



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

December 12, 2011

Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Allan A. and Beverly M. Sebanc Trs
2805 Ralston Avenue
Hillsborough, CA 94010-6547

C&H Development Company
Address Unknown

Kenneth McCloskey, Trustee
2805 Ralston Avenue
Hillsborough, CA 94010-6547

Subject: Case Closure for Fuel Leak Case No. RO0002971 and GeoTracker Global ID T0619714590, Shell, 2301-2307 Lincoln Avenue, Alameda, CA 94502

Dear Responsible Parties:

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

SITE INVESTIGATION AND CLEANUP SUMMARY

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

- Total Petroleum Hydrocarbons as gasoline remain in soil at concentrations up to 166 ppm.
- Total Petroleum Hydrocarbons as gasoline remain in groundwater at concentrations up to 13,000 ppb.
- As described in section IV of the attached Case Closure Summary, the case was closed with Site Management Requirements that limit future land use to the current commercial land use only.

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

Sincerely,

A handwritten signature in blue ink, appearing to read "Donna L. Drogos".

Donna L. Drogos, P.E.
Division Chief

Enclosures:

1. Remedial Action Completion Certification
2. Case Closure Summary

cc:

Leroy Griffin (w/enc)
Oakland Fire Department
250 Frank H. Ogawa Plaza, Ste. 3341
Oakland, CA 94612-2032
(Sent via E-mail to: lgriffin@oaklandnet.com)

Peter Schaefer (w/enc)
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
(Sent via E-mail to: pschaefer@croworld.com)

Closure Unit
State Water Resources Control Board
UST Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120
(uploaded to GeoTracker)

Jake Torrens (w/enc)
AMEC Geomatrix
2101 Webster Street, 12th Floor
Oakland, CA 94612
(Sent via E-mail
to: mail to: jake.torrens@amec.com)

Donna Drogos, ACEH (Sent via E-mail to: donna.drogos@acgov.org)
Jerry Wickham, ACEH (Sent via E-mail to: jerry.wickham@acgov.org)

GeoTracker (w/enc)
eFile (w/orig enc)



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
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REMEDIAL ACTION COMPLETION CERTIFICATION

December 12, 2011

Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Allan A. and Beverly M. Sebanc Trs
2805 Ralston Avenue
Hillsborough, CA 94010-6547

C&H Development Company
Address Unknown

Kenneth McCloskey, Trustee
2805 Ralston Avenue
Hillsborough, CA 94010-6547

Subject: Case Closure for Fuel Leak Case No. RO0002971 and GeoTracker Global ID T0619714590, Shell, 2301-2307 Lincoln Avenue, Alameda, CA 94502

Dear Responsible Parties:

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

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

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

Sincerely,


Arlu Levi
Director

Alameda County Environmental Health

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

I. AGENCY INFORMATION

Date: June 28, 2011

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

II. CASE INFORMATION

Site Facility Name: Shell		
Site Facility Address: 2301-2307 Lincoln Avenue, Alameda, California 94501		
RB Case No.: ---	StID No.: --	LOP Case No.: RO0002971
URF Filing Dates: ---	GeoTracker ID: T0619714590	APN: 71-201-12-1
Responsible Parties	Addresses	Phone Numbers
Denis Brown Shell Oil Products US	20945 S. Wilmington Avenue, Carson, CA 90810	(707) 865-0251
C&H Development Company	3744 Mt. Diablo Blvd., Lafayette, CA 94549-3694	No phone number
Allan A. and Beverly M. Sebanc Trs	2805 Ralston Avenue, Hillsborough, CA 94010-6547	(650) 342-7807

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	8,000	Gasoline	Removed	6/1982
2 through 4	5,000	Gasoline	Removed	6/1982
5	560	Gasoline	Removed	6/1982
6 and 7	250	Gasoline	Removed	6/1982
Dispensers and Piping			Removed	6/1982

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. No reports are available to document the removal of the UST systems in 1982.			
Site characterization complete? Yes		Date Approved By Oversight Agency: —	
Monitoring wells installed? Yes		Number: 9	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 6.06		Lowest Depth: 10.0	Flow Direction: South to southwest
Most Sensitive Current Use: Potential drinking water source.			
<p>Summary of Production Wells in Vicinity: The following production wells are in the vicinity of the site:</p> <ul style="list-style-type: none"> • The nearest water supply well is a 206-foot deep agricultural/irrigation well located approximately 500 feet northwest of the site. Based on the distance from the site, crossgradient location, and limited extent of the dissolved phase plume, the agricultural/irrigation well is not expected to be a receptor for the site. • A 325-foot deep domestic water supply well is located approximately 1,050 feet south southwest of the site. Based on the distance from the site and limited extent of the dissolved phase plume, the domestic water supply well is not expected to be a receptor for the site. • A shallow irrigation well is located approximately 1,300 feet northwest of the site. Based on the distance from the site, crossgradient location, and limited extent of the dissolved phase plume, the shallow irrigation well is not expected to be a receptor for the site. • Two industrial wells are located approximately 1,400 feet northeast of the site. Based on the distance from the site, crossgradient location, and limited extent of the dissolved phase plume, the industrial water supply wells are not expected to be receptors for the site. • A shallow irrigation well is located approximately 1,450 feet east northeast of the site. Based on the distance from the site, crossgradient location, and limited extent of the dissolved phase plume, the shallow irrigation well is not expected to be a receptor for the site. • No other water supply wells are located within 1,500 feet of the site. 			
Are drinking water wells affected? No		Aquifer Name: East Bay Plain	
Is surface water affected? No		Nearest SW Name: The Alameda Tidal Canal is approximately 2,000 feet northeast of the site.	
Off-Site Beneficial Use Impacts (Addresses/Locations): None			
Reports on file? Yes		Where are reports filed? Alameda County Environmental Health	
TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	One 8,000-gallon UST	Not reported	6/1982
Tank	Three 5,000-gallon USTs	Not reported	6/1982
Tank	One 560-gallon UST	Not reported	6/1982
Tank	Two 250-gallon USTs	Not reported	6/1982
Piping	Not Reported	Not Reported	6/1982
Free Product	---	---	---
Soil	56 tons	The soil was transported to Keller Canyon Landfill in Pittsburg, CA for disposal.	April 12 and 14, 2011
Groundwater	---	---	---

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
 (Please see Attachments 2 – 4 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Groundwater (ppb)	
	Before	After	Before	After
TPH (Gas)	7,900	166	13,000	13,000
TPH (Diesel)	54	54	1,700	1,700
TPH (Motor Oil)	450	450	<250	<250
Benzene	0.99	0.99	980(1)	200(1)
Toluene	<0.27	<0.27	19	19
Ethylbenzene	120	120	490 (1)	200 (1)
Xylenes	150	150	130	130
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	150 (2)	150 (2)	Not analyzed	Not analyzed
MTBE (EPA 8020/EPA 8260)	<0.5 (3)	<0.5 (3)	<5.0 (4)	<5.0 (4)
Other (8240/8270)	Not analyzed	Not analyzed	Not analyzed	Not analyzed

(1) The maximum concentration before cleanup is from a grab groundwater sample collected from boring EB-1 on 08/16/2007; the maximum concentration after cleanup is from a groundwater sample collected from well MW-4 during the most recent complete groundwater monitoring event on 05/05/2010.

(2) Lead = 150 ppm; no metals analyzed other than lead.

(3) MTBE <0.5; TBA, DIPE, ETBE, TAME, EDB, and EDC not detected at various reporting limits.

(4) MTBE <5.0; TBA, DIPE, ETBE, TAME, EDB, and EDC not detected at various reporting limits.

Site History and Description of Corrective Actions:

The site is currently a retail center located at the corner of Lincoln Avenue and Oak Street in Alameda, California. Surrounding land use is mixed commercial and residential. The site reportedly operated as a gasoline service station from 1926 until 1982. Underground storage tanks were installed at the site in 1958 with additional USTs installed in 1970.

USTs were installed in two separate areas referred to as the western and eastern tank areas. Sometime between 1950 and 1965, the original service station in the southwestern corner of the site was demolished and a second service station that covered the entire site was constructed. In 1982, the USTs and service station were removed and the site was redeveloped into the current retail center.

A Phase II Environmental Site Assessment was performed by Basics Environmental in 1999. Six soil borings (SB-1 through SB-6) were advanced in the western portion of the site. One soil sample was collected from each soil boring and grab groundwater samples were collected from five of the six borings. Total petroleum hydrocarbons as gasoline (TPHg) were detected in soil and groundwater at concentrations up to 40 ppm and 4,500 ppb, respectively.

In August 2000, Toxichem Management Systems, Inc. conducted a site assessment that included a review of the previous site investigation data, aerial photos, Sanborn maps, and agency files.

In February 2007, Geomatrix installed three groundwater monitoring wells (MW-1 through MW-3) in the western UST area and advanced 11 soil borings (EB-1 through EB-6 and EB-8 through EB-11) in the eastern UST and dispenser area. Soil samples contained up to 1,600 ppm of TPHg and 0.99 ppm of benzene. Grab groundwater samples collected from the wells and exploratory borings contained up to 7,000 ppb of TPHg and 980 ppb of benzene.

In February 2009, Conestoga-Rovers & Associates installed five monitoring wells (MW-4 through MW-8), installed five soil vapor probes (SVP-1 through SVP-5), and advanced three soil borings (B-5, B-7, and B-8). TPHg was detected in soil at concentrations up to 7,900 ppm. Benzene, toluene, and MTBE were not detected at concentrations exceeding reporting limits in soil. TPHg and benzene were detected in grab groundwater samples from the soil borings at concentrations up to 470 ppb and 2 ppb, respectively. Soil vapor from probe SVP-5 contained TPHg at a concentration of 11,000,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) and benzene at a concentration of 12,000 $\mu\text{g}/\text{m}^3$.

In March 2010, CRA installed one groundwater monitoring well (MW-9), installed four soil vapor probes (SVP-5A and SVP-6 through SVP-8), and reinstalled one soil vapor probe (SVP-4). No TPHg or BTEX were detected at concentrations exceeding reporting limits in soil samples collected from the MW-9 soil boring.

Six soil vapor probes were sampled in June and July 2010. TPHg and ethylbenzene were detected in soil vapor collected from 5 feet bgs from probe SVP-5 at concentrations of 8,400,000 and 14,000 $\mu\text{g}/\text{m}^3$, respectively. The concentrations of TPHg, BTEX, and MTBE were less than reporting limits in the remaining soil vapor samples.

In July 2010, one off-site boring (B-6) was advanced at a former 76 station located immediately west of the site. No TPHg, TPHd, TPHmo, BTEX, or fuel oxygenates were detected in soil samples from boring B-6. TPHg, BTEX, and fuel oxygenates were not detected at concentrations exceeding reporting limits in the grab groundwater sample collected from off-site boring B-6. TPHd was detected in the grab groundwater sample at a concentration of 56 ppb.

Groundwater monitoring wells MW-1 through MW-3 were initially sampled in August 2007. Quarterly groundwater monitoring was conducted at the site from March 2009 up to September 2010. Groundwater monitoring was suspended following the September 2010 sampling event.

In March 2011, soil vapor probe SVP-9 was installed in the eastern tank area. A soil vapor sample collected from 4.5 feet bgs in SVP-9 contained 18,000 $\mu\text{g}/\text{m}^3$ of TPHg and 52 $\mu\text{g}/\text{m}^3$ of benzene. A soil vapor sample collected from 2.0 feet bgs in SVP-9 did not contain TPHg or BTEX at concentrations exceeding reporting limits.

Two excavations were advanced at the site between April 11 and April 19, 2011. One excavation was advanced in the eastern tank area surrounding soil vapor probe SVP-5 to remove residual petroleum hydrocarbons. A second excavation was advanced in the area of the former dispensers to remove soil with residual lead. The petroleum excavation extended to a depth of approximately 13.5 feet bgs. Confirmation soil samples from the petroleum excavation contained up to 166 ppm of TPHg, 0.05 ppm of benzene, and 2.24 ppm of ethylbenzene. Toluene, xylenes, and MTBE were not detected in the confirmation soil samples. Confirmation soil samples from the lead excavation contained soil at concentrations of 15 to 150 ppm. Approximately 56 tons of soil was excavated and disposed off-site at the Keller Canyon Landfill in Pittsburg, California.

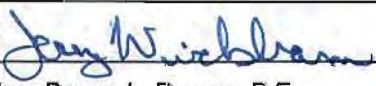
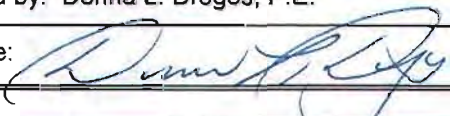
IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
<p>Site Management Requirements:</p> <p>Case closure for this fuel leak site is granted for the current commercial land use only. If a change in land use to any residential or other conservative land use scenario occurs at this site, Alameda County Environmental Health (ACEH) must be notified as required by Government Code Section 65850.2.2. ACEH will re-evaluate the case upon receipt of approved development/construction plans.</p> <p>Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.</p>		
Should corrective action be reviewed if land use changes? Yes		
Was a deed restriction or deed notification filed? No		Date Recorded: ---
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 9
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: ---		

V. ADDITIONAL COMMENTS, DATA, ETC.

<p>Considerations and/or Variances:</p> <p>A former oil sump associated with the former service station was not investigated as part of this fuel leak case. The former oil sump was located beneath the current retail center building.</p> <p>Conclusion:</p> <p>Alameda County Environmental Health (ACEH) staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment under the current commercial land use based upon the information available in our files to date. No further investigation or cleanup is necessary unless a change in land use to any residential or other conservative land use scenario occurs at the site. ACEH staff recommend case closure for this site.</p>
--

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham	Title: Senior Hazardous Materials Specialist
Signature: 	Date: 10/26/11
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature: 	Date: 10/26/11

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

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Notification Date: 10/26/11	

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 10/27/11	Date of Well Decommissioning Report: 12/5/11	
All Monitoring Wells Decommissioned: Yes	Number Decommissioned: 12	Number Retained: 0
Reason Wells Retained: ---		
Additional requirements for submittal of groundwater data from retained wells: ---		
ACEH Concurrence - Signature: <i>Jerry Wickham</i>	Date: 12/8/11	

Attachments:

1. Vicinity Map and Aerial Photo (2 pp)
2. Site Plans (2 pp)
3. Groundwater Contour Map and Chemical Concentration Maps (7 pp)
4. Soil and Soil Vapor Analytical Data (7 pp)
5. Groundwater Analytical Data (6 pp)
6. Boring Logs (47 pp)

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

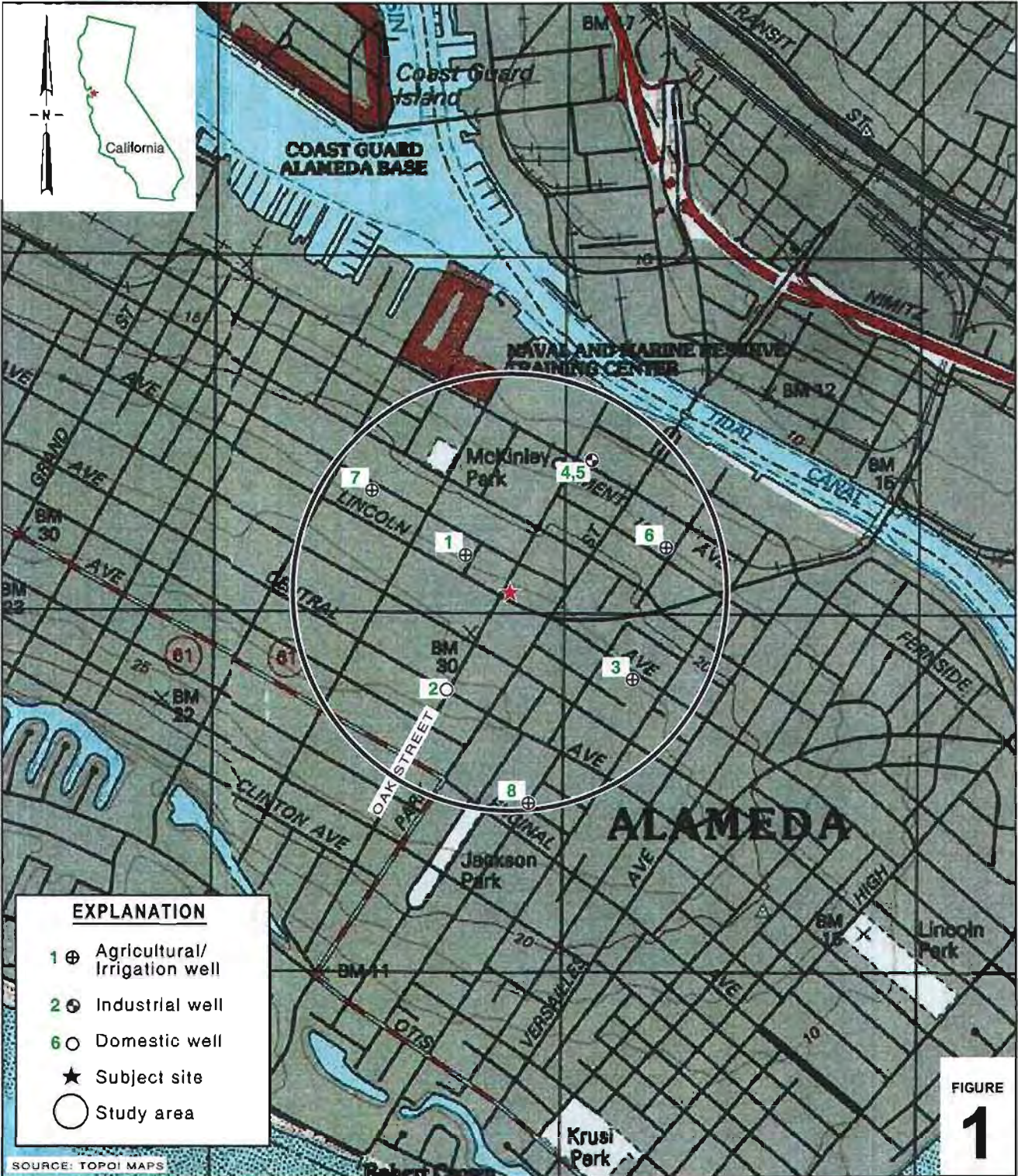
Wickham, Jerry, Env. Health

From: Wickham, Jerry, Env. Health
Sent: Wednesday, October 26, 2011 3:18 PM
To: Cherie McCaulou
Subject: Pending closure for 2301-2307 Lincoln, Alameda
Attachments: RO2971 closure summary.pdf

Hi Cherie,

This email provides notification of pending closure for ACEH case RO2971, 2301-2307 Lincoln Avenue, Alameda.

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
phone: 510-567-6791
jerry.wickham@acgov.org



I:\SHELL\chairs\0602 -\060204-Alameda\2301-2307 Lincoln Ave\060204 FIGURES\060204 VICINITY.A1

Former Shell Service Station
 2301-2307 Lincoln Avenue
 Alameda, California



**CONESTOGA-ROVERS
 & ASSOCIATES**

Vicinity Map

ATTACHMENT 1



2301 Lincoln Ave, Alameda, CA 94501

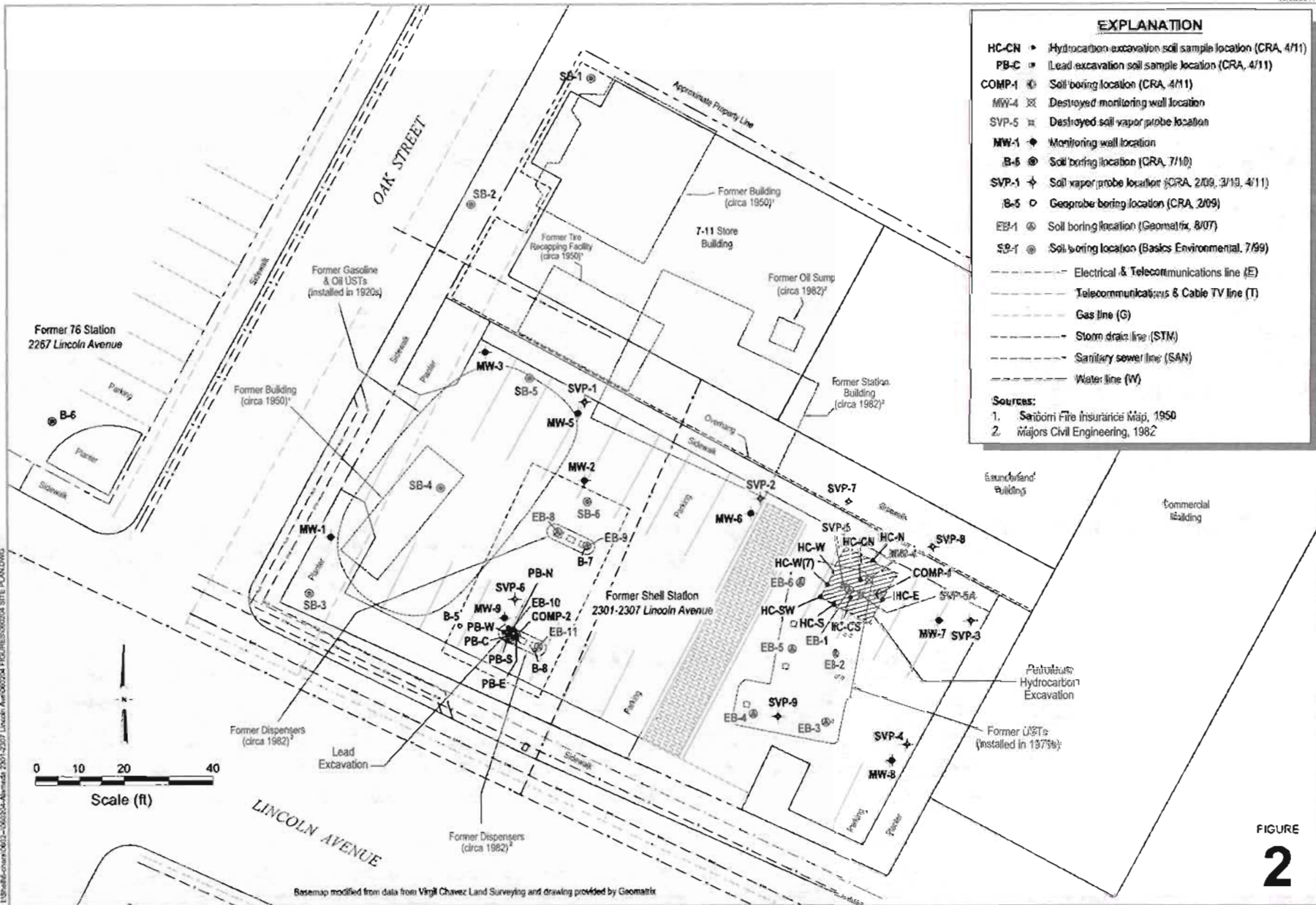
Google

© 2011 Google

Imagery Date 10/1/2009

37°46'02.00" N 122°14'31.74" W elev 29 ft

Eye alt 605'ft



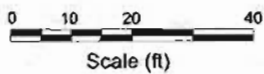
EXPLANATION

- HC-CN ◈ Hydrocarbon excavation soil sample location (CRA, 4/11)
- PB-C ◻ Lead excavation soil sample location (CRA, 4/11)
- COMP-1 ⊕ Soil boring location (CRA, 4/11)
- MW-4 ⊗ Destroyed monitoring well location
- SVP-5 ⊗ Destroyed soil vapor probe location
- MW-1 ◆ Monitoring well location
- B-5 ⊕ Soil boring location (CRA, 7/10)
- SVP-1 ⊕ Soil vapor probe location (CRA, 2/09, 3/10, 4/11)
- B-5 ⊕ Geoprobe boring location (CRA, 2/09)
- EB-1 ⊕ Soil boring location (Geomatrix, 8/07)
- SVP-1 ⊕ Soil boring location (Basics Environmental, 7/99)

