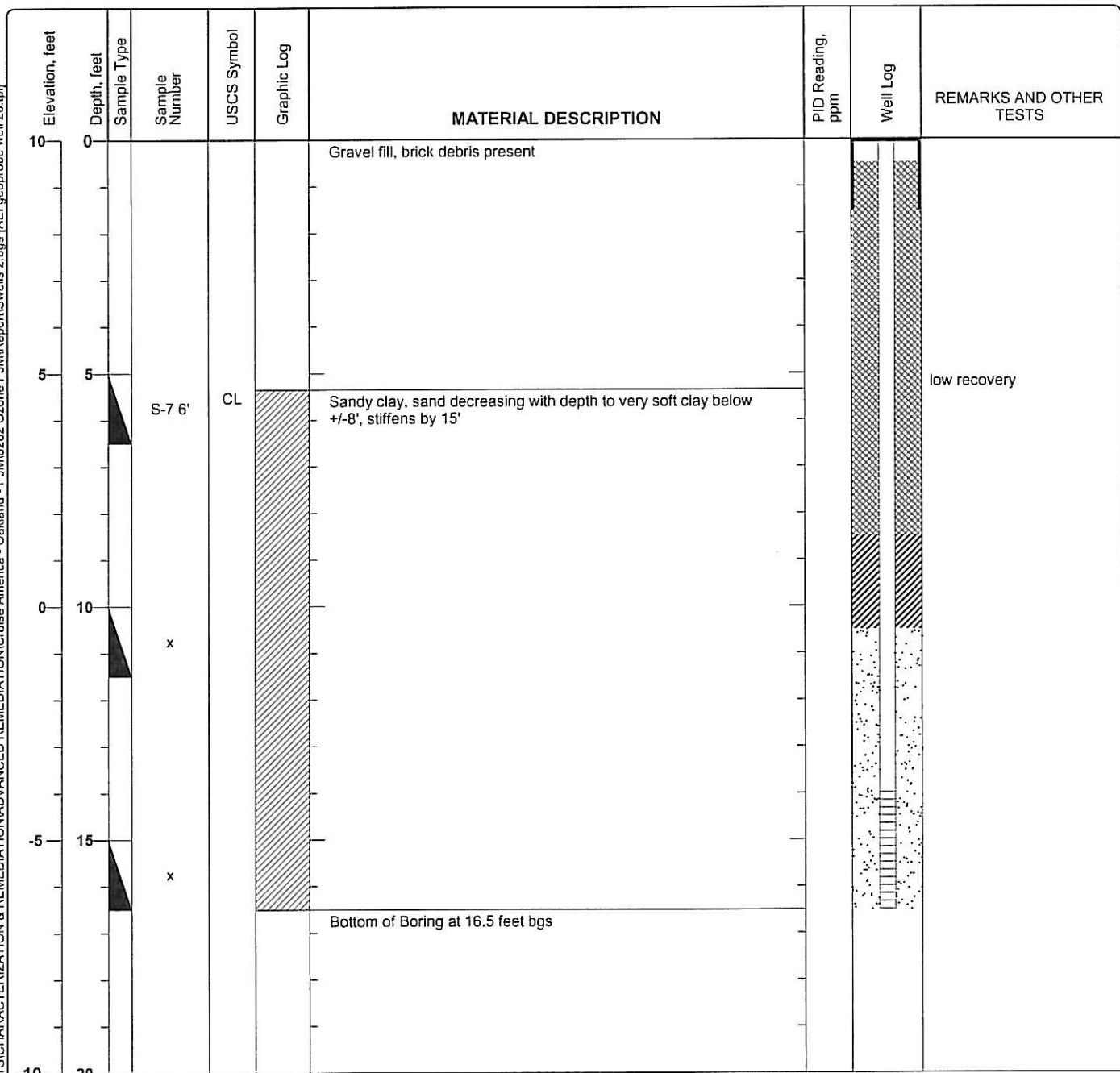
Project: Cruise America
 Project Location: 796 66th Avenue
 Project Number: 8262

Log of Boring S-7

Sheet 1 of 1

Date(s) Drilled: May 18, 2004	Logged By: Peter McIntyre	Checked By: Robert Flory
Drilling Method: Hollow Stem Auger	Drill Bit Size/Type:	Total Depth of Borehole: 16.5 feet bgs
Drill Rig Type: CME 75	Drilling Contractor: HEW	Approximate Surface Elevation: 10 feet MSL
Groundwater Level and Date Measured:	Sampling Method(s): California	Hammer Data:
Borehole Backfill:	Location:	

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Figure

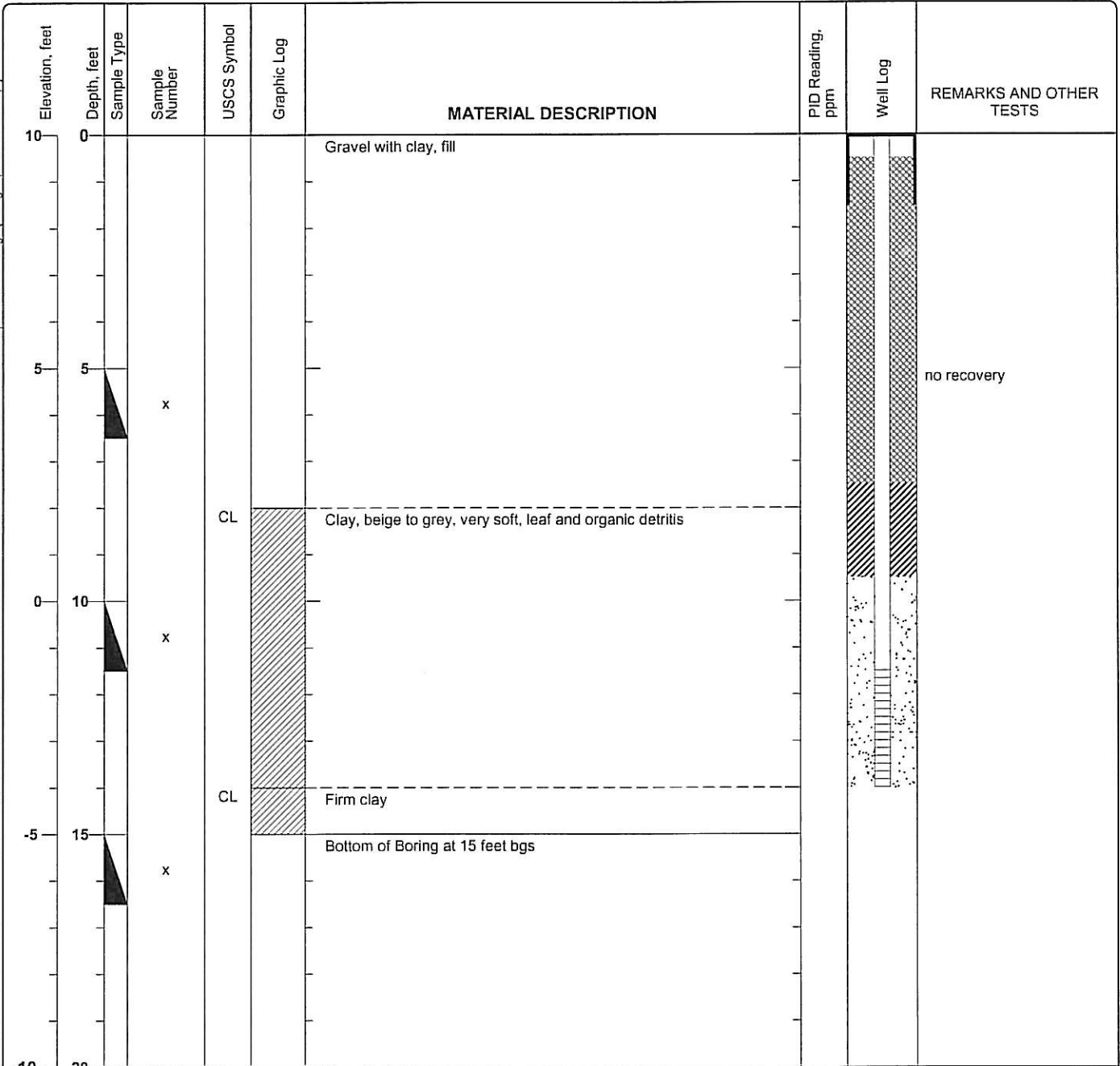
Project: Cruise America
 Project Location: 796 66th Avenue
 Project Number: 8262