- Electrical & Telecommunications line (E)
- Telecommunications & Cable TV line (T)
- Gas line (G)
- Storm drain line (STM)
- Sanitary sewer line (SAN)
- Water line (W)

Sources:

1. Sanborn Fire Insurance Map, 1950
2. Majors Civil Engineering, 1982



Basemap modified from data from Virgil Chavez Land Surveying and drawing provided by Geomatrix

Site Plan



Former Shell Service Station
 2301-2307 Lincoln Avenue
 Alameda, California

FIGURE
2

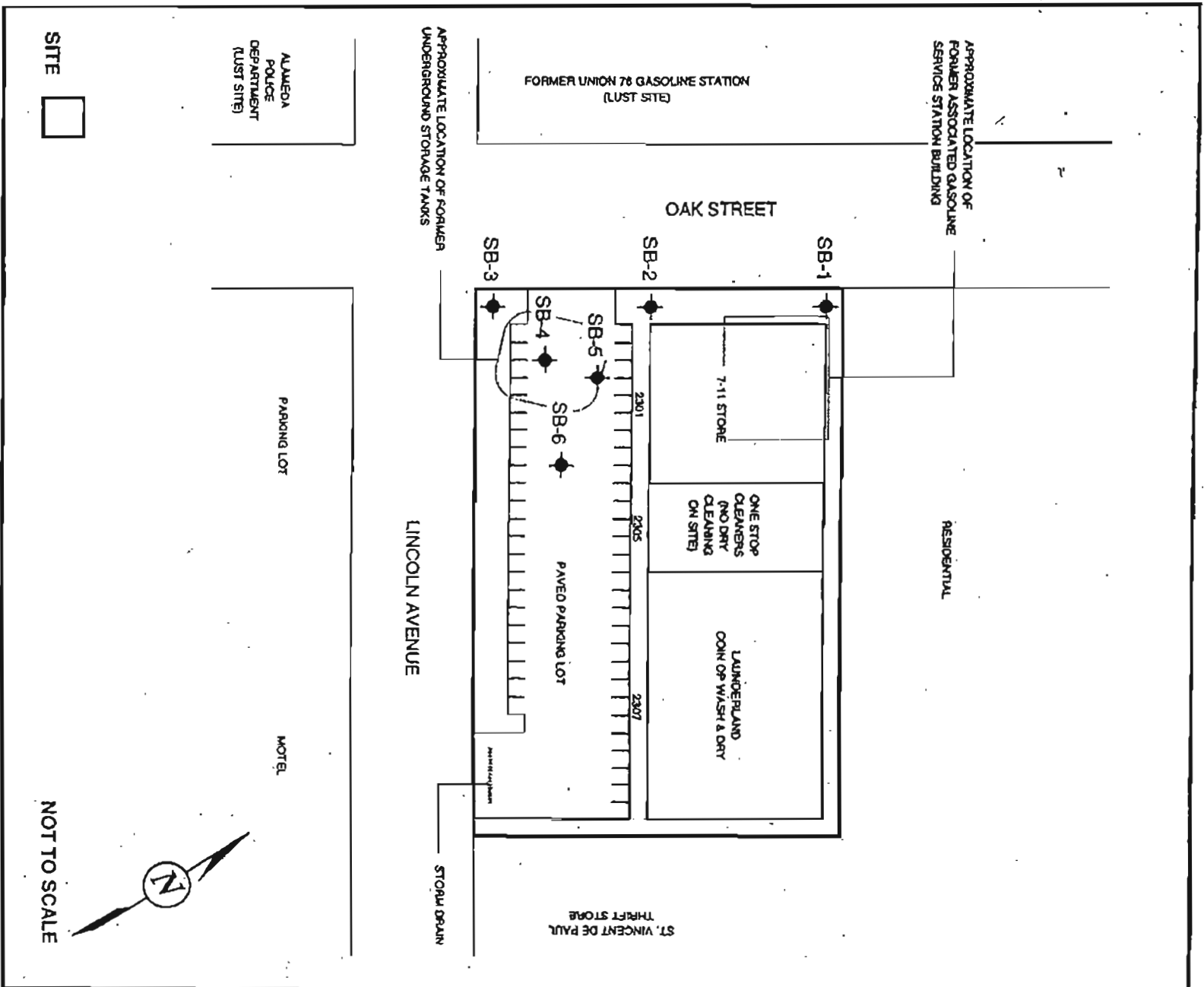
I:\S\Shell\06012-000204-Alameda 2301-2307 Lincoln Ave\0204 FIGURES\0204 SITE PLAN.DWG

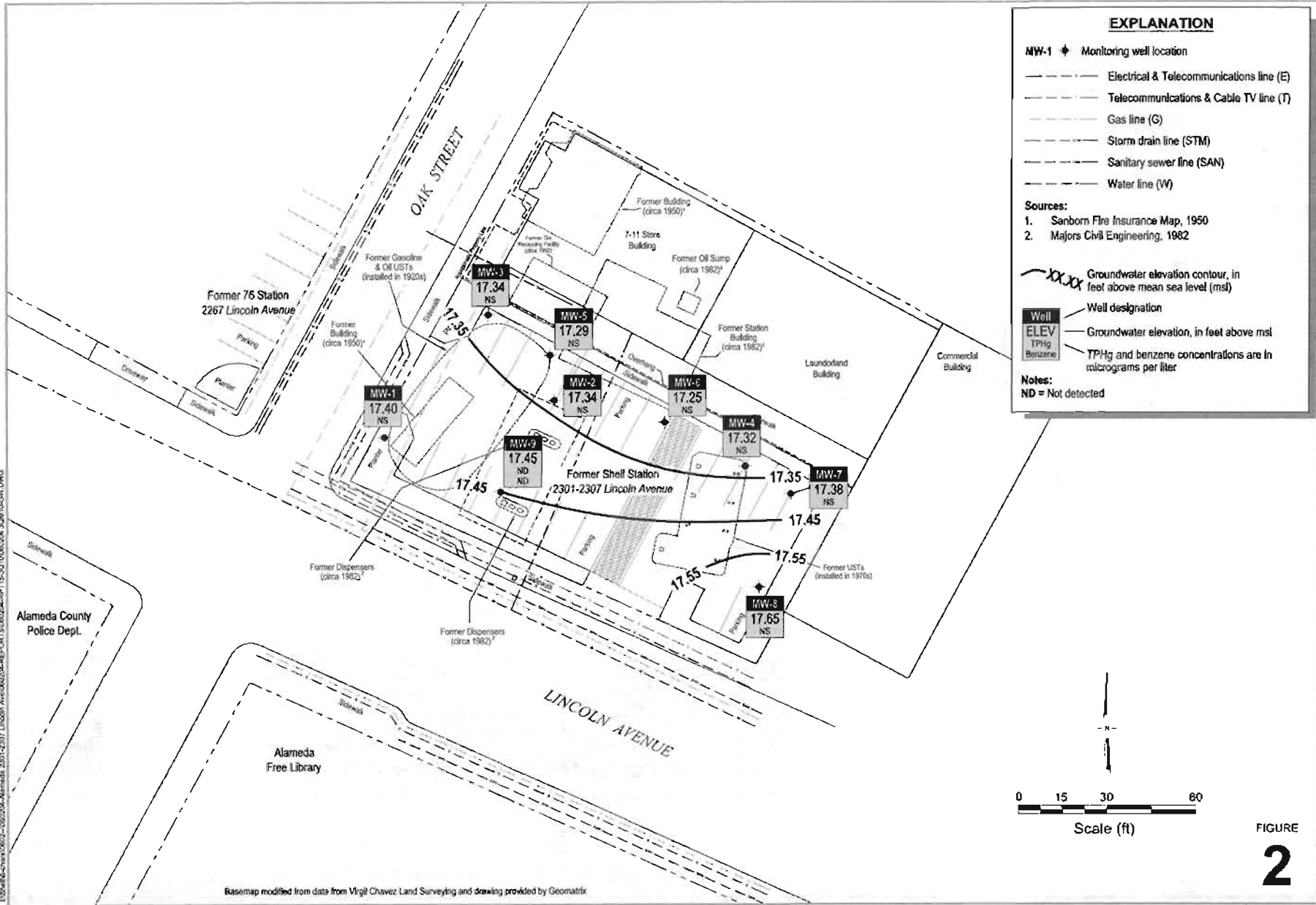


Limited Phase II Environmental Site Investigation
2301-2307 Lincoln Avenue
Alameda, California

PROJECT NO. 99-ENV168A
DRAWING NO. 2

Soil Test Boring Locations



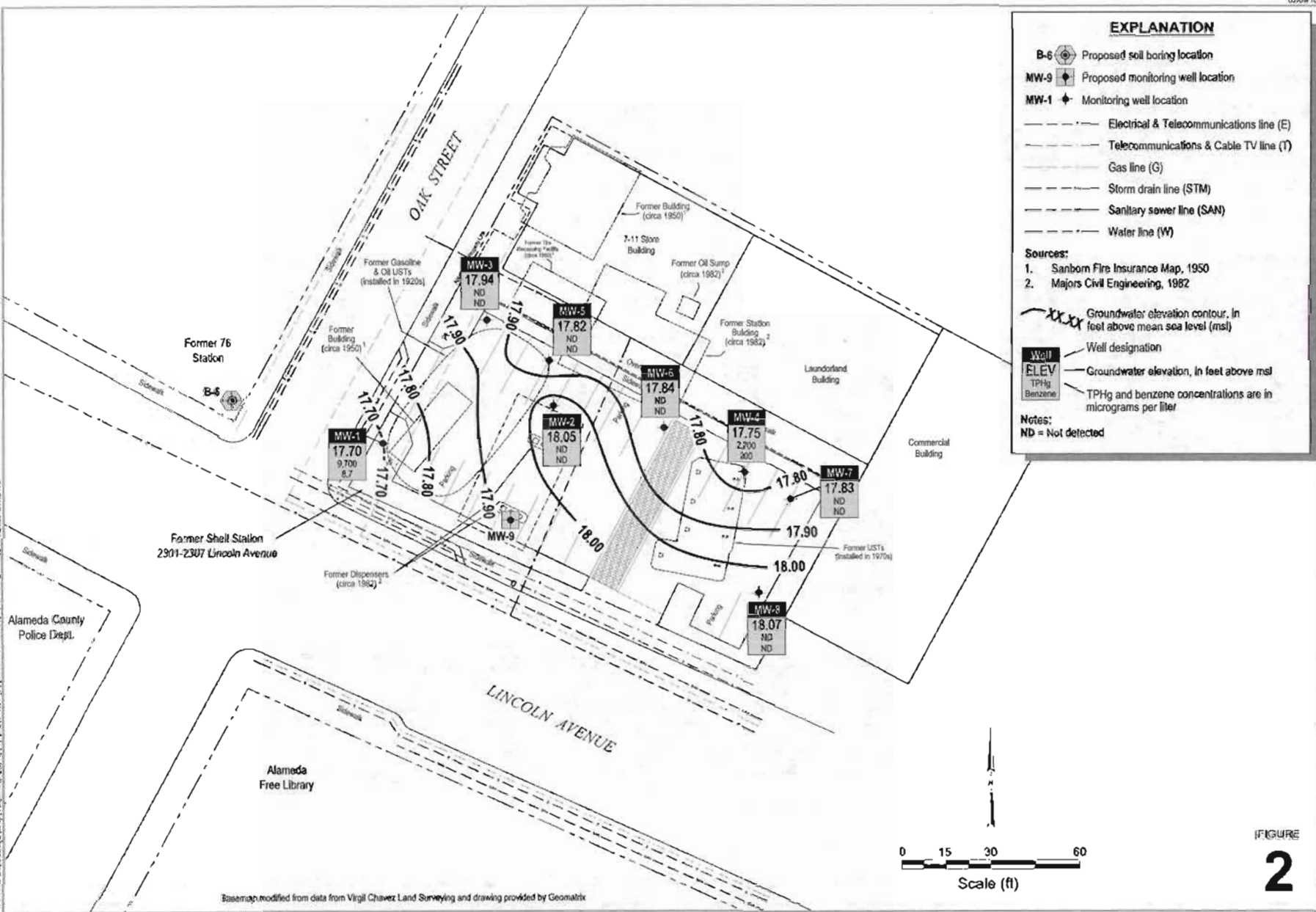


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Basemap modified from data from Virgil Chavez Land Surveying and drawing provided by Geomatix



FIGURE
2



LS:\shell-chp\1305_2857\alameda_2901_2307\map\1305-REP\CONCEN-2901-2307.dwg

Base map modified from data from Virgil Chavez Land Surveying and drawing provided by Geomatrix

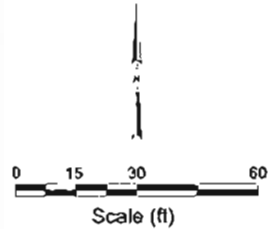
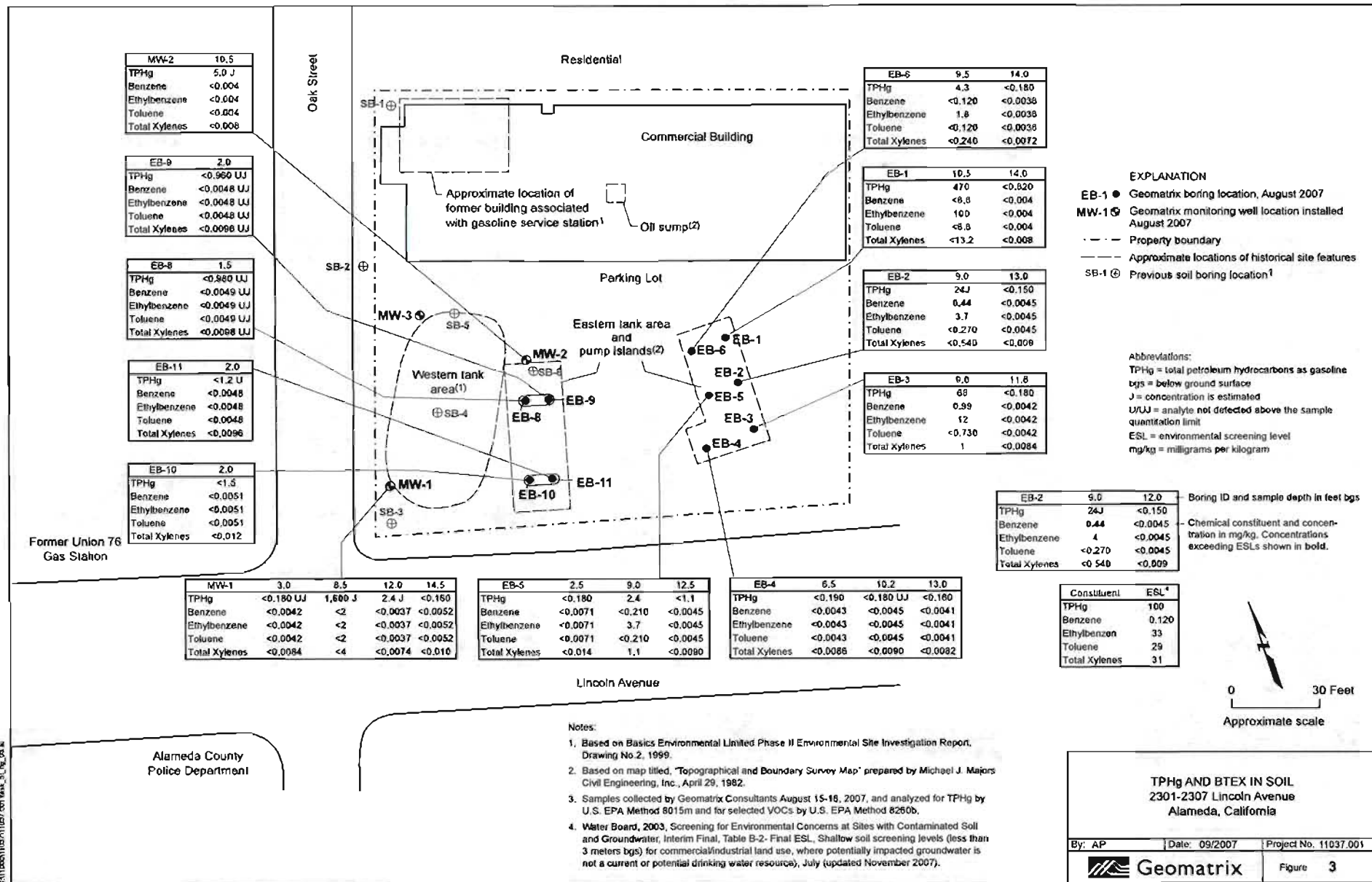


FIGURE 2



MW-2	10.5
TPHg	5.0 J
Benzene	<0.004
Ethylbenzene	<0.004
Toluene	<0.004
Total Xylenes	<0.008

EB-9	2.0
TPHg	<0.960 UJ
Benzene	<0.0048 UJ
Ethylbenzene	<0.0048 UJ
Toluene	<0.0048 UJ
Total Xylenes	<0.0096 UJ

EB-8	1.5
TPHg	<0.880 UJ
Benzene	<0.0049 UJ
Ethylbenzene	<0.0049 UJ
Toluene	<0.0049 UJ
Total Xylenes	<0.0098 UJ

EB-11	2.0
TPHg	<1.2 U
Benzene	<0.0048
Ethylbenzene	<0.0048
Toluene	<0.0048
Total Xylenes	<0.0096

EB-10	2.0
TPHg	<1.5
Benzene	<0.0051
Ethylbenzene	<0.0051
Toluene	<0.0051
Total Xylenes	<0.012

EB-6	9.5	14.0
TPHg	4.3	<0.180
Benzene	<0.120	<0.0036
Ethylbenzene	1.8	<0.0038
Toluene	<0.120	<0.0038
Total Xylenes	<0.240	<0.0072

EB-1	10.5	14.0
TPHg	470	<0.620
Benzene	<8.8	<0.004
Ethylbenzene	10.0	<0.004
Toluene	<8.8	<0.004
Total Xylenes	<13.2	<0.008

EB-2	9.0	13.0
TPHg	24J	<0.150
Benzene	0.44	<0.0045
Ethylbenzene	3.7	<0.0045
Toluene	<0.270	<0.0045
Total Xylenes	<0.540	<0.009

EB-3	9.0	11.8
TPHg	68	<0.180
Benzene	0.99	<0.0042
Ethylbenzene	12	<0.0042
Toluene	<0.730	<0.0042
Total Xylenes	1	<0.0084

MW-1	3.0	8.5	12.0	14.5
TPHg	<0.180 UJ	1,600 J	2.4 J	<0.150
Benzene	<0.0042	<2	<0.0037	<0.0052
Ethylbenzene	<0.0042	<2	<0.0037	<0.0052
Toluene	<0.0042	<2	<0.0037	<0.0052
Total Xylenes	<0.0084	<4	<0.0074	<0.010

EB-5	2.5	9.0	12.5
TPHg	<0.180	2.4	<1.1
Benzene	<0.0071	<0.210	<0.0045
Ethylbenzene	<0.0071	3.7	<0.0045
Toluene	<0.0071	<0.210	<0.0045
Total Xylenes	<0.014	1.1	<0.0080

EB-4	6.5	10.2	13.0
TPHg	<0.190	<0.180 UJ	<0.180
Benzene	<0.0043	<0.0045	<0.0041
Ethylbenzene	<0.0043	<0.0045	<0.0041
Toluene	<0.0043	<0.0045	<0.0041
Total Xylenes	<0.0086	<0.0090	<0.0082

EB-2	9.0	12.0
TPHg	24J	<0.150
Benzene	0.44	<0.0045
Ethylbenzene	4	<0.0045
Toluene	<0.270	<0.0045
Total Xylenes	<0.540	<0.009

Constituent	ESL ⁴
TPHg	100
Benzene	0.120
Ethylbenzene	33
Toluene	29
Total Xylenes	31

EXPLANATION
 EB-1 ● Geomatrix boring location, August 2007
 MW-1 ⊕ Geomatrix monitoring well location installed August 2007
 - - - Property boundary
 --- Approximate locations of historical site features
 SB-1 ⊕ Previous soil boring location¹

Abbreviations:
 TPHg = total petroleum hydrocarbons as gasoline bgs = below ground surface
 J = concentration is estimated
 U/UJ = analyte not detected above the sample quantitation limit
 ESL = environmental screening level
 mg/kg = milligrams per kilogram

Boring ID and sample depth in feet bgs
 Chemical constituent and concentration in mg/kg. Concentrations exceeding ESLs shown in bold.