Log of Boring S-8

Sheet 1 of 1

Date(s) Drilled: May 18, 2004	Logged By: Peter McIntyre	Checked By: Robert Flory
Drilling Method: Hollow Stem Auger	Drill Bit Size/Type:	Total Depth of Borehole: 15 feet bgs
Drill Rig Type: CME 75	Drilling Contractor: HEW	Approximate Surface Elevation: 10 feet MSL
Groundwater Level and Date Measured:	Sampling Method(s): California	Hammer Data:
Borehole Backfill:	Location:	

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Figure

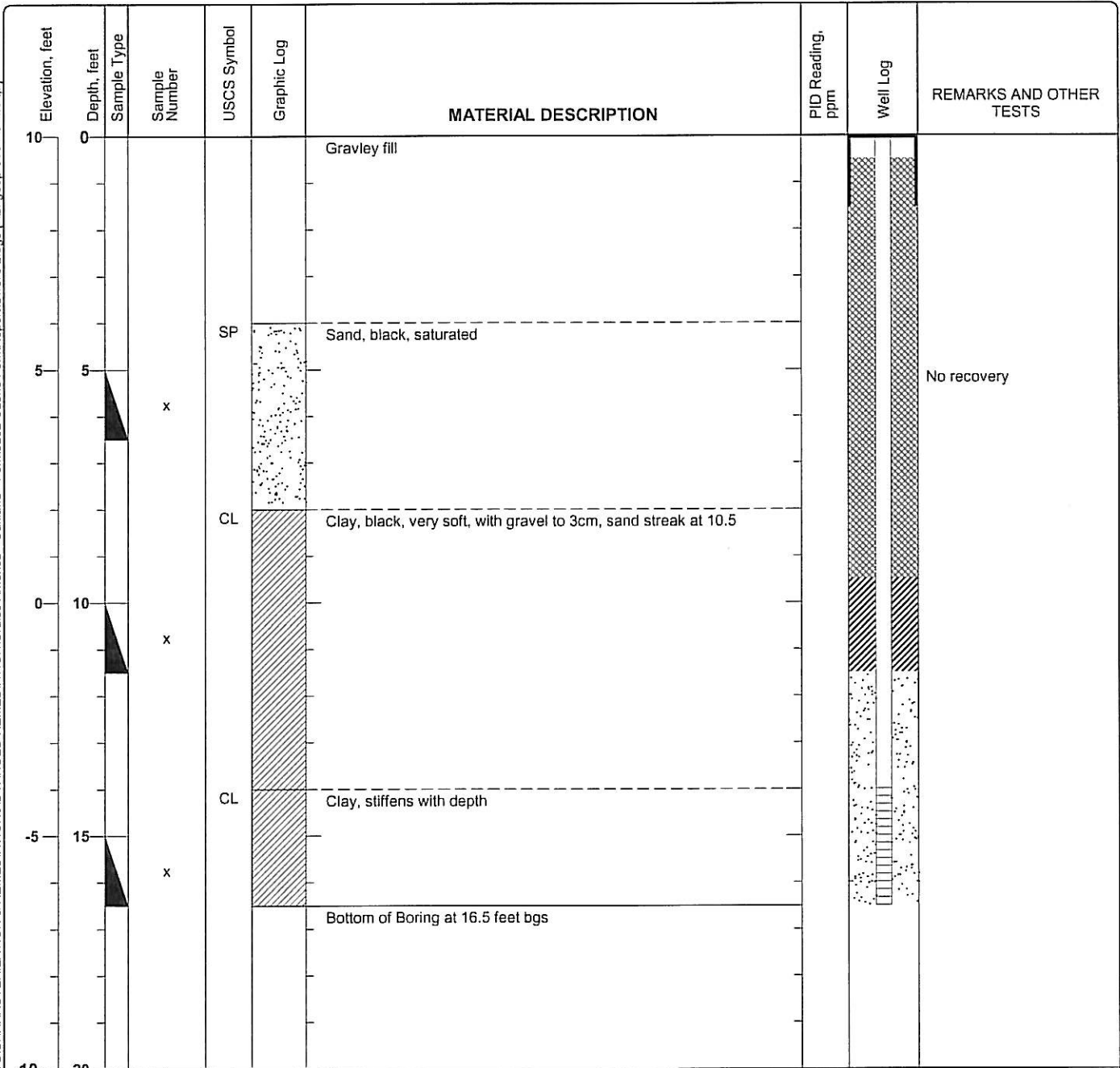
Project: Cruise America
 Project Location: 796 66th Avenue
 Project Number: 8262