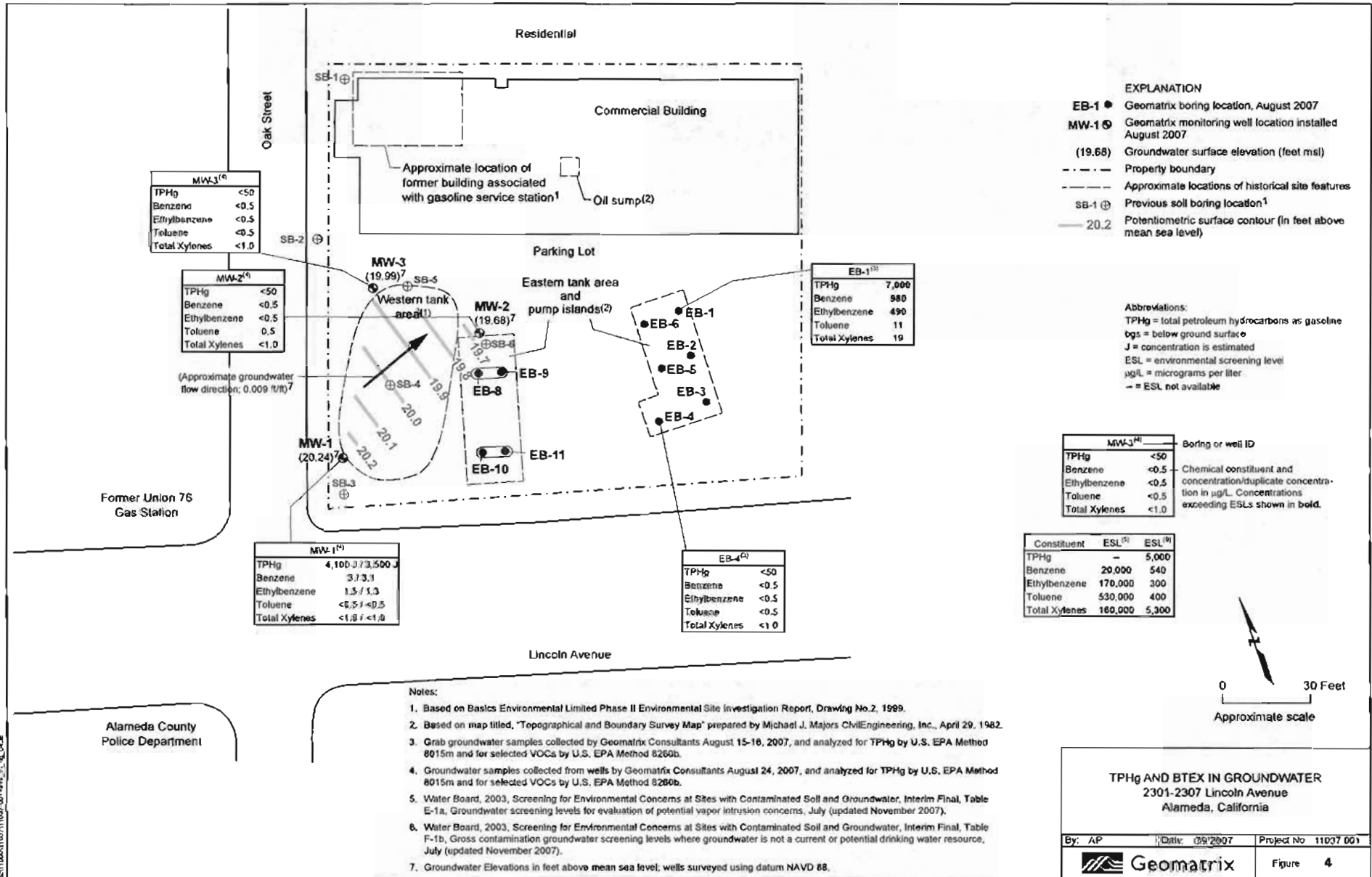
- Notes:**
- Based on Basics Environmental Limited Phase II Environmental Site Investigation Report, Drawing No.2, 1999.
 - Based on map titled, "Topographical and Boundary Survey Map" prepared by Michael J. Majors Civil Engineering, Inc., April 29, 1982.
 - Samples collected by Geomatrix Consultants August 15-16, 2007, and analyzed for TPHg by U.S. EPA Method 8015m and for selected VOCs by U.S. EPA Method 8260b.
 - Water Board, 2003, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, Table B-2: Final ESL, Shallow soil screening levels (less than 3 meters bgs) for commercial/industrial land use, where potentially impacted groundwater is not a current or potential drinking water resource), July (updated November 2007).

TPHg AND BTEX IN SOIL
 2301-2307 Lincoln Avenue
 Alameda, California

By: AP Date: 09/2007 Project No. 11037.001

Geomatrix Figure 3

S:\11037\11037\11037.dwg



4/11/2008 11:07:10 AM / 10/27/2007 10:00 AM / 10/27/2007 10:00 AM / 10/27/2007 10:00 AM

EXPLANATION

- HC-CN • Hydrocarbon excavation soil sample location (CRA, 4/11)
- PB-C • Lead excavation soil sample location (CRA, 4/11)

Sample ID	Sample Date	Sample Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
PB-E-2	04/11/2011	2.0	<0.097	<0.0049	<0.0049	<0.0049	<0.0097	35.6

Notes:
 Soil sample ID, date, depth in feet below grade (fbg), and concentrations in milligrams per kilogram (mg/kg)
 NA = Not analyzed
 TPHg = Total petroleum hydrocarbons as gasoline
 <X = Not detected at reporting limit X

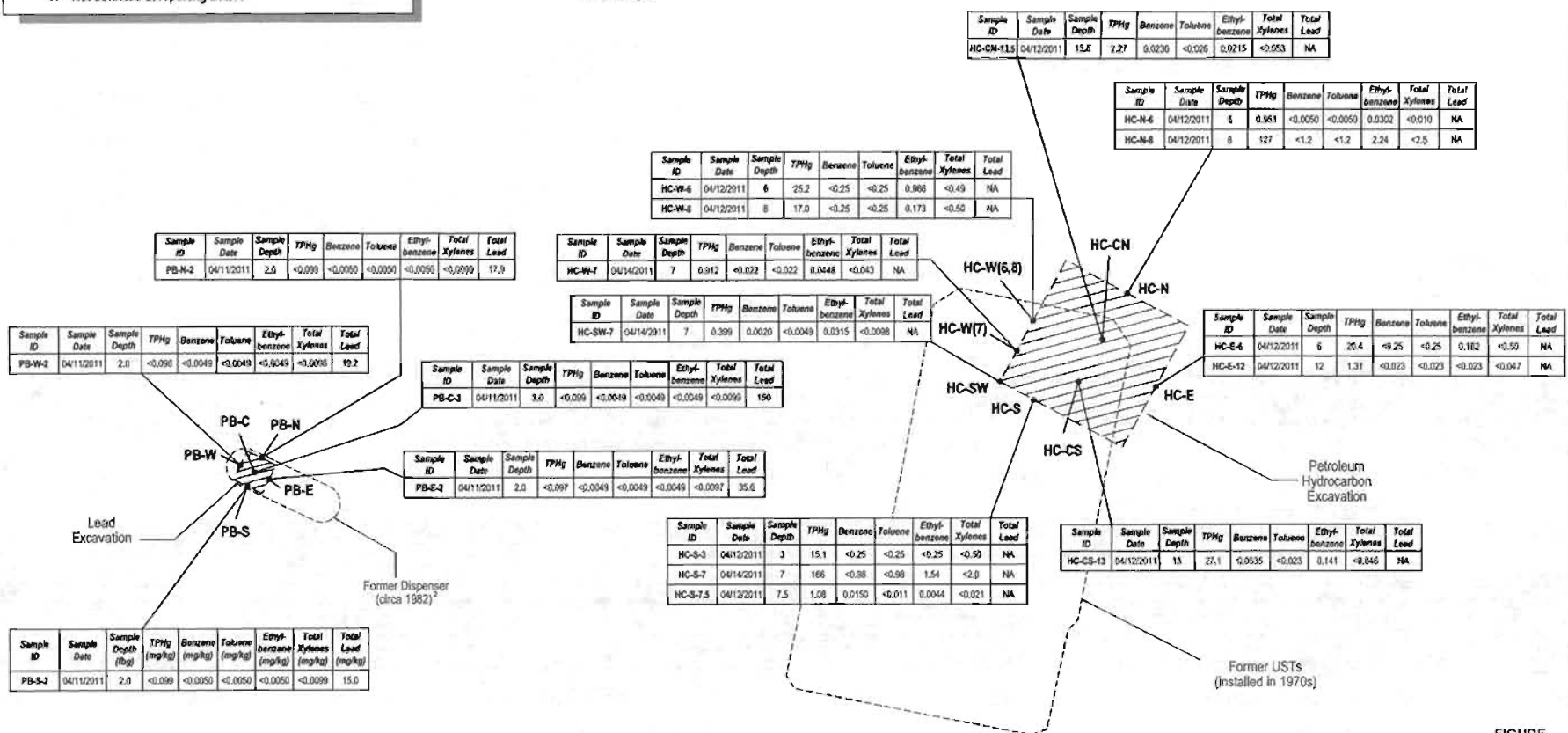
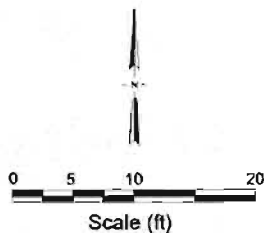


FIGURE 3

E:\Shell-Chem\0602-060204-Alameda 2301-2307 Lincoln Ave\060204 FIGURES\060204 SITE PLAN (F3).SCL DATA.DWG



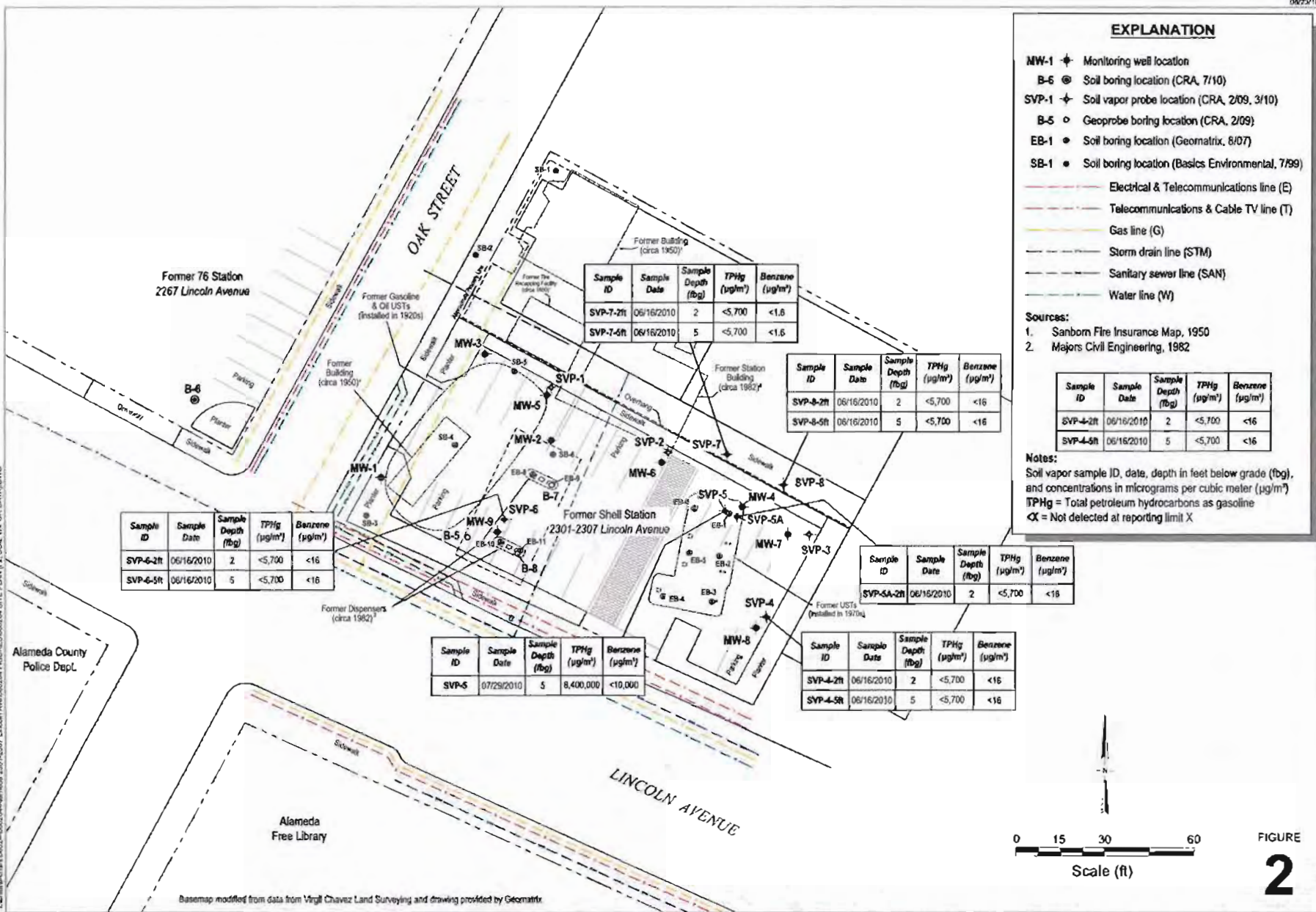
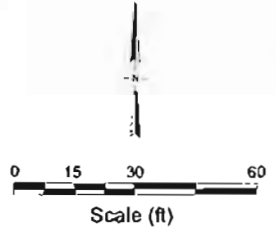
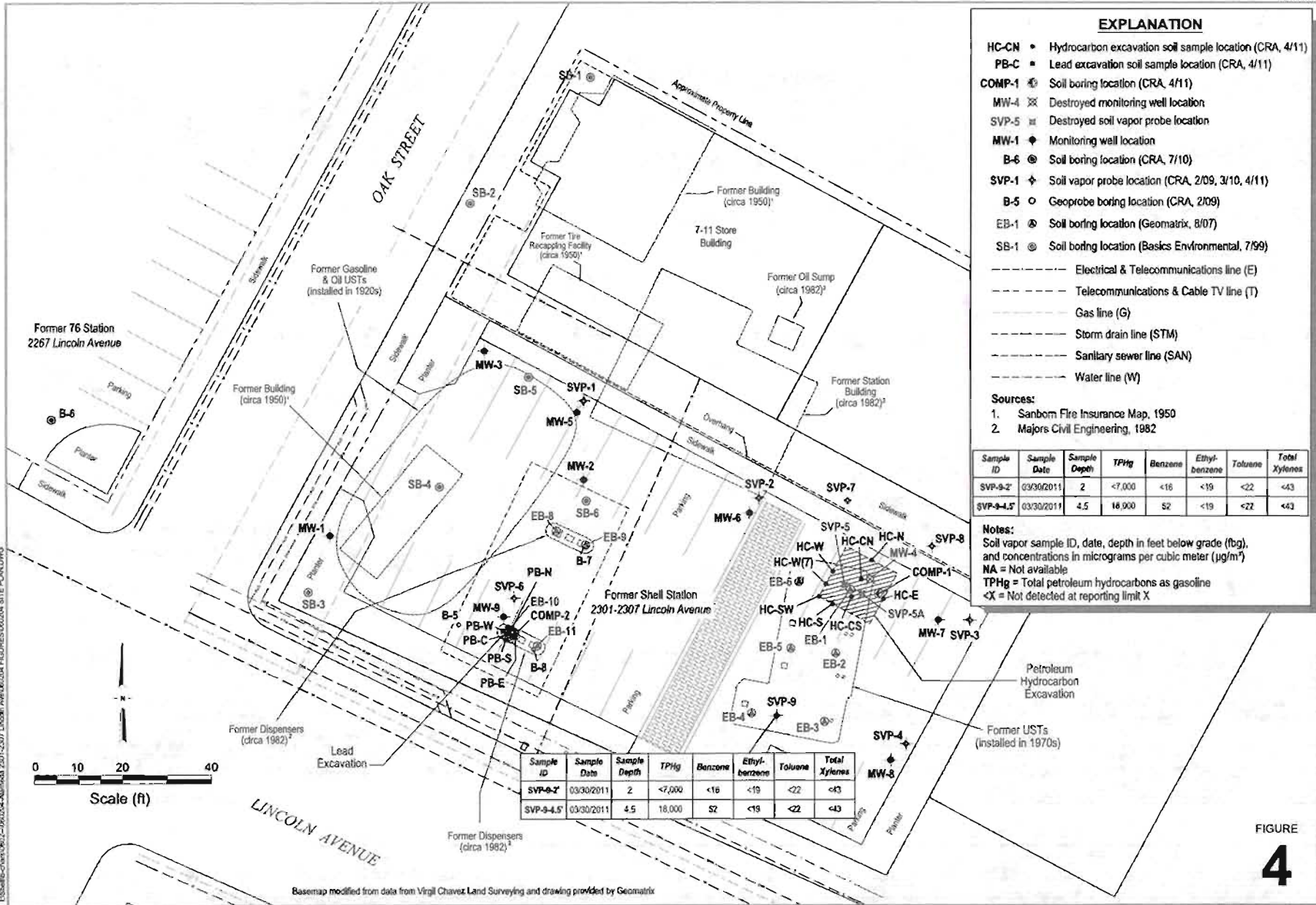


FIGURE 2



I:\staff\chris\0602-00204\Alameda 2301-2307 Lincoln Ave\0204 FIGURES\00204 SITE PLAN P2_Soil Vapor Data.DWG

Basemap modified from data from Virgil Chavez Land Surveying and drawing provided by Geomatrix



I:\Shell&Chem\0602-060204-Alameda 2301-2307 Lincoln Ave\060204-FIGURES\060204 SITE PLAN.DWG

Basemap modified from data from Virgil Chavez Land Surveying and drawing provided by Geomatrix

TABLE 2

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE, ALAMEDA, CALIFORNIA

Sample ID	Date	Depth (ft)	TPHmo	TPHd	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	Total Lead
SB-1	7/24/1999	7.5	—	—	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	—	—	—	—	—	—	—
SB-2	7/24/1999	7.5	—	—	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	—	—	—	—	—	—	—
SB-3	7/24/1999	7.5	—	—	40 ^a	<0.005	<0.005	0.012	<0.005	<0.05	—	—	—	—	—	—	—
SB-4	7/24/1999	7.5	—	—	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	—	—	—	—	—	—	—
SB-5	7/24/1999	7.5	—	—	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	—	—	—	—	—	—	—
SB-6	7/24/1999	5	—	—	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	—	—	—	—	—	—	—
MW-1-3.0	8/15/2007	3.0	—	—	<0.18	<0.0042	<0.0042	<0.0042	<0.0084	<0.0042	<0.0042	<0.0042	<0.0042	<0.085	<0.0042	<0.0042	—
MW-1-8.5	8/15/2007	8.5	—	—	1,600	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0	<40	<2.0	<2.0	—
MW-1-12.0	8/15/2007	12.0	—	—	2.4	<0.0037	<0.0037	<0.0037	<0.0074	<0.0037	<0.0037	<0.0037	<0.0037	<0.075	<0.0037	<0.0037	—
MW-1-14.5	8/15/2007	14.5	—	—	<0.16	<0.0052	<0.0052	<0.0052	<0.0104	<0.0052	<0.0052	<0.0052	<0.0052	<0.10	<0.0052	<0.0052	—
MW-2-10.5	8/15/2007	10.5	—	—	5.0	<0.004	<0.004	<0.004	<0.008	<0.004	<0.004	<0.004	<0.004	<0.079	<0.004	<0.004	—
EB-1-10.5	8/16/2007	10.5	—	—	470	<6.6	<6.6	100	<13.2	<6.6	<6.6	<6.6	<6.6	<130	<6.6	<6.6	4.5
EB-1-14.0	8/16/2007	14.0	—	—	<0.82	<0.004	<0.004	<0.004	<0.008	<0.004	<0.004	<0.004	<0.004	<0.081	<0.004	<0.004	1.4
EB-2-9.0	8/16/2007	9.0	—	—	24	0.44	<0.27	3.7	<0.54	<0.27	<0.27	<0.27	<0.27	<5.3	<0.27	<0.27	21
EB-2-13	8/16/2007	13.0	—	—	<0.150	<0.0045	<0.0045	<0.0045	<0.009	<0.0045	<0.0045	<0.0045	<0.0045	<0.091	<0.0045	<0.0045	1.2
EB-3-9.0	8/16/2007	9.0	—	—	68	0.99	<0.73	12	1.0	<0.73	<0.73	<0.73	<0.73	<15	<0.73	<0.73	2.0
EB-3-11.8	8/16/2007	11.8	—	—	<0.18	<0.0042	<0.0042	<0.0042	<0.0084	<0.0042	<0.0042	<0.0042	<0.0042	<0.085	<0.0042	<0.0042	1.8
EB-4-6.5	8/16/2007	6.5	—	—	<0.19	<0.0043	<0.0043	<0.0043	<0.0086	<0.0043	<0.0043	<0.0043	<0.0043	<0.086	<0.0043	<0.0043	2.3
EB-4-10.2	8/16/2007	10.2	—	—	<0.18	<0.0045	<0.0045	<0.0045	<0.009	<0.0045	<0.0045	<0.0045	<0.0045	<0.091	<0.0045	<0.0045	1.8
EB-4-13.0	8/16/2007	13.0	—	—	<0.16	<0.0041	<0.0041	<0.0041	<0.0082	<0.0041	<0.0041	<0.0041	<0.0041	<0.082	<0.0041	<0.0041	1.7

TABLE 2

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE, ALAMEDA, CALIFORNIA

Sample ID	Date	Depth (fbg)	TPHmo	TPHd	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	Total Lead
EB-5-2.5	8/16/2007	2.5	—	—	<0.18	<0.0071	<0.0071	<0.0071	<0.0142	<0.0071	<0.0071	<0.0071	<0.0071	<0.14	<0.0071	<0.0071	48
EB-5-9.0	8/16/2007	9.0	—	—	2.4	<0.21	<0.21	3.7	1.1	<0.21	<0.21	<0.21	<0.21	<4.2	<0.21	<0.21	2.6
EB-5-12.5	8/16/2007	12.5	—	—	<1.1	<0.0045	<0.0045	<0.0045	<0.0090	<0.0045	<0.0045	<0.0045	<0.0045	<0.089	<0.0045	<0.0045	1.5
EB-6-9.5	8/16/2007	9.5	—	—	4.3	<0.12	<0.12	1.8	<2.4	<0.12	<0.12	<0.12	<0.12	<2.4	<0.12	<0.12	2.5
EB-6-14.0	8/16/2007	14.0	—	—	<0.18	<0.0036	<0.0036	<0.0036	<0.0072	<0.0036	<0.0036	<0.0036	<0.0036	<0.072	<0.0036	<0.0036	2.0
EB-8-1.5	8/15/2007	1.5	—	—	<0.98	<0.0049	<0.0049	<0.0049	<0.0098	<0.020	—	—	—	—	—	—	40
EB-9-2.0	8/15/2007	2.0	—	—	<0.96	<0.0048	<0.0048	<0.0048	<0.0096	<0.019	—	—	—	—	—	—	2.0
EB-10-2.0	8/16/2007	2.0	—	—	<1.5	<0.0051	<0.0051	<0.0051	<0.012	<0.0051	<0.0051	<0.0051	<0.0051	<0.10	<0.0051	<0.0051	550
EB-11-2.0	8/16/2007	2.0	—	—	<1.2	<0.0048	<0.0048	<0.0048	<0.0096	<0.0048	<0.0048	<0.0048	<0.0048	<0.096	<0.0048	<0.0048	3.3
B-5-5.5'	2/27/2009	5.5	—	—	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—
B-5-8.5'	2/27/2009	8.5	—	—	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—
B-7-5.5'	2/27/2009	5.5	—	—	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—
B-7-8.5'	2/27/2009	8.5	—	—	87	<0.50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—	—	—
B-8-5.5'	2/27/2009	5.5	—	—	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—
B-8-8.5'	2/27/2009	8.5	—	—	7,900	<20	<20	120	150	<20	—	—	—	—	—	—	—
MW-4-5'	2/25/2009	5	—	—	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—
MW-4-8'	2/25/2009	8	—	—	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—
MW-5-5'	2/24/2009	5	—	—	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—
MW-5-8'	2/24/2009	8	—	—	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—

TABLE 2

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE, ALAMEDA, CALIFORNIA

Sample ID	Date	Depth (fbg)	TPH _{mo}	TPH _d	TPH _g	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	Total Lead
MW-6-5'	2/26/2009	5	—	—	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—
MW-6-8'	2/26/2009	8	—	—	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—
MW-7-5'	2/25/2009	5	—	—	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—
MW-7-8'	2/25/2009	8	—	—	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—
MW-8-5'	2/23/2009	5	—	—	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—
MW-8-8'	2/23/2009	8	—	—	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—
MW-9-5.5'	3/25/2010	5.5	81	9.7 ^b	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—	3.36
MW-9-8.5'	3/25/2010	8.5	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—	2.45
MW-9-12'	3/25/2010	12	450	54 ^b	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—	17.1
MW-9-17.5'	3/25/2010	17.5	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	—	—	—	—	1.85
B-6-5.25	7/13/2010	5.25	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050	2.18
B-6-8.0	7/13/2010	8	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050	2.72
B-6-9.5	7/13/2010	9.5	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050	<0.0050	2.68
PB-E-2	4/11/2011	2	—	—	<0.097	<0.0049	<0.0049	<0.0049	<0.0097	—	—	—	—	—	—	—	35.6
PB-W-2	4/11/2011	2	—	—	<0.098	<0.0049	<0.0049	<0.0049	<0.0098	—	—	—	—	—	—	—	19.2
PB-S-2	4/11/2011	2	—	—	<0.099	<0.0050	<0.0050	<0.0050	<0.0099	—	—	—	—	—	—	—	15.0
PB-N-2	4/11/2011	2	—	—	<0.099	<0.0050	<0.0050	<0.0050	<0.0099	—	—	—	—	—	—	—	17.9

TABLE 2

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE, ALAMEDA, CALIFORNIA

Sample ID	Date	Depth (fbg)	TPH _{mo}	TPH _d	TPH _g	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	Total Lead
PB-C-3	4/11/2011	3	--	--	<0.099	<0.0049	<0.0049	<0.0049	<0.0099	--	--	--	--	--	--	--	150
HC-CN-13.5	4/12/2011	13.5	--	--	2.27	0.0230 ^e	<0.026	0.0215 ^e	<0.053	--	--	--	--	--	--	--	--
HC-CS-13	4/12/2011	13	--	--	27.1 ^f	0.0535	<0.023	0.141	<0.046	--	--	--	--	--	--	--	--
HC-E-6	4/12/2011	6	--	--	20.4	<0.25	<0.25	0.182 ^e	<0.50	--	--	--	--	--	--	--	--
HC-E-12	4/12/2011	12	--	--	1.31	<0.023	<0.023	<0.023	<0.047	--	--	--	--	--	--	--	--
HC-W-6	4/12/2011	6	--	--	25.2	<0.25	<0.25	0.966	<0.49	--	--	--	--	--	--	--	--
HC-W-8	4/12/2011	8	--	--	17.0	<0.25	<0.25	0.173 ^e	<0.50	--	--	--	--	--	--	--	--
HC-W-7	4/14/2011	7	--	--	0.912	<0.022	<0.022	0.0448	<0.043	<0.022	--	--	--	--	--	--	--
HC-N-6	4/12/2011	6	--	--	0.951	<0.0050	<0.0050	0.0302	<0.010	--	--	--	--	--	--	--	--
HC-N-8	4/12/2011	8	--	--	127	<1.2	<1.2	2.24	<2.5	--	--	--	--	--	--	--	--
HC-S-3	4/12/2011	3	--	--	15.1	<0.25	<0.25	<0.25	<0.50	--	--	--	--	--	--	--	--
HC-S-7.5	4/12/2011	7.5	--	--	1.08	0.0150	<0.011	0.0044 ^e	<0.021	--	--	--	--	--	--	--	--
HC-S-7	4/14/2011	7	--	--	166	<0.98	<0.98	1.54	<2.0	<0.98	--	--	--	--	--	--	--
HC-SW-7	4/14/2011	7	--	--	0.399	0.0020 ^e	<0.0049	0.0315	<0.0098	<0.0049	--	--	--	--	--	--	--
Shallow Soil (≤10 fbg) ESL ^c :			2,500	180	180	0.27	9.3	4.7	11	8.4	NA	NA	NA	110	0.48	0.044	750
Deep Soil (>10 fbg) ESL ^d :			5,000	180	180	2.0	9.3	4.7	11	8.4	NA	NA	NA	110	1.8	1.0	750

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE, ALAMEDA, CALIFORNIA

Sample ID	Date	Depth (fbg)	TPHmo	TPHd	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	Total Lead
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Notes:

All results in milligrams per kilogram (mg/kg) unless otherwise indicated.

fbg = feet below grade

TPHmo = Total petroleum hydrocarbons as motor oil analyzed by EPA Method 8015B (M)

TPHd = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015B

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; before February 27, 2009, analyzed by EPA 8015M.

Benzene, toluene, ethylbenzene and total xylenes analyzed by EPA Method 8260B; before August 15, 2007, analyzed by EPA Method 8020.

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B, before August 15, 2007, analyzed by EPA Method 8020.

TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B

DIPE = Di-isopropyl ether analyzed by EPA Method 8260B

ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B

TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B

1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method

EDB = 1,2-Dibromoethane analyzed by EPA

Lead analyzed by EPA Method 6010B

<x = Not detected at reporting limit x

— = Not analyzed

ESL = Environmental screening level

NA = No applicable ESL

a = Strongly aged gasoline or diesel range compounds are significant.

b = The sample chromatographic pattern for TPHd does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

c = San Francisco Bay Regional Water Quality Control Board commercial/industrial Environmental Screening Level for soil where groundwater is not a source of drinking water (Table B of *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]).

d = San Francisco Bay Regional Water Quality Control Board commercial/industrial Environmental Screening Level for soil where groundwater is not a source of drinking water (Table D of *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]).

e = Estimated value

f = Analyte found in associated method blank

TABLE 1

HISTORICAL SOIL VAPOR ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE, ALAMEDA, CALIFORNIA

Sample ID	Date	Depth (ft)	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	Chloroform	Dichloro-difluoro-methane	Tetra-chloro-ethene	Butane	Iso-butane	Propane	Methane (%)	Carbon Dioxide (%)	Oxygen + Argon (%)	Helium (%)
SVP-1	3/11/2009	5	<8,900	5.4 ^b	<2.9 ^b	<3.4 ^b	<13 ^b	<11	—	—	—	—	<18	110	<42	—	—	—	—
SVP-2	3/11/2009	5	<9,200	7.3 ^b	<3.0 ^b	<3.5 ^b	<14 ^b	<12	—	—	—	—	<19	<19	<43	—	—	—	—
SVP-3	3/11/2009	5	<11,000	5.5 ^b	<3.6 ^b	<4.2 ^b	<17 ^b	<14	—	—	—	—	<23	<23	<52	—	—	—	—
SVP-4-2ft	6/16/2010	2	<5,700	<16	<19	<22	<43	—	<52	—	—	—	—	—	—	<0.500	1.62	20.0	<0.0100
SVP-4-5ft	6/16/2010	5	<5,700	<16	<19	<22	<43	—	<52	—	—	—	—	—	—	<0.500	1.74	20.0	<0.0100
SVP-5	3/11/2009	5	10,000,000	11,000 ^b	1,800 ^b	21,000 ^b	<5,900 ^b	<4,900	—	—	—	—	<8,100	<8,100	<18,000	—	—	—	—
SVP-5 DUP ^a	3/11/2009	5	11,000,000	12,000 ^b	1,600 ^b	23,000 ^b	<5,500 ^b	<4,500	—	—	—	—	<7,500	<7,500	<17,000	—	—	—	—
SVP-5	7/29/2010	5	8,400,000	<10,000	<12,000	14,000	<27,000	—	<33,000	—	—	—	—	—	—	1.73	0.147	0.741	<0.0100
SVP-5A-2ft	6/16/2010	2	<5,700	<16	<19	<22	<43	—	<52	—	—	—	—	—	—	<0.500	6.20	14.6	<0.0100
SVP-6-2ft	6/16/2010	2	<5,700	<16	<19	<22	<43	—	<52	—	—	—	—	—	—	<0.500	4.12	17.7	<0.0100
SVP-6-5ft	6/16/2010	5	<5,700	<16	<19	<22	<43	—	<52	—	—	—	—	—	—	<0.500	4.70	17.3	<0.0100
SVP-7-2ft ^d	6/16/2010	2	<5,700	<1.6 ^b	<19 ^b	<2.2 ^b	<8.7 ^b	<7.2	<52 ^b	4.9	2.5	15	—	—	—	<0.500	1.91	19.8	<0.0100
SVP-7-5ft ^d	6/16/2010	5	<5,700	<1.6 ^b	<19 ^b	<2.2 ^b	<8.7 ^b	<7.2	<52 ^b	<2.4	<2.5	26	—	—	—	<0.500	4.27	17.5	<0.0100
SVP-8-2ft	6/16/2010	2	<5,700	<16	<19	<22	<43	—	<52	—	—	—	—	—	—	<0.500	2.38	19.6	<0.0100
SVP-8-5ft	6/16/2010	5	<5,700	<16	<19	<22	<43	—	<52	—	—	—	—	—	—	<0.500	3.38	18.0	<0.0100
SVP-9-2'	3/30/2011	2	<7,000	<16	<19	<22	<43	—	<52	—	—	—	—	—	—	<0.500	5.90	8.83	<0.0100
SVP-9-4.5'	3/30/2011	4.5	18,000	52	<19	<22	<43	—	<52	—	—	—	—	—	—	<0.500	8.34	8.68	<0.0100
<i>Residential Land Use</i>																			
ESL :			10,000	84	63,000	980	21,000	9,400	72	460	NA	410	NA	NA	NA	NA	NA	NA	NA
<i>Commercial/Industrial Land Use</i>																			
ESL :			29,000	280	180,000	3,300	58,000	31,000	240	1,500	NA	1,400	NA	NA	NA	NA	NA	NA	NA

TABLE 1

HISTORICAL SOIL VAPOR ANALYTICAL DATA
 FORMER SHELL SERVICE STATION
 2301-2307 LINCOLN AVENUE, ALAMEDA, CALIFORNIA

Notes

All results in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) unless otherwise indicated.

%v = Percent by volume

fbg = Feet below grade

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method TO-3M

Benzene, toluene, ethylbenzene and total xylenes analyzed by EPA Method 8260B (M) unless otherwise noted.

MTBE = Methyl tertiary-butyl ether by modified EPA Method TO-15

Naphthalene analyzed by EPA Method EPA Method 8260B (M) unless otherwise noted

Chloroform, dichlorodifluoromethane, and tetrachloroethene analyzed by EPA TO-15M.

Butane, isobutane, and propane by modified EPA Method TO-15

Methane, carbon dioxide, oxygen + argon, and helium analyzed by ASTM D-1946

<x = Not detected at reporting limit x

— = Not analyzed

ESL = Environmental screening level

NA = No applicable ESL

Results in bold equal or exceed ESL

a = Field duplicate

b = Analyzed by modified EPA Method TO-15M

c = San Francisco Bay Regional Water Quality Control Board ESLs for shallow soil gas (Table E of Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008])

d = Sample analyzed for full volatile organic compound scan by EPA Method 8260B (M). All detected compounds tabulated.

WELL CONCENTRATIONS
Former Shell Service Station
2301-2307 Lincoln Avenue
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	TPH-M (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	03/16/2009	NA	NA	NA	NA	NA	NA	NA	25.77	8.24	17.53
MW-1	03/27/2009	13,000	NA	NA	9.7	<10	<10	<10	25.77	7.09	18.68
MW-1	05/22/2009	3,900	NA	NA	2.6	<2.0	<2.0	<2.0	25.77	7.70	18.07
MW-1	09/23/2009	17,000	NA	NA	8.1	<10	<10	<10	25.77	9.27	16.50
MW-1	12/23/2009	9,700	NA	NA	8.7	<10	<10	<10	25.77	8.07	17.70
MW-1	05/05/2010	13,000	1,700 a	<250	<5.0	<10	<10	<10	25.77	6.83	18.94
MW-1	09/02/2010	NA	NA	NA	NA	NA	NA	NA	25.77	8.37	17.40
MW-2	03/16/2009	NA	NA	NA	NA	NA	NA	NA	26.09	8.54	17.55
MW-2	03/27/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.09	8.16	17.93
MW-2	05/22/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.09	7.88	18.21
MW-2	09/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.09	9.21	16.88
MW-2	12/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.09	8.04	18.05
MW-2	05/05/2010	<50	160 a	<250	<0.50	<1.0	<1.0	<1.0	26.09	8.24	17.85
MW-2	09/02/2010	NA	NA	NA	NA	NA	NA	NA	26.09	8.75	17.34
MW-3	03/16/2009	NA	NA	NA	NA	NA	NA	NA	25.56	6.06	19.50
MW-3	03/27/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	25.56	6.37	19.19
MW-3	05/22/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	25.56	7.35	18.21
MW-3	09/23/2009	64	NA	NA	<0.50	<1.0	<1.0	<1.0	25.56	8.79	16.77
MW-3	12/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	25.56	7.62	17.94
MW-3	05/05/2010	<50	<50	<250	<0.50	<1.0	<1.0	<1.0	25.56	6.15	19.41
MW-3	09/02/2010	NA	NA	NA	NA	NA	NA	NA	25.56	8.22	17.34
MW-4	03/16/2009	NA	NA	NA	NA	NA	NA	NA	26.60	7.43	19.17
MW-4	03/27/2009	3,900	NA	NA	170	25	190	360	26.60	7.50	19.10
MW-4	05/22/2009	3,500	NA	NA	280	19	270	220	26.60	8.43	18.17
MW-4	09/23/2009	920	NA	NA	170	3.4	14	16	26.60	9.90	16.70

WELL CONCENTRATIONS
Former Shell Service Station
2301-2307 Lincoln Avenue
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	TPH-M (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-4	12/23/2009	2,700	NA	NA	200	5.5	190	56	26.60	8.85	17.75
MW-4	05/05/2010	2,600	710 a	<250	200	19	200	130	26.60	7.34	19.26
MW-4	09/02/2010	NA	NA	NA	NA	NA	NA	NA	26.60	9.28	17.32
MW-5	03/16/2009	NA	NA	NA	NA	NA	NA	NA	26.63	7.21	19.42
MW-5	03/27/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.63	7.74	18.89
MW-5	05/22/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.63	8.42	18.21
MW-5	09/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.63	9.89	16.74
MW-5	12/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.63	8.81	17.82
MW-5	05/05/2010	<50	<50	<250	<0.50	<1.0	<1.0	<1.0	26.63	7.63	19.00
MW-5	09/02/2010	NA	NA	NA	NA	NA	NA	NA	26.63	9.34	17.29
MW-6	03/16/2009	NA	NA	NA	NA	NA	NA	NA	26.61	7.31	19.30
MW-6	03/27/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.61	7.82	18.79
MW-6	05/22/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.61	8.43	18.18
MW-6	09/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.61	9.87	16.74
MW-6	12/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.61	8.77	17.84
MW-6	05/05/2010	<50	<50	<250	<0.50	<1.0	<1.0	<1.0	26.61	7.91	18.70
MW-6	09/02/2010	NA	NA	NA	NA	NA	NA	NA	26.61	9.36	17.25
MW-7	03/16/2009	NA	NA	NA	NA	NA	NA	NA	26.69	7.35	19.34
MW-7	03/27/2009	54	NA	NA	<0.50	<1.0	<1.0	<1.0	26.69	7.62	19.07
MW-7	05/22/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.69	8.50	18.19
MW-7	09/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.69	10.00	16.69
MW-7	12/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.69	8.86	17.83
MW-7	05/05/2010	<50	<50	<250	<0.50	<1.0	<1.0	<1.0	26.69	7.44	19.25
MW-7	09/02/2010	NA	NA	NA	NA	NA	NA	NA	26.69	9.31	17.38

WELL CONCENTRATIONS
Former Shell Service Station
2301-2307 Lincoln Avenue
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	TPH-M (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-8	03/16/2009	NA	NA	NA	NA	NA	NA	NA	26.05	6.81	19.24
MW-8	03/27/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.05	7.04	19.01
MW-8	05/22/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.05	7.76	18.29
MW-8	09/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.05	9.27	16.78
MW-8	12/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.05	7.98	18.07
MW-8	05/05/2010	<50	<50	<250	<0.50	<1.0	<1.0	<1.0	26.05	6.88	19.17
MW-8	09/02/2010	NA	NA	NA	NA	NA	NA	NA	26.05	8.40	17.65
MW-9	04/21/2010	NA	NA	NA	NA	NA	NA	NA	25.70	6.74	18.96
MW-9	05/05/2010	<50	<50	<250	<0.50	<1.0	<1.0	<1.0	25.70	7.05	18.65
MW-9	09/02/2010	<50	<50	<250	<0.50	<1.0	<1.0	<1.0	25.70	8.25	17.45

Abbreviations:

- TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B
- TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015B.
- TPH-M = TPH as Motor Oil analyzed by EPA Method 8015B
- BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B
- TOC = Top of Casing Elevation
- GW = Groundwater
- DO = Dissolved Oxygen
- ug/L = Parts per billion
- ppm = Parts per million
- MSL = Mean sea level
- ft. = Feet
- <n = Below detection limit
- NA = Not applicable
- ND = Not detected

TABLE 2

HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

Sample ID	Date	Depth (ftg)	Concentration (µg)												
			TPHd	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
SB-1W	7/24/1999	8 to 10	—	<50	<1	<1	<1	<1	<5	—	—	—	—	—	—
SB-2W	7/24/1999	8 to 10	—	<50	<1	<1	<1	<1	<5	—	—	—	—	—	—
SB-3W	7/24/1999	8 to 10	—	4,500*	<2.5	<2.5	<2.5	<2.5	<20	—	—	—	—	—	—
SB-4W	7/24/1999	8 to 10	—	<50	<1	<1	<1	<1	<5	—	—	—	—	—	—
SB-6W	7/24/1999	8 to 10	—	160*	<1	<1	<1	<1	<5	—	—	—	—	—	—
EB-1-081607	8/16/2007	10 to 15	—	7,000	980	11	490	19	<5.0	—	—	—	—	—	—
EB-4-081607	8/16/2007	10 to 15	—	<50	<0.5	<0.5	<0.5	<1.0	<0.5	—	—	—	—	—	—
B-5 (GW@9-13')	2/27/2009	9 to 13	—	<50	<0.50	<1.0	<1.0	<1.0	<1.0	—	—	—	—	—	—
B-7 (GW@9-13')	2/27/2009	9 to 13	—	240	<0.50	<1.0	5.6	17	<1.0	—	—	—	—	—	—
B-8 (GW@9-13')	2/27/2009	9 to 13	—	60	<0.50	<1.0	2.5	2.6	<1.0	—	—	—	—	—	—
MW-4 (GW@31-34')	2/25/2009	31 to 34	—	470	2.0	<1.0	14	16	<1.0	—	—	—	—	—	—
MW-5 (GW@31-34')	2/24/2009	31 to 34	—	<50	<0.50	<1.0	<1.0	<1.0	<1.0	—	—	—	—	—	—
MW-6 (GW@31-34')	2/26/2009	31 to 34	—	<50	<0.50	<1.0	<1.0	<1.0	<1.0	—	—	—	—	—	—
MW-7 (GW@31-34')	2/25/2009	31 to 34	—	<50	<0.50	<1.0	<1.0	<1.0	<1.0	—	—	—	—	—	—
MW-8 (GW@31-34')	2/23/2009	31 to 34	—	94	<0.50	<1.0	<1.0	<1.0	<1.0	—	—	—	—	—	—

HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

Sample ID	Date	Depth (fbg)	Analytical Data												
			TPH ^d	TPH ^g	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
B-6	7/13/2010	10 to 15	56 ^b	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0
Groundwater ESL			200	210	30	45	100	1,800					18,000	200	150

Notes:

All results in micrograms per liter (µg/l) unless otherwise indicated.

fbg = Feet below grade

TPH^d = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015B

TPH^g = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; before February 27, 2009, analyzed by

Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B; before August 16, 2007, analyzed by EPA

TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B

DIPE = Di-isopropyl ether analyzed by EPA Method 8260B

ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B

TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B

1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B

EDB = 1,2-Dibromoethane analyzed by EPA Method

<x = Not detected at reporting limit x

— = Not analyzed or no applicable ESL

ESL = Environmental screening level

a = Heavier gasoline range compounds are significant (aged gasoline?).

b = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

c = San Francisco Bay Regional Water Quality Control Board Environmental Screening Level for groundwater where groundwater is not a source of drinking water (Table B of *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]).