Log of Boring S-9

Sheet 1 of 1

Date(s) Drilled May 18, 2004	Logged By Peter McIntyre	Checked By Robert Flory
Drilling Method Hollow Stem Auger	Drill Bit Size/Type	Total Depth of Borehole 16.5 feet bgs
Drill Rig Type CME 75	Drilling Contractor HEW	Approximate Surface Elevation 10 feet MSL
Groundwater Level and Date Measured	Sampling Method(s) California	Hammer Data
Borehole Backfill	Location	

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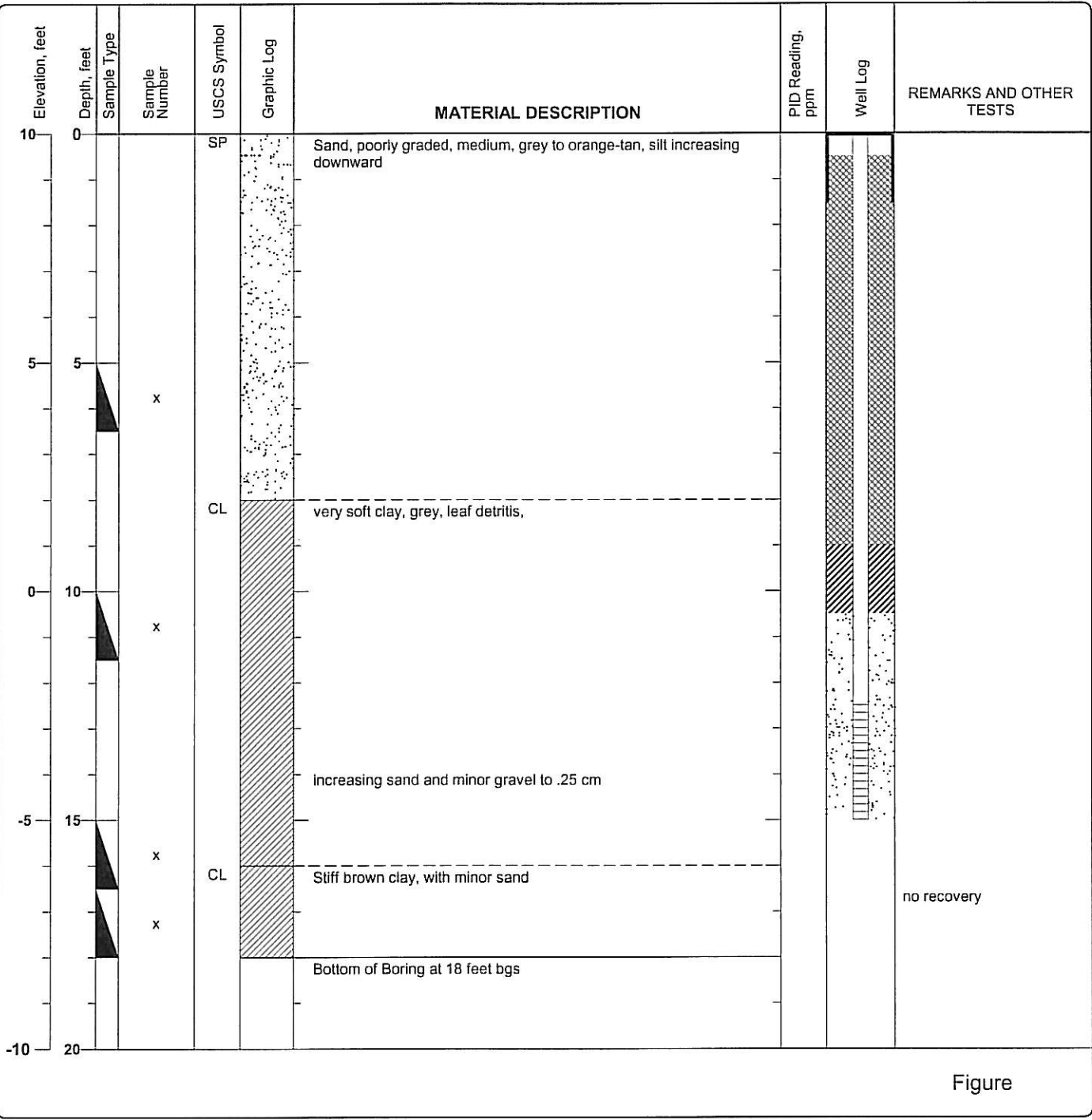
Figure

Project: Cruise America
 Project Location: 796 66th Avenue
 Project Number: 8262

Log of Boring S-10
 Sheet 1 of 1

Date(s) Drilled May 18, 2004	Logged By Peter McIntyre	Checked By Robert Flory
Drilling Method Hollow Stem Auger	Drill Bit Size/Type	Total Depth of Borehole 18 feet bgs
Drill Rig Type CME 75	Drilling Contractor HEW	Approximate Surface Elevation 10 feet MSL
Groundwater Level and Date Measured	Sampling Method(s) California	Hammer Data
Borehole Backfill	Location	