TABLE 4
GROUNDWATER SAMPLE RESULTS - VOCs AND TPHg¹
 2301-2307 Lincoln Ave.
 Alameda, California

Concentrations in micrograms per liter (µg/L.)

Sample ID	Sample Date	TPHg (C7-C12)	Benzene	Ethyl-benzene	Toluene	Total Xylenes	Methyl tert-Butyl Ether (MTBE)	tert-Butyl Alcohol (TBA)	Isopropyl Ether (DIPE)	Ethyl tert-Butyl Ether (ETBE)	Methyl tert-Amyl Ether (TAME)	1,2-Dibromoethane	1,2-Dichloroethane
Groundwater Samples from Wells in Western Tank Area													
MW-1-082407	8/24/2007	4,100 J ²	3.0	1.5	<0.5	<1.0	<0.5	<10	<0.5	<0.5	<0.5	<0.5	<0.5
MW-10-082407 ³	8/24/2007	3,500 J	3.1	1.3	<0.5	<1.0	<0.5	<10	<0.5	<0.5	<0.5	<0.5	<0.5
MW-2-082407	8/24/2007	<50	<0.5	<0.5	0.5	<1.0	<0.5	<10	<0.5	<0.5	<0.5	<0.5	<0.5
MW-3-082407	8/24/2007	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<0.5	<0.5	<0.5	<0.5	<0.5
Grab Groundwater Samples from Temporary Borings in Eastern Tank Area													
EB-1-081607	8/16/2007	7,000	980	490	11	19	<5	<100	<5	<5	<5	<5	<5
EB-4-081607	8/16/2007	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<10	<0.5	<0.5	<0.5	<0.5	<0.5
Vapor Intrusion Commerical ESLs ⁴		-- ⁵	1,800	170,000	530,000	160,000	24,000	--	--	--	--	510	690
Commerical ESLs (Gross) ⁵		5,000	20,000	300	400	5,300	1,800	50,000	--	--	--	50,000	50,000

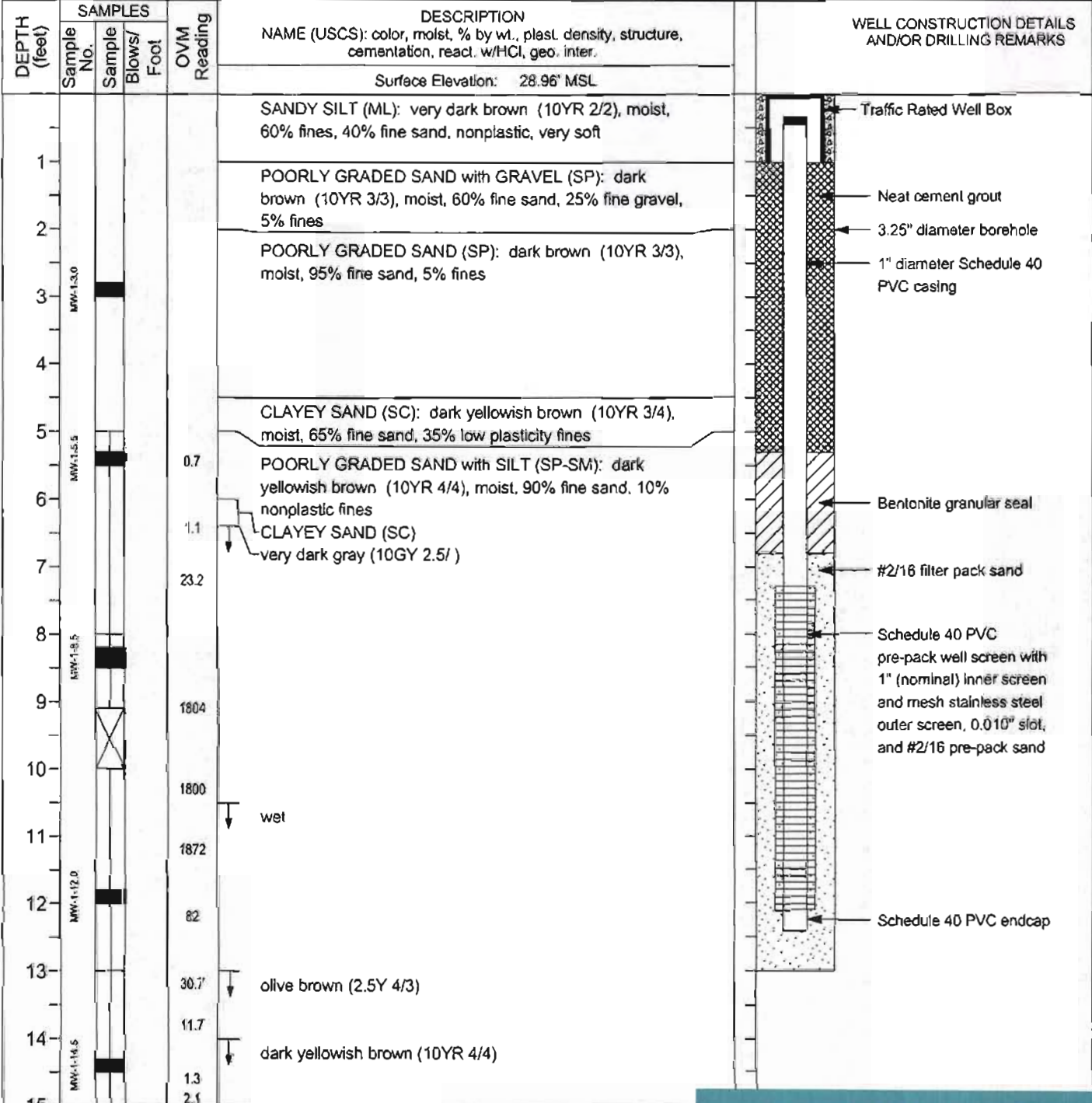
Notes:

1. Samples analyzed by Curtis & Tompkins, Ltd. for TPHg using U.S. EPA Method 8015M and for select VOCs (BTEX, fuel oxygenates, and fuel additives) using U.S. EPA Method 8260B.
2. "J" indicates the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
3. Blind duplicate sample collected from MW-1.
4. Water Board, 2003, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, Table E-1a, Groundwater screening levels for evaluation of potential vapor intrusion concerns, July (updated November 2007).
5. Water Board, 2003, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, Table F-1b, Gross contamination groundwater screening levels where groundwater is not a current or potential drinking water resource, July (updated November 2007).
6. "--" indicates an ESL has not been established for this constituent.

Abbreviations:

- ESL = environmental screening level
- TPHg = total petroleum hydrocarbons quantified as gasoline
- VOCs = volatile organic compounds

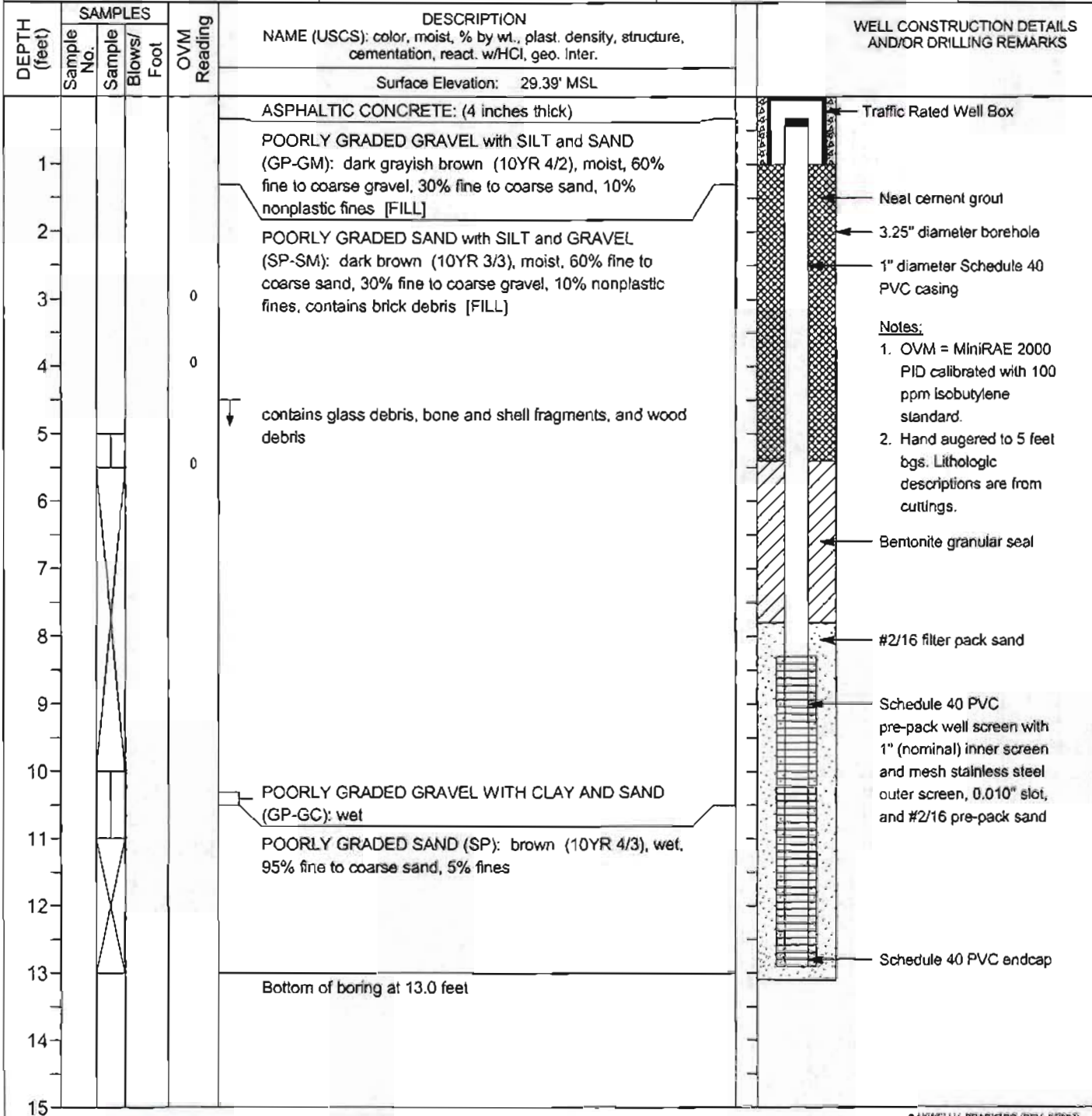
PROJECT: 2310-2307 LINCOLN AVENUE Alameda, California		Log of Well No. MW-1	
BORING LOCATION: N: 2106525.98; E: 6058071.59		TOP OF CASING ELEVATION AND DATUM: 28.61' MSL (NAVD 88)	
DRILLING CONTRACTOR: Vironex, Inc.		DATE STARTED: 8/15/07	DATE FINISHED: 8/15/07
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 18.0	SCREEN INTERVAL (ft.): 7.3-12.1
DRILLING EQUIPMENT: Geoprobe 66DT		DEPTH TO WATER (ft.): NA	FIRST COMPL. CASING: 8.4 1" Sch. 40 PVC
SAMPLING METHOD: Geoprobe DT-22 dual-tube sampling system [5' x 2.25"]		LOGGED BY: C. Payne	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: R. Schultz	REG. NO. CHG 833



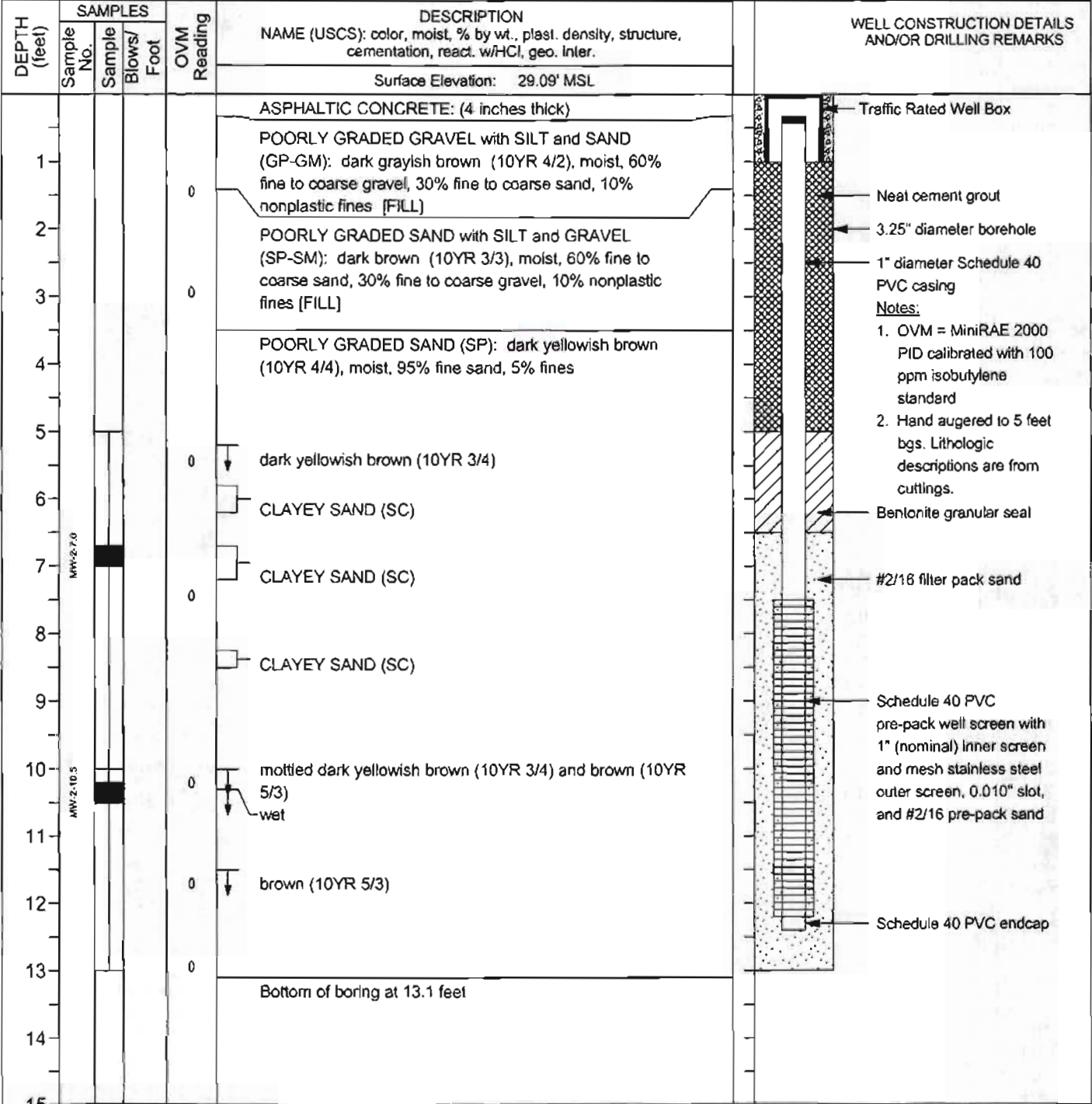
Log of Well No. MW-1 (cont'd)

DEPTH (feet)	SAMPLES			OVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. Inter.	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample Blows/ Foot				
16				1.4	POORLY GRADED SAND with SILT (SP-SM): cont'd	<p><u>Notes:</u></p> <ol style="list-style-type: none"> OVM = MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard. Hand augered to 5 feet bgs. Lithologic descriptions are from cuttings. Lithologic descriptions are from adjacent companion boring, located approximately 3' south of well MW-1. Boring location coordinates based on the California Coordinate System NAD 83, Zone III.
17				1.4		
18				1		
18.0					Bottom of boring at 18.0 feet	
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

PROJECT: 2310-2307 LINCOLN AVENUE Alameda, California		Log of Well No. MW-2	
BORING LOCATION: N: 2106538.71; E: 6058128.88		TOP OF CASING ELEVATION AND DATUM: 28.94' MSL (NAVD 88)	
DRILLING CONTRACTOR: Vironex, Inc.		DATE STARTED: 8/15/07	DATE FINISHED: 8/15/07
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 13.1	SCREEN INTERVAL (ft.): 8.3-12.9
DRILLING EQUIPMENT: Geoprobe 66DT		DEPTH TO FIRST WATER (ft.): NA	COMPL: 9.3 CASING: 1" Sch. 40 PVC
SAMPLING METHOD: Geoprobe DT-22 dual-tube sampling system (5' x 2.25")		LOGGED BY: C. Payne	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: R. Schultz	REG. NO. CHG 833



PROJECT: 2310-2307 LINCOLN AVENUE Alameda, California		Log of Well No. MW-3	
BORING LOCATION: N: 2106567.94; E: 6058106.52		TOP OF CASING ELEVATION AND DATUM: 28.39' MSL (NAVD 88)	
DRILLING CONTRACTOR: Vironex, Inc.		DATE STARTED: 8/15/07	DATE FINISHED: 8/15/07
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 13.0	SCREEN INTERVAL (ft.): 7.5-12.2
DRILLING EQUIPMENT: Geoprobe 66DT		DEPTH TO FIRST WATER (ft.): NA	COMPL: 8.4 CASING: 1" Sch. 40 PVC
SAMPLING METHOD: Geoprobe DT-22 dual-tube sampling system [5' x 2.25"]		LOGGED BY: C. Payne	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: R. Schultz	REG. NO. CHG 833



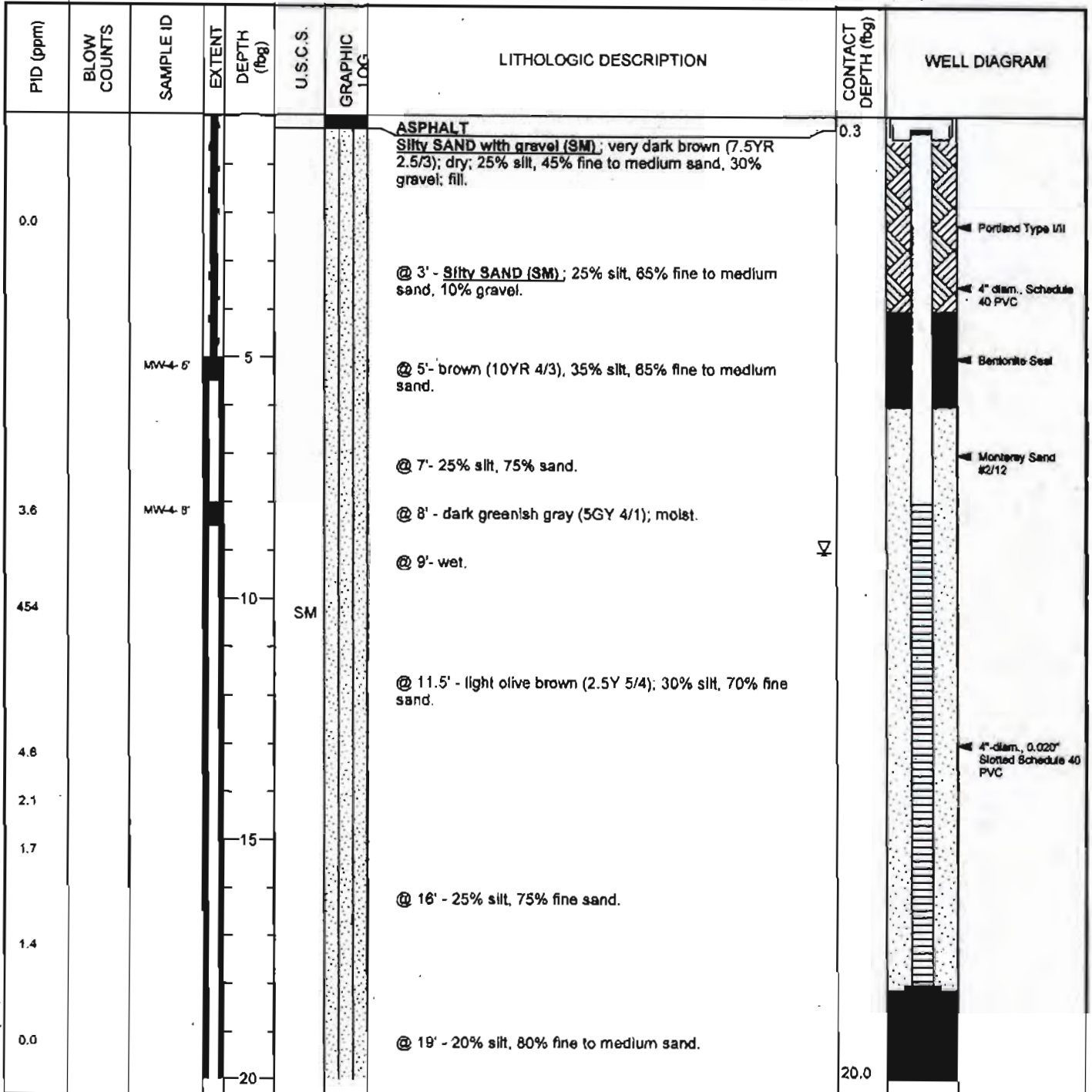
N:\PROJECT_111037.00\110000 BORING LOGS\DWG LOGSDRAWING FILE\SMW-3_WELL LOG.DWG G:\WELLY_PPACTOC (REV. 9/2007)



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-4
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	17-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	25-Feb-09
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct-push & hollow-stem auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10", 2" below 18 fbg.	SCREENED INTERVALS	8 to 18 fbg
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	9.00 fbg
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS	Air knifed to 5 fbg		



WELL LOG (PID) [I:\SHELL\US-CHARS\060204-060204-GINT.GPJ] DEFAULT.GDT 4/1/09

Continued Next Page



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-4
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	17-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	25-Feb-09

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0						@ 21' - 25% silt, 75% fine to medium sand.		
0.0						@ 24' - 20% silt, 80% fine to medium sand.		
0.0			25	SM		@ 25' - olive brown (2.5Y 4/3); 20% silt, 80% fine sand.		← Bentonite Seal
0.0						@ 28' - light olive brown (2.5Y 5/3).		
0.0						@ 29' - 30% silt, 70% fine sand.		
0.0			30			@ 30' - light olive brown (2.5Y 5/3).		
						@ 31-34' -Groundwater grab sample collected. No lithologic log.	31.0	
							34.0	Bottom of Boring @ 34 fbg

WELL LOG (PID) I:\SHELL\US-CHARS\0602-1080204-10848EP-1080204-GINT.GPJ DEFAULT.GDT 4/1/09

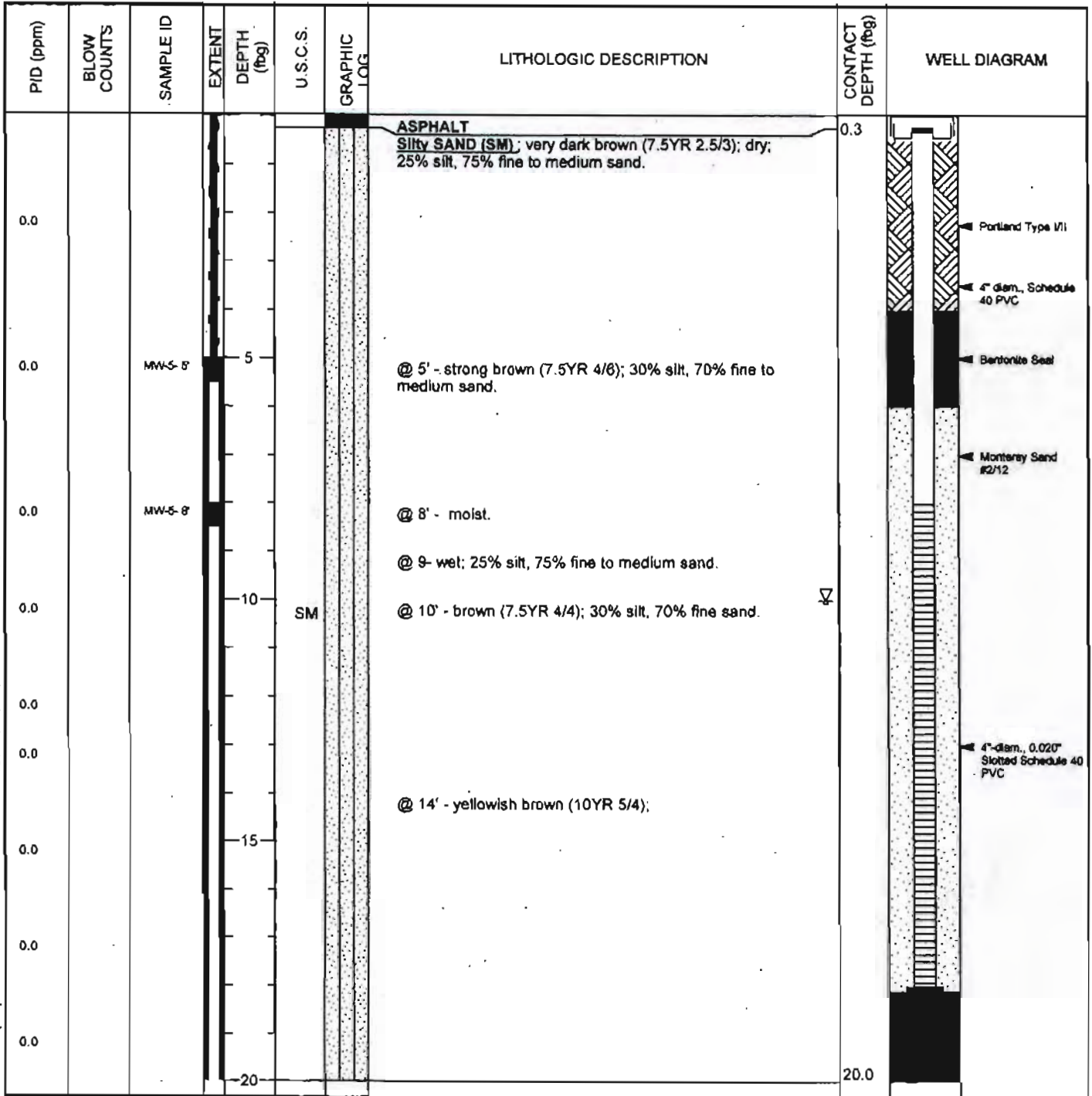
MW-4
GW@31-34'



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-5
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	18-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	24-Feb-09
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct-push & hollow-stem auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10", 2" below 18 fbg.	SCREENED INTERVALS	8 to 18 fbg
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	10.00 fbg
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS	Air knifed to 5 fbg		



WELL LOG (P/D) [SHELL] & CHARIS 0602-060204-106485-1060204-GINT.GPJ DEFAULT.T.GDT 4/1/09

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORINGWELL NAME	MW-5
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	18-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	24-Feb-09

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0									
0.0							@ 23' - 30% silt, 70% fine to medium sand.		
0.0				25	SM				← Bentonite Seal
0.0							@ 28' - 40% silt, 60% fine sand.		
0.0							@ 29' - brown (10YR 4/3); 20% silt, 80% fine to medium sand.		
0.0				30			@ 30' - brown (10YR 5/3).		
		MW-5 GW@31-34'					@ 31-34' -Groundwater grab sample collected. No lithologic log.	31.0	
								34.0	Bottom of Boring @ 34 fbg

WELL LOG (PID) I:\SHELL\US-CHARS\0802-1062004-10648E9-1062004-GINT.GPJ DEFAULT.GDT 4/1/08

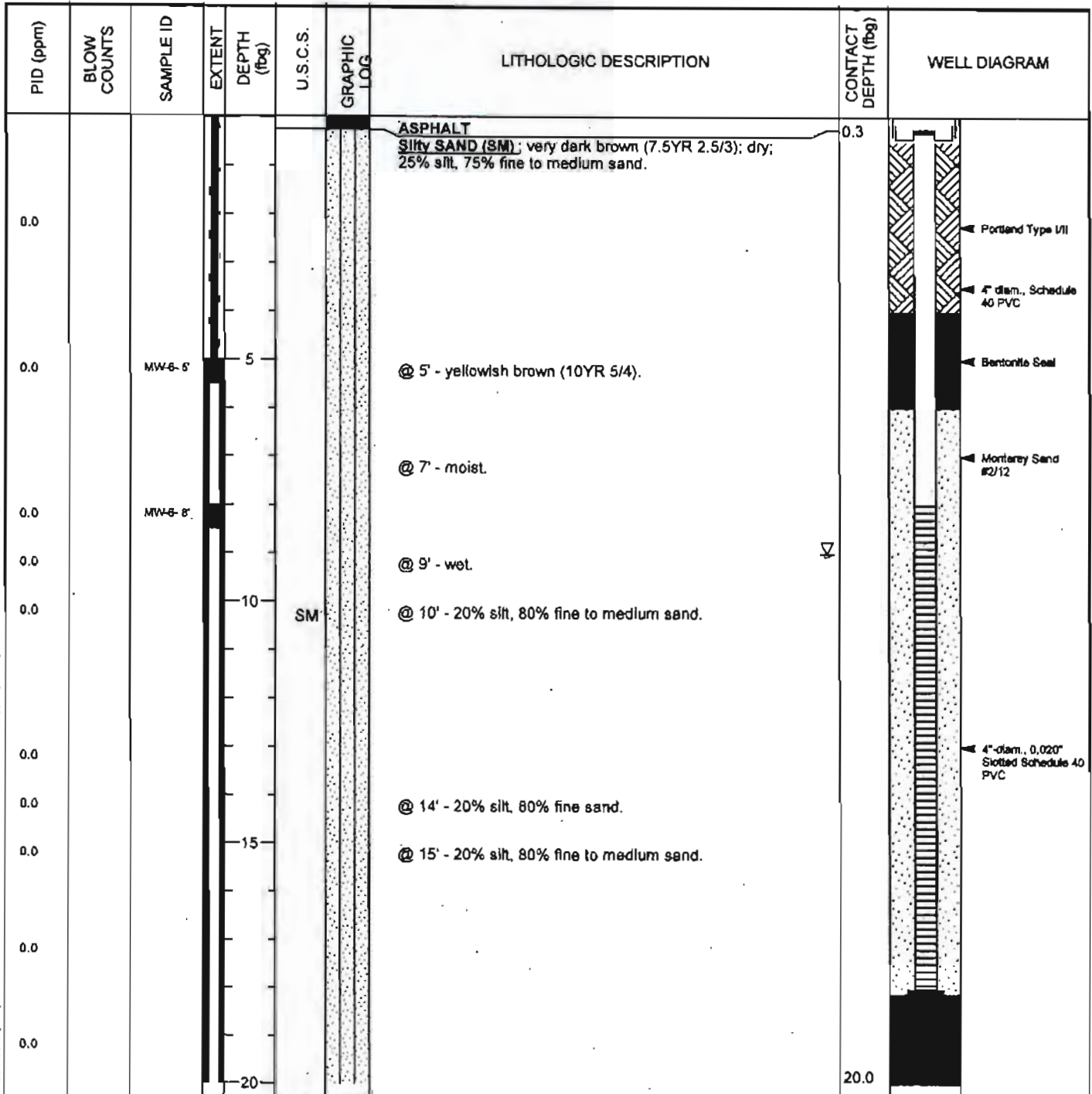


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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-6
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	19-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	21-Feb-09
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct-push & hollow-stem auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10", 2" below 18 fbg.	SCREENED INTERVALS	8 to 18 fbg
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	9.00 fbg
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS	Air knifed to 5 fbg		

WELL LOG (PID): I:\SHELL\B-CHARS\060204-10648E9-1060204-GINT.GPJ DEFAULT.GDT 4/1/09



Continued Next Page



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-6
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	19-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	21-Feb-09

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0							@ 20' - dark yellowish brown (10YR 4/4); 25% silt, 76% fine to medium sand.		
0.0									
0.0									
0.0				25	SM		@ 25' - light olive brown (2.5Y 5/4); 25% silt, 75% fine sand.		
							@ 27' - no recovery.		
0.0							@ 29' -dark grayish brown (2.5Y 4/2); 20% silt, 80% fine to medium sand.		
0.0				30					
		MW-6 GW@31-34'					@ 31-34' -Groundwater grab sample collected. No lithologic log.	31.0	
								34.0	Bottom of Boring @ 34 fbg

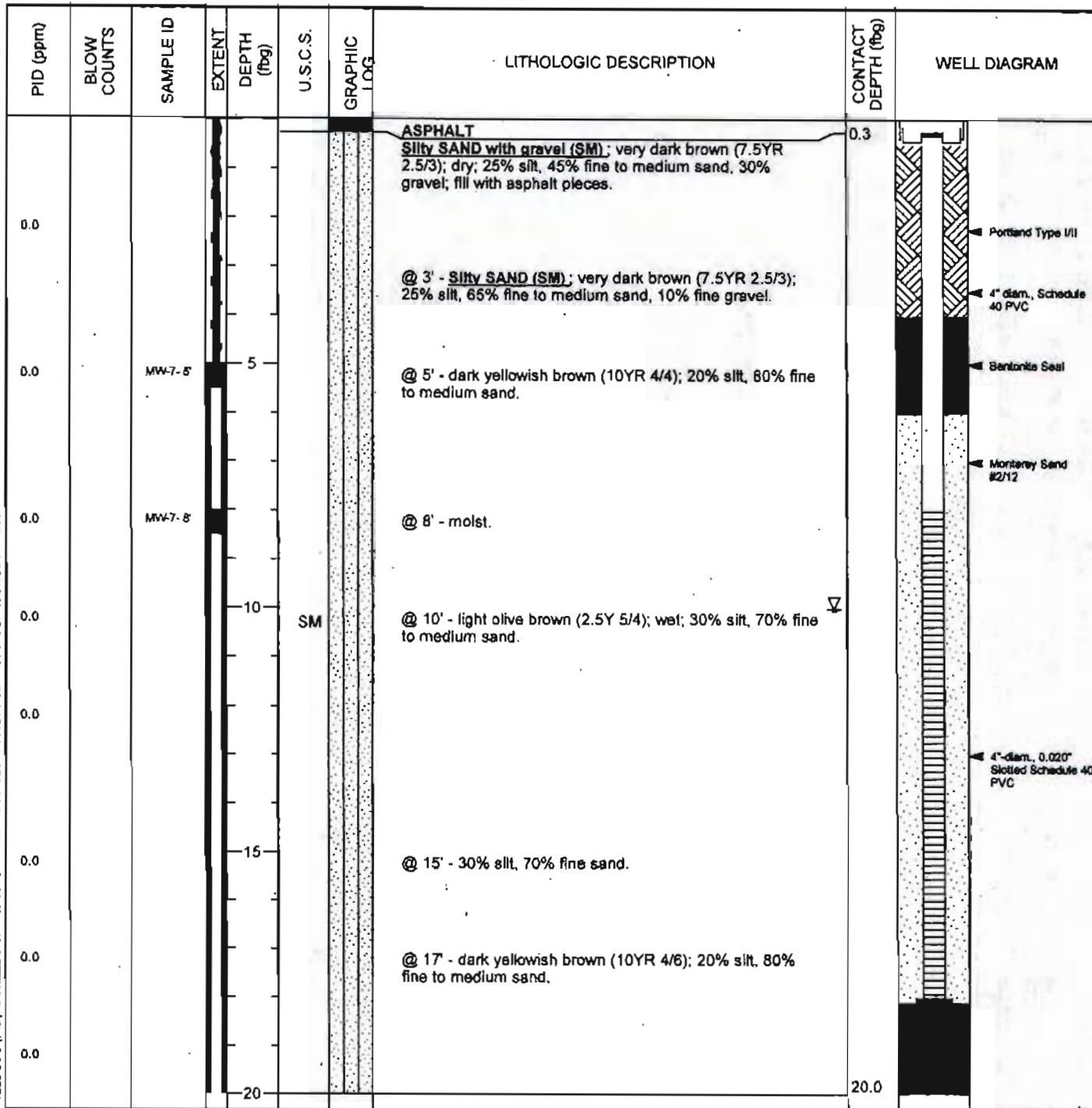
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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-7
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	17-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	25-Feb-09
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct-push & hollow-stem auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10", 2" below 18 fbg.	SCREENED INTERVALS	8 to 18 fbg
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	10.00 fbg
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS	Air knifed to 5 fbg		



WELL LOG (PID) \SHELL\B-C\HARS\0602-1060204-GINT.GPJ DEFAULT.GDT 4/1/09

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-7
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	17-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	25-Feb-09

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0									
0.0							@ 22' - light olive brown (2.5Y 5/3).		
0.0							@ 24' - light olive brown (2.5Y 5/4).		
0.0				25	SM				← Bentonite Seal
0.0							@ 29' - olive gray (5Y 5/2); 30% silt, 70% fine sand.		
0.0				30			@ 30' - olive gray (5Y 4/2); 20% silt, 80% fine to medium sand.	31.0	
		MW-7 GW@31-34'					@ 31-34' -Groundwater grab sample collected. No lithologic log.	34.0	Bottom of Boring @ 34 fbg

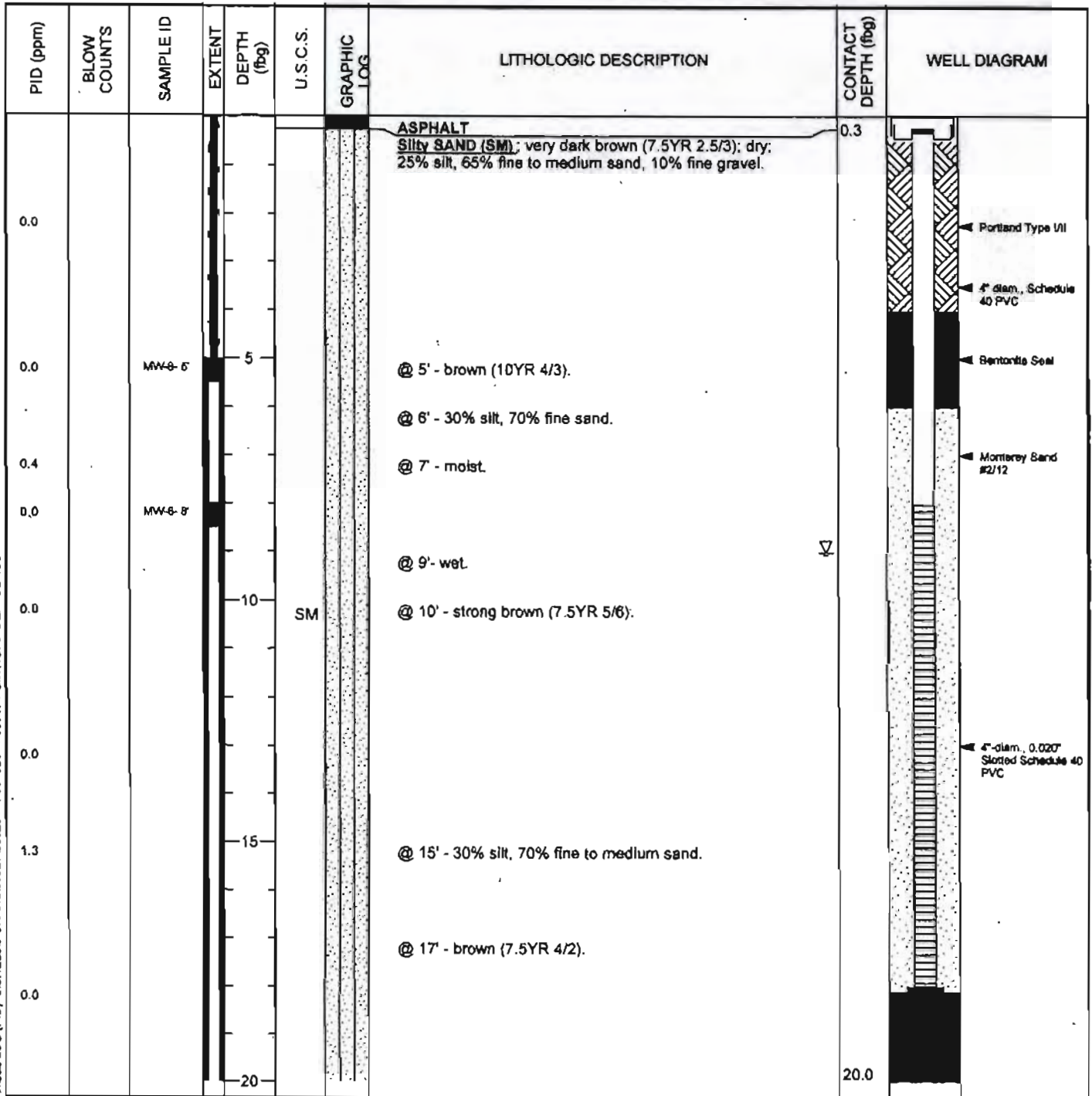
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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-8
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	17-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	23-Feb-09
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct-push & hollow-stem auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10", 2" below 18 fbg.	SCREENED INTERVALS	8 to 18 fbg
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	9.00 fbg
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS	Air knifed to 5 fbg		



WELL LOG (PID) USHELLUS-CHARS0602-1060204-GINT.GPJ DEFAULT.GDT 4/1/08

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-8
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	17-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	23-Feb-09

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ftg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ftg)	WELL DIAGRAM
0.4							@ 20' - olive brown (2.5Y 4/4).		
0.0									
0.0				25	SM		@ 25' - 15% silt, 85% fine to medium sand.		
0.0							@ 27' - dark gray (2.5Y 4/1); 45% silt, 55% fine to medium sand.		
0.0							@ 28' - 30% silt, 70% fine to medium sand.		
0.0							@ 29' - olive brown (2.5Y 4/3).		
0.0				30			@ 30' - brown (10YR 4/3); 20% silt, 80% fine to medium sand.		
							@ 31-34' -Groundwater grab sample collected. No lithologic log.	31.0	
								34.0	
									Bottom of Boring @ 34 ftg

WELL LOG (PID) \SHELL\US-CHARS\0602-060204-1064859-1065204-GINT.OPJ DEFAULT.GDT 4/1/08

MW-8
 GW@31-34'