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Figure

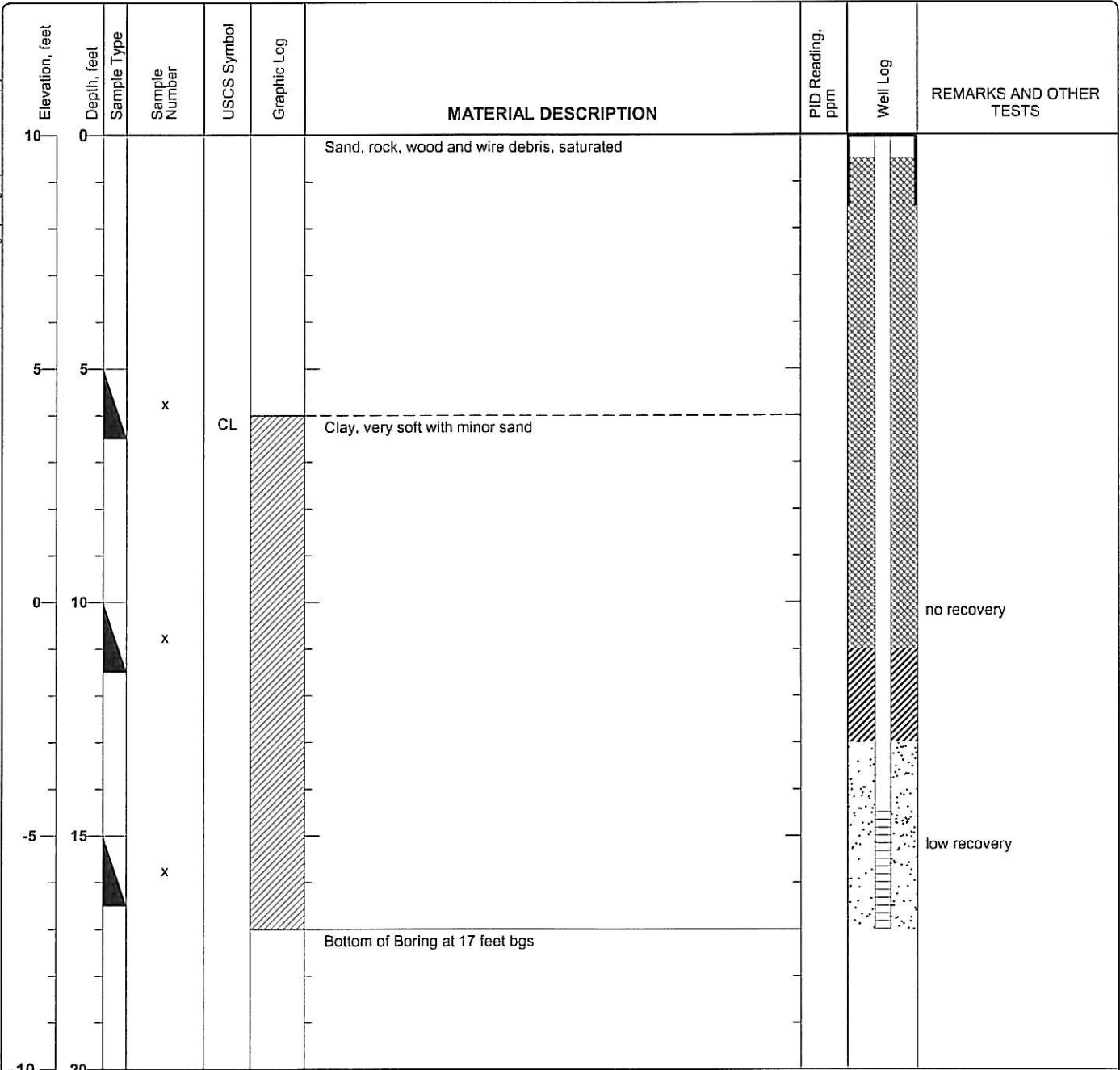
Project: Cruise America
 Project Location: 796 66th Avenue
 Project Number: 8262

Log of Boring S-11

Sheet 1 of 1

Date(s) Drilled May 18, 2004	Logged By Peter McIntyre	Checked By Robert Flory
Drilling Method Hollow Stem Auger	Drill Bit Size/Type	Total Depth of Borehole 17 feet bgs
Drill Rig Type CME 75	Drilling Contractor HEW	Approximate Surface Elevation 10 feet MSL
Groundwater Level and Date Measured	Sampling Method(s) California	Hammer Data
Borehole Backfill	Location	

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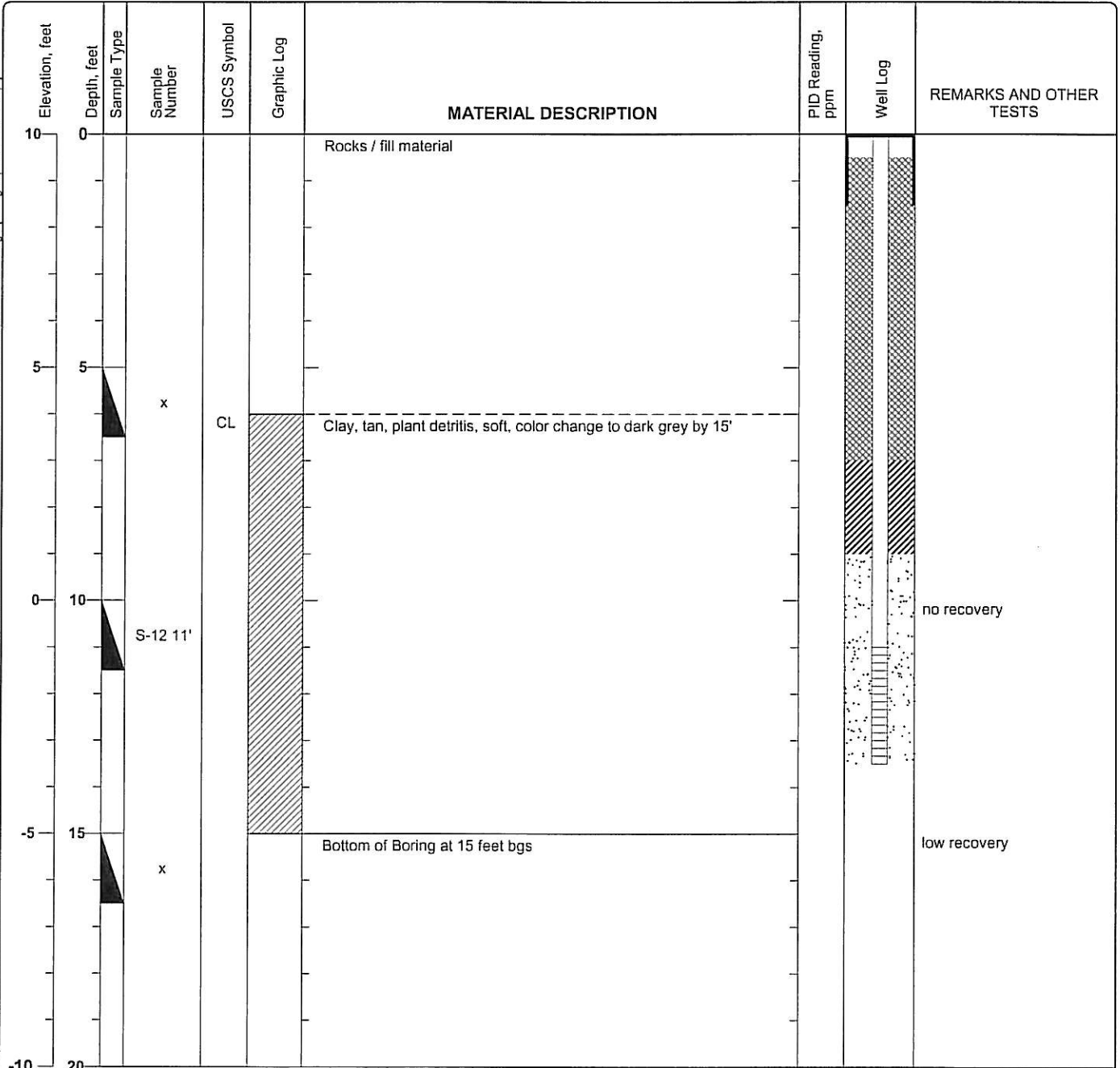
Figure

Project: Cruise America
 Project Location: 796 66th Avenue
 Project Number: 8262

Log of Boring S-12
 Sheet 1 of 1

Date(s) Drilled	May 18, 2004	Logged By	Peter McIntyre	Checked By	Robert Flory
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type		Total Depth of Borehole	15 feet bgs
Drill Rig Type	CME 75	Drilling Contractor	HEW	Approximate Surface Elevation	10 feet MSL
Groundwater Level and Date Measured		Sampling Method(s)	California	Hammer Data	
Borehole Backfill		Location			

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Figure