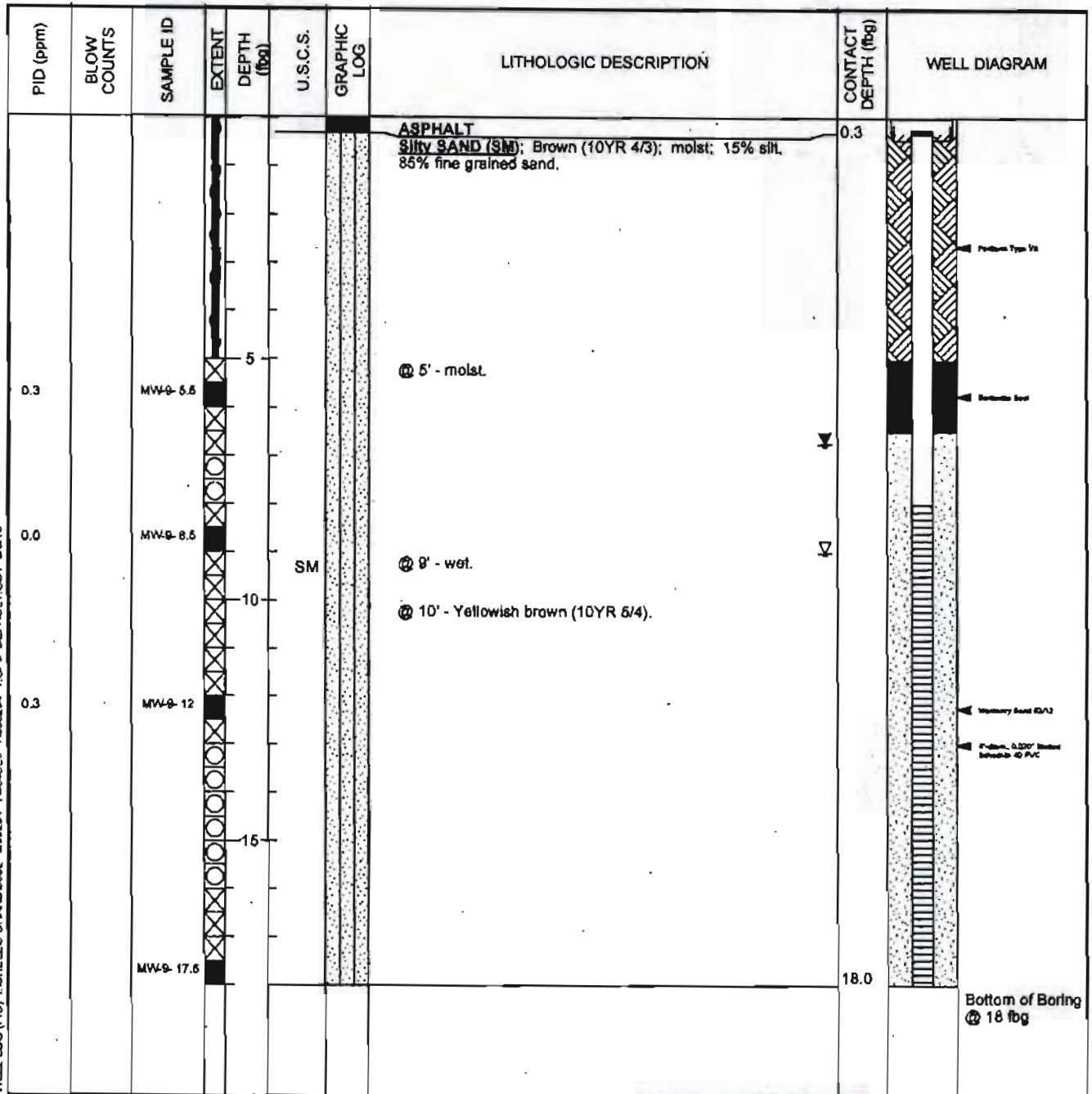
← Bentonite Seal



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-9
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	23-Mar-10
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	26-Mar-10
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	21-Apr-10 (72 gallons)
DRILLER	Gregg Drilling, C-57 #485166	GROUND SURFACE ELEVATION	26.04 ft above msl
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	25.70 ft above msl
BORING DIAMETER	10"	SCREENED INTERVALS	8 to 18 fbg
LOGGED BY	S. Lewis	DEPTH TO WATER (First Encountered)	9.00 fbg
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	8.74 fbg
REMARKS			



WELL LOG (PID) I:\SHELLV-CHARS\0602-060204-1\060204-1.GPJ DEFAULT.CUT 5/8/10

Geologic Log

PROJECT NO: 99-ENV168A

BORING NO: SB-1

SHEET 1 OF 1

CLIENT: MR. ALLAN A. SEABANC

SITE: 2301-2307 Lincoln Avenue, Alameda, California

LOGGED BY: Jennifer Pucci

CHECKED BY: Marda T. Herbert, R.G., C.E.G.

DATE: 7/24/99

DATE(S) DRILLED: 7/24/99

DATE(S) WELL INSTALLED:

BORING DIA: 2"

TOTAL DEPTH: 10ft.

GROUND ELEV:

T.O.C. ELEV:

DEPTH/ELEV. GROUND WATER (ATD): 8ft.

DRILLING CO: Fast-Tek, Inc.

DRILLER: TF

DRILLING EQUIP: Geoprobe

COORDINATES:

SAMPLING INFORMATION:

DRILLING SUMMARY: Continuous core advanced to 10 feet in depth; soil sample collected at 5' and 7.5'. Screened with PVC liner. Ground water encountered at 8'. Backfilled with neat cement slurry.

Sample No.	Recovery	Well Diagram	Depth Elev.	Graphic Log	Sample	Lithologic Description Description, Color, Density, Moisture
			0			GROUND SURFACE
						SAND (SP) - fine grained, medium brown, no moisture, no odor
SB-1 @ 5'	3.0 for 4.0		5		X	As Above
SB-1 @ 7.5'	4.0 for 4.0	▽ Approximate ground water level.			X	As Above, slightly moist
			10			End Boring at 10 feet below ground surface.
			15			
			20			
			25			
			30			
			35			

Geologic Log

PROJECT NO: 99-ENV168A

BORING NO: SB-2

SHEET 1 OF 1

CLIENT: MR. ALLAN A. SEABANC

SITE: 2301-2307 Lincoln Avenue, Alameda, California

LOGGED BY: Jennifer Pucci

CHECKED BY: Marda T. Herbert, R.G., C.E.G.

DATE: 7/24/99

DATE(S) DRILLED: 7/24/99

DATE(S) WELL INSTALLED:

BORING DIA: 2"

TOTAL DEPTH: 10ft.

GROUND ELEV:

T.O.C. ELEV:

DEPTH/ELEV. GROUND WATER (ATD): 8ft.

DRILLING CO: Fast-Tek, Inc.

DRILLER: TF

DRILLING EQUIP: Geoprobe

COORDINATES:

SAMPLING INFORMATION:

DRILLING SUMMARY: Continuous core advanced to 10 feet in depth; soil sample collected at 5' and 7.5'. Screened with PVC liner. Ground water encountered at 8'. Backfilled with neat cement slurry.

Sample No.	Recovery	Well Diagram	Depth Elev.	Graphic Log Sample	Lithologic Description Description, Color, Density, Moisture
			0		GROUND SURFACE
	3.0 for 4.0				SAND (SP) - fine grained, medium brown, no moisture, no odor
SB-2 @ 5'	4.0 for 4.0		5	X	As Above
SB-2 @ 7.5'		▽ Approximate ground water level.		X	As Above
			10		End Boring at 10 feet below ground surface.
			15		
			20		
			25		
			30		
			35		

Geologic Log

PROJECT NO: 99-ENV168A

BORING NO: SB-3

SHEET 1 OF 1

CLIENT: MR. ALLAN A. SEABANC

SITE: 2301-2307 Lincoln Avenue, Alameda, California

LOGGED BY: Jennifer Pucci

CHECKED BY: Marda T. Herbert, R.G., C.E.G.

DATE: 7/24/99

DATE(S) DRILLED: 7/24/99

DATE(S) WELL INSTALLED:

BORING DIA: 2"

TOTAL DEPTH: 10ft.

GROUND ELEV:

T.O.C. ELEV:

DEPTH/ELEV. GROUND WATER (ATD); 8ft.

DRILLING CO: Fast-Tek, Inc.

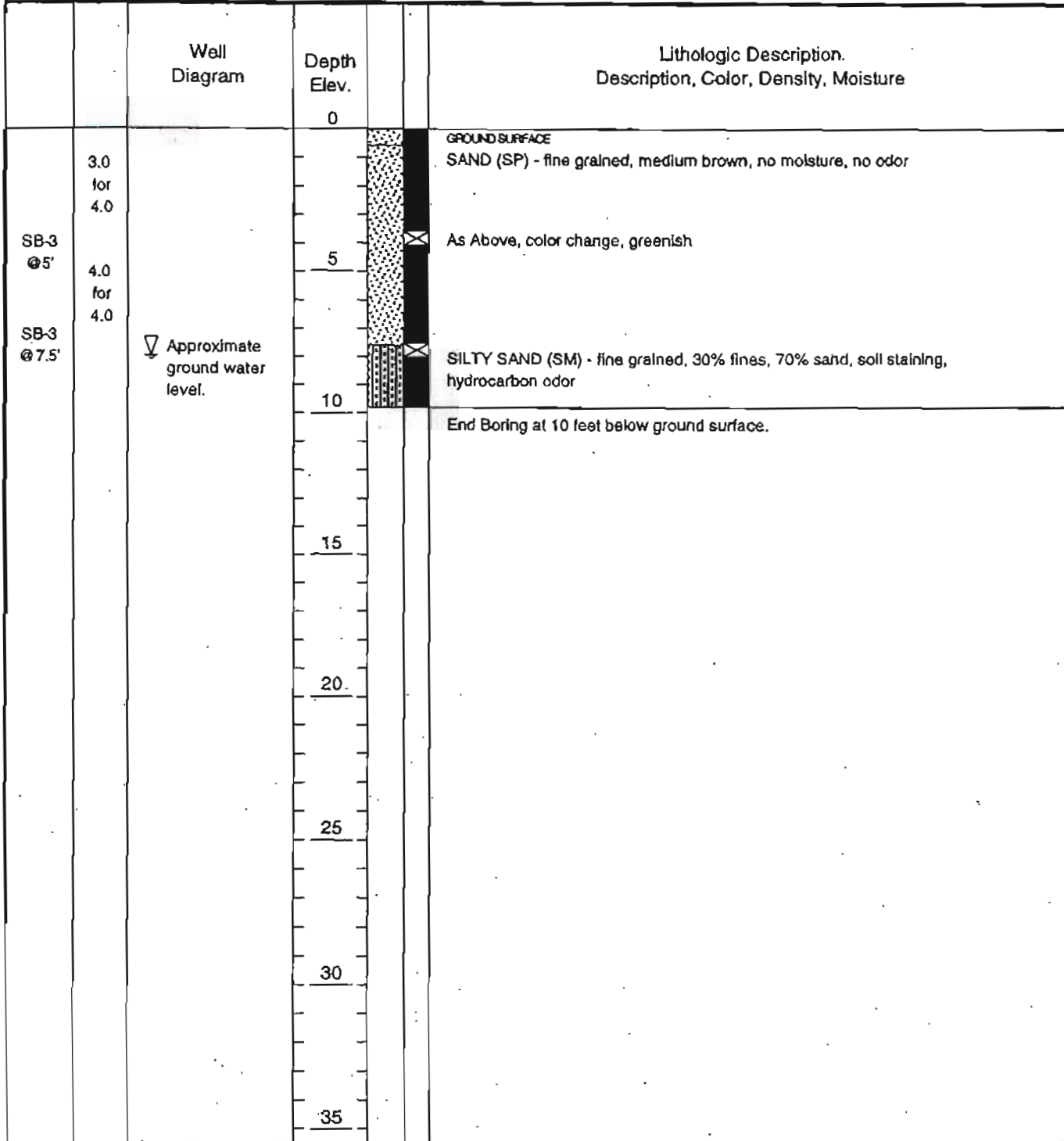
DRILLER: TF

DRILLING EQUIP: Geoprobe

COORDINATES:

SAMPLING INFORMATION:

DRILLING SUMMARY: Continuous core advanced to 10 feet in depth; soil sample collected at 5' and 7.5'. Screened with PVC liner. Ground water encountered at 8'. Backfilled with neat cement slurry.



Geologic Log

PROJECT NO: 99-ENV168A

BORING NO: SB-4

SHEET 1 OF 1

CLIENT: MR. ALLAN A. SEABANC

SITE: 2301-2307 Lincoln Avenue, Alameda, California

LOGGED BY: Jennifer Puod

CHECKED BY: Marda T. Herbert, P.G., C.E.G.

DATE: 7/24/99

DATE(S) DRILLED: 7/24/99

DATE(S) WELL INSTALLED:

BORING DIA: 2"

TOTAL DEPTH: 10ft.

GROUND ELEV:

T.O.C. ELEV:

DEPTH/ELEV. GROUND WATER (ATD): 8ft.

DRILLING CO: Fast-Tek, Inc.

DRILLER: TF

DRILLING EQUIP: Geoprobe

COORDINATES:

SAMPLING INFORMATION:

DRILLING SUMMARY: Continuous core advanced to 10 feet in depth; soil sample collected at 5' and 7.5'. Screened with PVC liner. Ground water encountered at 8'. Backfilled with neat cement slurry.

		Well Diagram	Depth Elev.	Lithologic Description Description, Color, Density, Moisture
			0	ASPHALT SURFACE
	3.0 for 4.0			SAND (SP) - fine grained, medium brown, no moisture, no odor
SB-4 @5'	5		As Above	
SB-4 @7.5'	3.0 for 4.0		As Above, moist	
			10	End Boring at 10 feet below ground surface.
			15	
			20	
			25	
			30	
			35	

Geologic Log

PROJECT NO: 99-ENV168A

BORING NO: SB-6

SHEET 1 OF 1

CLIENT: MR. ALLAN A. SEABANG

SITE: 2301-2307 Lincoln Avenue, Alameda, California

LOGGED BY: Jennifer Pucci

CHECKED BY: Marda T. Herbert, R.G., C.E.G.

DATE: 7/24/99

DATE(S) DRILLED: 7/24/99

DATE(S) WELL INSTALLED:

BORING DIA: 2"

TOTAL DEPTH: 10ft.

GROUND ELEV:

T.O.C. ELEV:

DEPTH/ELEV. GROUND WATER (ATD): 8ft.

DRILLING CO: Fast-Tek, Inc.

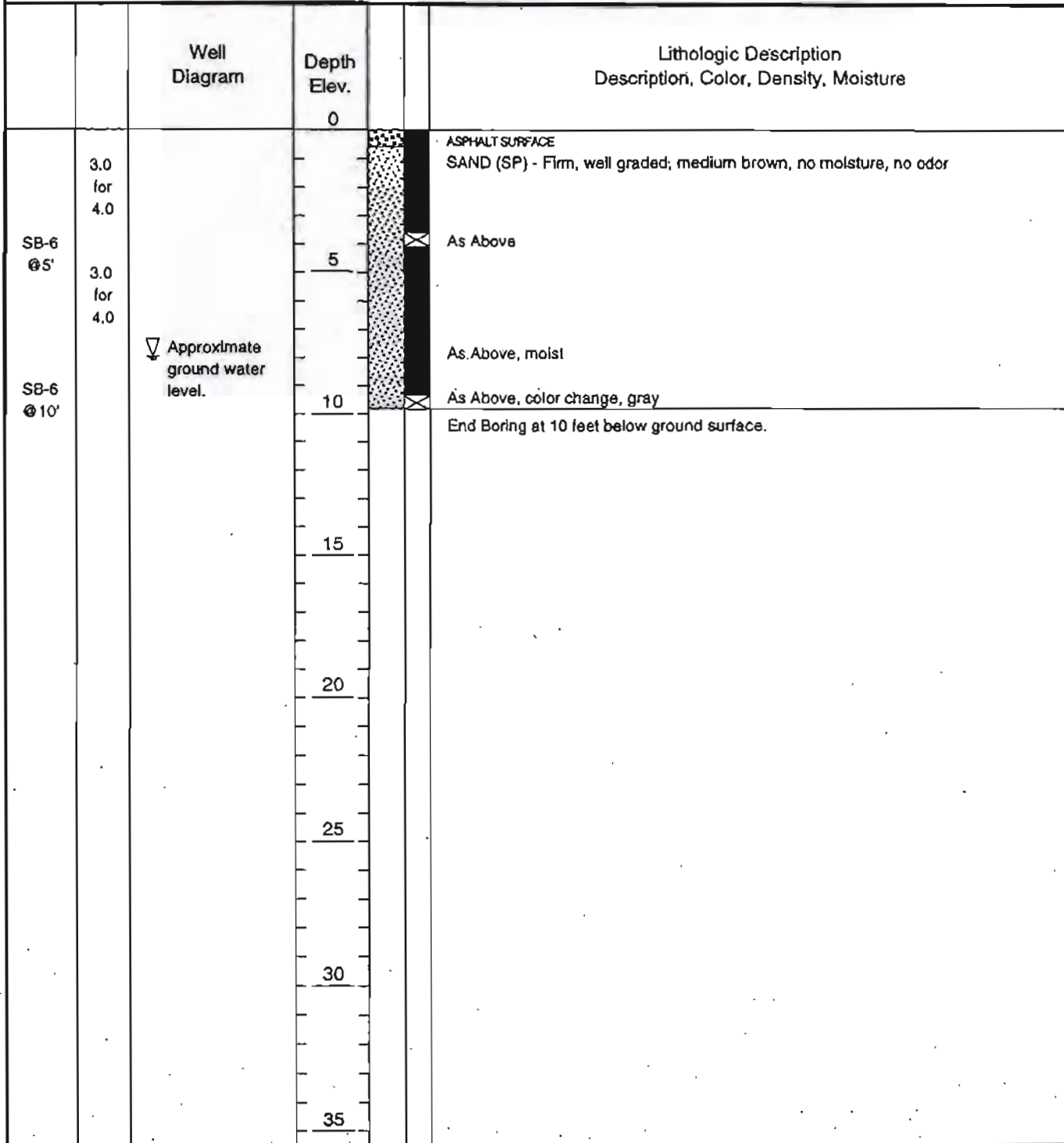
DRILLER: TF

DRILLING EQUIP: Geoprobe

COORDINATES:

SAMPLING INFORMATION:

DRILLING SUMMARY: Continuous core advanced to 10 feet in depth; soil sample collected at 5' and 10'. Screened with PVC liner. Ground water encountered at 8'. Backfilled with neat cement slurry.



PROJECT: 2310-2307 LINCOLN AVENUE Alameda, California		Log of Boring No. EB-1	
BORING LOCATION: N: 2106513.72; E: 6058187.37		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Vironex, Inc.		DATE STARTED: 8/15/07	DATE FINISHED: 8/15/07
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 15.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: Geoprobe 66DT		DEPTH TO WATER (ft.): NA	FIRST NA
SAMPLING METHOD: Geoprobe DT21 dual-tube sampling system [4' x 1.25"]		LOGGED BY: C. Payne	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: R. Schultz	REG. NO. CHG 833

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
					Surface Elevation: Not surveyed	
					ASPHALTIC CONCRETE : (4 inches thick)	
1				3.1	POORLY GRADED GRAVEL with SILT and SAND (GP-GM): dark brown (10YR 3/3), moist, 60% fine to coarse gravel, 30% fine to coarse sand, 10% nonplastic fines [FILL]	OVM = MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard.
2				1.6	POORLY GRADED SAND with SILT and GRAVEL (SP-SM): dark yellowish brown (10YR 3/4), moist, 70% fine to coarse sand, 20% fine to coarse gravel, 10% nonplastic fines	
3				0.6	POORLY GRADED GRAVEL with SAND and SILT (SP-SM) very dark brown (10YR 2/2)	Hand augered to 5 feet bgs; cuttings logged for lithology.
4	EB-14			0.6	greenish black (10Y 2.5/1)	
5				188		Boring location coordinates based on the California Coordinate System NAD 83, Zone III.
6				153	POORLY GRADED GRAVEL with SAND (GP)	
7				423	POORLY GRADED SAND with SILT (SP-SM): greenish black (5GY 2.5/1), moist, 90% fine sand, 10% nonplastic fines	Grab groundwater sample EB-1-081607 collected through 5 feet of 1-inch OD Sch. 40 PVC screen (0.010-inch slot size) placed in borehole from 10 to 15 feet bgs. Drive casing retracted from bottom of boring to 10 feet bgs to maintain surface seal.
8				98.1		
10	EB-1-10.5			1588	dark greenish gray (10BG 4/1)	Borehole destroyed using Type I-II neat cement grout placed from total depth to ground surface with a tremie pipe.
11				82	wet	
13				11.2	yellowish brown (10YR 5/4)	
14	EB-1-14			3.9		
15					Bottom of boring at 15.0 feet	

OAKBORE (REV. 8/2007)

PROJECT: 2310-2307 LINCOLN AVENUE
Alameda, California

Log of Boring No. EB-2

BORING LOCATION: N: 2106499.42; E: 6058183.62		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Vironex, Inc.		DATE STARTED: 8/16/07	DATE FINISHED: 8/16/07
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 15.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: Geoprobe 66DT		DEPTH TO WATER (ft.): NA	FIRST NA
SAMPLING METHOD: Geoprobe DT21 dual-tube sampling system [4' x 1.25"]		LOGGED BY: C. Payne	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: R. Schultz	REG. NO. CHG 833

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. Inter. Surface Elevation: Not surveyed	REMARKS
	Sample No.	Sample	Blows/ Foot			
0					ASPHALTIC CONCRETE : (4 inches thick)	<p>OVM = MiniRAE 2000 PID calibrated with 100 ppm Isobutylene standard.</p> <p>Hand augered to 3 feet bgs; cuttings logged for lithology.</p> <p>Boring location coordinates based on the California Coordinate System NAD 83, Zone III.</p> <p>Grab groundwater sample EB-2 collected through 5 feet of 1-inch OD Sch. 40 PVC screen (0.010-inch slot size) placed in borehole from 10 to 15 feet bgs. drive casing retracted from bottom of boring to 10 feet bgs to maintain surface seal.</p> <p>Borehole destroyed using Type I-II neat cement grout placed from total depth to ground surface with a tremie pipe.</p>
1					POORLY GRADED GRAVEL with SILT and SAND (GP-GM): dark grayish brown (10YR 4/2), moist, 60% fine to coarse gravel, 30% fine to coarse sand, 10% nonplastic fines (FILL)	
2				3.2	POORLY GRADED SAND with SILT (SP-SM): dark yellowish brown (10YR 4/3), moist, 70% fine to coarse sand, 20% fine to coarse gravel, 10% nonplastic fines very dark greenish gray (10BG 3/1) or 10GY 3/1	
3				50.4	CONCRETE	
4				14.1		
5				164	POORLY GRADED GRAVEL with SAND and SILT (GP-GM)	
6					POORLY GRADED SAND with SILT and GRAVEL (SP-SM)	
7				12	ASPHALTIC CONCRETE	
8				127		
9	EB-2-9			1175	wet contains bone fragments	
10				1312		
11				6.7	dark yellowish brown (10YR 4/4)	
12				2.3		
13	EB-2-13					
14				2		
15					Bottom of boring at 15.0 feet	



PROJECT: 2310-2307 LINCOLN AVENUE Alameda, California				Log of Boring No. EB-3		
BORING LOCATION: N: 2106484.08; E: 6058180.63				ELEVATION AND DATUM: Not surveyed; datum is ground surface		
DRILLING CONTRACTOR: Vironex, Inc.				DATE STARTED: 8/16/07	DATE FINISHED: 8/16/07	
DRILLING METHOD: Direct push				TOTAL DEPTH (ft.): 15.0	MEASURING POINT: Ground surface	
DRILLING EQUIPMENT: Geoprobe 66DT				DEPTH TO WATER (ft.):	FIRST NA	COMPL NA
SAMPLING METHOD: Geoprobe DT21 dual-tube sampling system [4' x 1.25"]				LOGGED BY: C. Payne		
HAMMER WEIGHT: NA		DROP: NA		RESPONSIBLE PROFESSIONAL: R. Schultz		REG. NO. CHG 833
DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. Inter.	REMARKS
	Sample No.	Sample Blows/ Foot	Foot			
					Surface Elevation: Not surveyed	
0.9					ASPHALTIC CONCRETE : (4 inches thick)	
1				0.5	POORLY GRADED GRAVEL with SILT and SAND (GP-GM): dark grayish brown (10YR 4/2), moist, 60% fine to coarse gravel, 30% fine to coarse sand, 10% nonplastic fines [FILL]	OVM = MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard.
2				4.8	POORLY GRADED SAND with SILT and GRAVEL (SP-SM): dark yellowish brown (10YR 3/4), moist, 70% fine to coarse sand, 20% fine to coarse gravel, 10% nonplastic fines	
3				0	POORLY GRADED GRAVEL with SAND and SILT (GP-GM)	Hand augered to 5 feet bgs; cuttings logged for lithology.
4						
5						Boring location coordinates based on the California Coordinate System NAD 83, Zone III.
6					POORLY GRADED GRAVEL with SILT (SP-SM)	
6					POORLY GRADED GRAVEL with SILT (SP-SM)	
7						
8					POORLY GRADED SAND with SILT (SP-SM): dark greenish gray (10Y 4/1), moist, 90% fine sand, 10% nonplastic fines	
9	EB-3-9			1556		Grab groundwater sample EB-3-081607 collected through 5 feet of 1-inch OD Sch. 40 PVC screen (0.010-inch slot size) placed in borehole from 10 to 15 feet bgs. drive casing retracted from bottom of boring to 10 feet bgs to maintain surface seal.
10				6.5	dark yellowish brown (10YR 4/4) wet	
11				1.4		
12	EB-3-11.8			1.3		
13						
14	EB-1-14			0.8		Borehole destroyed using Type I-II neat cement grout placed from total depth to ground surface with a tremie pipe.
15					Bottom of boring at 15.0 feet	

CAKBORREV (REV. 8/2007)

PROJECT: 2310-2307 LINCOLN AVENUE Alameda, California				Log of Boring No. EB-4			
BORING LOCATION: N: 2106486.10; E: 6058164.55				ELEVATION AND DATUM: Not surveyed; datum is ground surface			
DRILLING CONTRACTOR: Vironex, Inc.				DATE STARTED: 8/16/07	DATE FINISHED: 8/16/07		
DRILLING METHOD: Direct push				TOTAL DEPTH (ft.): 15.0	MEASURING POINT: Ground surface		
DRILLING EQUIPMENT: Geoprobe 66DT				DEPTH TO WATER (ft.):	FIRST NA	COMPL. NA	
SAMPLING METHOD: Geoprobe DT21 dual-tube sampling system (4' x 1.25")				LOGGED BY: C. Payne			
HAMMER WEIGHT: NA		DROP: NA		RESPONSIBLE PROFESSIONAL: R. Schultz		REG. NO. CHG 833	
DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION		REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. Inter.		
					Surface Elevation: Not surveyed		
0					ASPHALTIC CONCRETE : (4 inches thick)		
1					POORLY GRADED GRAVEL with SILT and SAND (GP-GM): dark brown (10YR 3/3), moist, 60% fine to coarse gravel, 30% fine sand, 10% nonplastic fines [FILL]		OVM = MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard.
2					POORLY GRADED SAND with SILT and GRAVEL (SP-SM): dark yellowish brown (10YR 3/4), moist, 70% fine to coarse sand, 20% fine to coarse gravel, 10% nonplastic fines		
3					POORLY GRADED GRAVEL with SILT and SAND (GP-GM)		
4					POORLY GRADED SAND with SILT (SP-SM): dark yellowish brown (10YR 4/4), moist, 90% fine sand, 10% nonplastic fines		
5				1			Boring location coordinates based on the California Coordinate System NAD 83, Zone III.
6				0.9			
7							Grab groundwater sample EB-4-081607 collected through 5 feet of 1-inch OD Sch. 40 PVC screen (0.010-inch slot size) placed in borehole from 10 to 15 feet bgs. drive casing retracted from bottom of boring to 10 feet bgs to maintain surface seal.
8							
9							
10	EB-4-10.2			13.1	brown (10YR 4/3), wet		Borehole destroyed using Type I-II neat cement grout placed from total depth to ground surface with a tremie pipe.
11					mottled brown (10YR 4/3) and dark yellowish brown (10YR 3/4)		
12							
13	EB-4-13			0.5			
14							
15					dark yellowish brown (10YR 3/4)		
				Bottom of boring at 15.0 feet			

PROJECT: 2310-2307 LINCOLN AVENUE Alameda, California		Log of Boring No. EB-5	
BORING LOCATION: N: 2106500.51; E: 6058173.64		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Vironex, Inc.		DATE STARTED: 8/16/07	DATE FINISHED: 8/16/07
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 15.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: Geoprobe 66DT		DEPTH TO WATER (ft.): NA	FIRST NA
SAMPLING METHOD: Geoprobe DT21 dual-tube sampling system [4' x 1.25"]		LOGGED BY: C. Payne	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: R. Schultz	REG. NO. CHG 833

DEPTH (feet)	SAMPLES		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample Blows/ Foot			
				Surface Elevation: Not surveyed	
1	EB-5-2.5 (sample not drawn correctly for 2.5 ID?)			ASPHALTIC CONCRETE : (4 inches thick)	OVM = MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard.
2			3.2	POORLY GRADED GRAVEL with SILT and SAND (GP-GM): dark grayish brown (10YR 4/2), moist, 60% fine to coarse gravel, 30% fine to coarse sand, 10% nonplastic fines [FILL]	
2			5.5	POORLY GRADED SAND with SILT and GRAVEL (SP-SM): dark yellowish brown (10YR 3/3), moist, 65% fine to coarse sand, 25% fine to coarse gravel, 10% nonplastic fines	
3				POORLY GRADED SAND with SILT (SP-SM): very dark grayish brown (10YR 2/2), moist, 90% fine sand, 10% nonplastic fines	Hand augered to 5 feet bgs; cuttings logged for lithology.
3			28		
5			20.6		Boring location coordinates based on the California Coordinate System NAD 83, Zone III.
6			979		
7			492	↓ very dark greenish gray (10GY 3/1)	
9	EB-5-9		1385		Grab groundwater sample EB-5-081607 collected through 5 feet of 1-inch OD Sch. 40 PVC screen (0.010-inch slot size) placed in borehole from 10 to 15 feet bgs. drive casing retracted from bottom of boring to 10 feet bgs to maintain surface seal.
10			158	↓ wet	
12	EB-5-12.5		8.8	↓ dark yellowish brown (10YR 4/4)	
13			1.5		Borehole destroyed using Type I-II neat cement grout placed from total depth to ground surface with a tremie pipe.
14					
15			1.2	Bottom of boring at 15.0 feet	

PROJECT: 2310-2307 LINCOLN AVENUE Alameda, California				Log of Boring No. EB-6			
BORING LOCATION: N: 2106515.42; E: 6058175.77				ELEVATION AND DATUM: Not surveyed; datum is ground surface			
DRILLING CONTRACTOR: Vironex, Inc.				DATE STARTED: 8/16/07	DATE FINISHED: 8/16/07		
DRILLING METHOD: Direct push				TOTAL DEPTH (ft.): 15.0	MEASURING POINT: Ground surface		
DRILLING EQUIPMENT: Geoprobe 66DT				DEPTH TO WATER (ft.):	FIRST NA	COMPL. NA	
SAMPLING METHOD: Geoprobe DT21 dual-tube sampling system [4' x 1.25"]				LOGGED BY: C. Payne			
HAMMER WEIGHT: NA		DROP: NA		RESPONSIBLE PROFESSIONAL: R. Schultz		REG. NO. CHG 833	
DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION		REMARKS
	Sample No.	Sample Blows/ Foot	Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.		
					Surface Elevation: Not surveyed		
					ASPHALTIC CONCRETE : (4 inches thick)		
1				2.1	POORLY GRADED GRAVEL with SILT and SAND (GP-GM): dark grayish brown (10YR 4/2), moist, 60% fine to coarse gravel, 30% fine to coarse sand, 10% nonplastic fines [FILL]		OVM = MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard.
2				0	POORLY GRADED SAND with SILT and GRAVEL (SP-SM): dark yellowish brown (10YR 3/4), moist, 60% fine to coarse sand, 30% fine gravel, 10% nonplastic fines		
3				0			
4				9.1	POORLY GRADED SAND with SILT (SP-SM): dark grayish brown (2.5Y 4/2), moist, 90% fine sand, 10% nonplastic fines		Hand augered to 5 feet bgs; cuttings logged for lithology.
5							
6				64	↓ grayish brown (2.5Y 5/2)		Boring location coordinates based on the California Coordinate System NAD 83, Zone III.
7							
8				221	↓ dark greenish gray (10Y 4/1)		
9				1481			Grab groundwater sample EB-6-081607 collected through 5 feet of 1-inch OD Sch. 40 PVC screen (0.010-inch slot size) placed in borehole from 10 to 15 feet bgs. drive casing retracted from bottom of boring to 10 feet bgs to maintain surface seal.
10	EB-6-9.5			1487	↓ wet		
11				23.5			
12							Borehole destroyed using Type I-II neat cement grout placed from total depth to ground surface with a tremie pipe.
13				7.9	↓ yellowish brown (10YR 5/6)		
14	EB-6-14			2.6			
15					Bottom of boring at 15.0 feet		

OKBREV (REV. 8/2007)

PROJECT: 2310-2307 LINCOLN AVENUE Alameda, California					Log of Boring No. EB-8		
BORING LOCATION: Parking lot, 47' E, 41' N of property line					ELEVATION AND DATUM: Not surveyed; datum is ground surface		
DRILLING CONTRACTOR: Vironex, Inc.					DATE STARTED: 8/15/07		DATE FINISHED: 8/15/07
DRILLING METHOD: Hand auger					TOTAL DEPTH (ft.): 3.0		MEASURING POINT: Ground surface
DRILLING EQUIPMENT: Hand auger					DEPTH TO WATER (ft.):	FIRST NA	COMPL. NA
SAMPLING METHOD: Hand auger					LOGGED BY: C. Payne		
HAMMER WEIGHT: NA			DROP: NA		RESPONSIBLE PROFESSIONAL: R. Schultz		REG. NO. CHG 833
DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION		REMARKS
	Sample No.	Sample Blows/ Foot	Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.		
					Surface Elevation: Not surveyed		
1	EB-9-2			1.8	ASPHALTIC CONCRETE : (4 inches thick)		OVM = MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard.
2				0.6	POORLY GRADED GRAVEL with SILT and SAND (GP-GM): dark brown (10YR 3/3), moist, 60% fine to coarse gravel, 30% fine to coarse sand, 10% nonplastic fines [FILL]		
3					POORLY GRADED SAND with SILT and GRAVEL (SP-SM): dark yellowish brown (10YR 3/4), moist, 70% fine to coarse sand, 20% fine to coarse gravel, 10% nonplastic fines		
4					Bottom of boring at 3.0 feet		Hand augered to 3 feet bgs; cuttings logged for lithology
5							Borehole destroyed using Type II neat cement grout placed from total depth to ground surface with a tremie pipe.
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PROJECT: 2310-2307 LINCOLN AVENUE Alameda, California		Log of Boring No. EB-9	
BORING LOCATION: Parking lot, 51' E, 40' N of property line		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Vironex, Inc.		DATE STARTED: 8/15/07	DATE FINISHED: 8/15/07
DRILLING METHOD: Hand auger		TOTAL DEPTH (ft.): 3.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: Hand auger		DEPTH TO WATER (ft.): NA	FIRST NA
SAMPLING METHOD: Hand auger		COMPL. NA	
HAMMER WEIGHT: NA		LOGGED BY: C. Payne	
DROP: NA		RESPONSIBLE PROFESSIONAL: R. Schultz	REG. NO. CHG 833

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. Inter.	REMARKS
	Sample No.	Sample Blows/ Foot	Foot			
					Surface Elevation: Not surveyed	
1	EB-9-2			2.7	ASPHALTIC CONCRETE : (4 inches thick)	OVM = MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard.
				0.4	POORLY GRADED GRAVEL with SILT and SAND (GP-GM): dark brown (10YR 3/3), moist, 60% fine to coarse gravel, 30% fine to coarse sand, 10% nonplastic fines [FILL]	
2					POORLY GRADED SAND with SILT and GRAVEL (SP-SM): dark yellowish brown (10YR 3/4), moist, 55% fine to coarse sand, 35% fine gravel, 10% nonplastic fines	
3					POORLY GRADED SAND with SILT (SP-SM)	Hand augered to 3 feet bgs; cuttings logged for lithology.
					Bottom of boring at 3.0 feet	
4						Borehole destroyed using Type I-II neat cement grout placed from total depth to ground surface with a tremie pipe.
5						
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DAKBOREV (REV. 8/2007)

PROJECT: 2310-2307 LINCOLN AVENUE Alameda, California				Log of Boring No. EB-10			
BORING LOCATION: Parking lot, 48' E, 23' N of property line				ELEVATION AND DATUM: Not surveyed; datum is ground surface			
DRILLING CONTRACTOR: Vironex, Inc.				DATE STARTED: 8/16/07		DATE FINISHED: 8/16/07	
DRILLING METHOD: Hand auger				TOTAL DEPTH (ft.): 2.0		MEASURING POINT: Ground surface	
DRILLING EQUIPMENT: Hand auger				DEPTH TO WATER (ft.): NA		FIRST NA	
SAMPLING METHOD: Hand auger				LOGGED BY: C. Payne		COMPL. NA	
HAMMER WEIGHT: NA		DROP: NA		RESPONSIBLE PROFESSIONAL: R. Schultz		REG. NO. CHG 833	
DEPTH (feet)	SAMPLES			OVM READING READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS	
	Sample No.	Sample	Blows/ Foot				
					Surface Elevation: Not surveyed		
					ASPHALTIC CONCRETE ; (4 inches thick)		
1	EB-10-2				POORLY GRADED GRAVEL with SILT and SAND (GP-GM): dark brown (10YR 3/3), moist, 60% fine to coarse gravel, 30% fine to coarse sand, 10% nonplastic fines [FILL]		
2					POORLY GRADED SAND with SILT and GRAVEL (SP-SM): dark yellowish brown (10YR 3/3), moist, 60% fine to coarse sand, 30% fine gravel, 10% nonplastic fines		
						Bottom of boring at 2.0 feet	
3						Hand augered to 2 feet bgs; cuttings logged for lithology.	
4							
5							
6						Borehole destroyed using Type I-II neat cement grout placed from total depth to ground surface with a tremie pipe.	
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8							
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15							

PROJECT: 2310-2307 LINCOLN AVENUE Alameda, California		Log of Boring No. EB-11	
BORING LOCATION: Parking lot, 56' E, 22' N of property line		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Vironex, Inc.		DATE STARTED: 8/16/07	DATE FINISHED: 8/16/07
DRILLING METHOD: Hand auger		TOTAL DEPTH (ft.): 2.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: Hand auger		DEPTH TO WATER (ft.): NA	FIRST NA
SAMPLING METHOD: Hand auger		COMPL. NA	
HAMMER WEIGHT: NA		LOGGED BY: C. Payne	
DROP: NA		RESPONSIBLE PROFESSIONAL: R. Schultz	REG. NO. CHG 833

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
					Surface Elevation: Not surveyed	
1	EB-11-2			1.1	ASPHALTIC CONCRETE : (4 inches thick)	OVM = MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard.
2					POORLY GRADED GRAVEL with SILT and SAND (GP-GM): dark brown (10YR 3/3), moist, 60% fine to coarse gravel, 30% fine to coarse sand, 10% nonplastic fines [FILL]	
3					POORLY GRADED SAND with SILT and GRAVEL (SP-SM): dark yellowish brown (10YR 3/3), moist, 75% fine to coarse sand, 15% fine gravel, 10% nonplastic fines	
4					Bottom of boring at 2.0 feet	Hand augered to 2 feet bgs; cuttings logged for lithology.
5						Borehole destroyed using Type I-II neat cement grout placed from total depth to ground surface with a tremie pipe.
6						
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12						
13						
14						
15						

04XB0REV (REV: 02/07)



Conestoga-Rovers & Associates
 5900 Hollis Street, Suite A
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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	B-5
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	18-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	27-Feb-09
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485185	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct-push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	9.00 fbg
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				0.0			ASPHALT.	0.3	 Portland Type III
				0.0			Silty SAND with gravel (SM); very dark brown (7.5YR 2.5/3); dry; 20% silt, 60% fine to medium sand, 20% fine gravel.		
				0.0			@ 3' - Silty SAND (SM); 25% silt, 65% fine to medium sand; 10% fine gravel.		
		B-5-8.5		5	SM		@ 5' - dark yellowish brown (10YR 4/6); 20% silt, 80% fine to medium sand.		
				0.0			@ 7' - moist.		
				0.0			@ 9-13' -Groundwater grab sample collected. No lithologic log.	9.0	
		B-5 GW @ 9-13'		10					
								13.0	Bottom of Boring @ 13 fbg

WELL LOG (PID) I:\SHELL\US-CHARS\060204-060204-GINT.OPJ DEFAULT.GDT 4/1/08



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	B-6
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	13-Jul-10
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	13-Jul-10
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Air-knife & Direct-push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2.5"	SCREENED INTERVALS	NA
LOGGED BY	P. Schaefer	DEPTH TO WATER (First Encountered)	12.20 fbg
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft)	WELL DIAGRAM
0.0				0			Silty SAND (SM) ; brown (10YR 4/3); moist; 15% silt, 85% fine grained sand.		
0.0		B-6-6.25		5			@ 6.5' - yellowish brown (10YR 5/4).		
0.0		B-6-8.0		8	SM				
0.0		B-6-9.5		10			@ 11' - wet.		
0.0				15				15.0	Bottom of Boring @ 15 fbg

WELL LOG (PID) \ASHELL\8-CHARS\0602-060204-1\060204-1.GPJ DEFAULT.GDT 8/24/10



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	B-7
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	19-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	27-Feb-09
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct-push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	9.00 fbg
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS	Afr knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT.	0.3	
							Silty SAND (SM); very dark brown (7.5YR 2.5/3); dry; 25% silt, 75% fine to medium sand.		
0.0									
				5	SM		@ 5' - brown (7.5YR 4/4); 20% silt, 80% fine to medium sand.		
0.0		B-7-5.5'					@ 7' - moist.		
0.0							@ 8' - very dark grayish brown (10YR 3/2).		
13.0		B-7-8.5'					@ 9-13' -Groundwater grab sample collected. No lithologic log.	9.0	
1,487		B-7 GWS@ 13'		10					
								13.0	Bottom of Boring @ 13 fbg

WELL LOG (PID) I:\SHELL\16-CHARS\0602-060204-1064859-1060204-GINT.GPJ DEFAULT.GDT 4/1/09



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	B-8
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	18-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	27-Feb-09
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct-push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	9.00 fbg
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
						ASPHALT.	0.3	
						Silty SAND (SM); vary dark brown (7.5YR 2.5/3); dry; 25% silt, 75% fine to medium sand.		
			5	SM		@ 5' - dark yellowish brown (10YR 4/4); 20% silt, 80% fine to medium sand.		
0.0		B-8-5.5						
3.3								
6.57						@ 7' - dark greenish gray (5GY 4/1); moist.		
1,158		B-8-8.5						
		B-8 (GW @ 9.13')	10			@ 9-13' -Groundwater grab sample collected. No lithologic log.	9.0	
							13.0	
								Bottom of Boring @ 13 fbg

WELL LOG (PID) I:\SHELL\B-CHARS\060204-060204-GHNT.GPJ DEFAULT.GDT 4/1/09



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SVP-1
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	19-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	19-Feb-09
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Air-knife	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3"	SCREENED INTERVALS	4.9 to 5 fbg
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA

REMARKS

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0			0.3	SM		ASPHALT Silty SAND (SM); very dark brown (7.5YR 2.5/3); dry; 25% silt, 75% fine to medium sand.	0.3	<p>Portland Type III Bentonite Seal Monterey Sand #2/12 High Density Porous Polyethylene Soil Vapor Implant Bottom of Boring @ 5 fbg</p>
			5.0				5.0	

WELL LOG (PID) I:\SHELL\6-CHARS\060204-1060204-1060204-GINT.OPJ DEFAULT.GOT 4/1/09



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SVP-2
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	19-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	19-Feb-09
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Air-knife	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3"	SCREENED INTERVALS	4.8 to 5 fbg
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0				0.3			ASPHALT	0.3	<p>Portland Type I/II Bentonite Seal Monterey Sand #2/12 High Density Porous Polyethylene Soil Vapor Implant Bottom of Boring @ 5 fbg</p>
				5	SM		Silty SAND (SM); very dark brown (7.5YR 2.5/3); dry; 25% silt, 65% fine to medium sand, 10% fine gravel.	5.0	

WELL LOG (PID) I:\SHELL\B-CHARS\0602-060204-1064RES-1060204-GINT.GPJ DEFAULT.GDT 4/1/09



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SVP-3
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	18-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	18-Feb-09
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Air-knife	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3"	SCREENED INTERVALS	4.9 to 5 fbg
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0							<p>ASPHALT</p> <p>Silty SAND with gravel (SM); very dark brown (7.5YR 2.5/3); dry; 25% silt, 45% fine to medium sand, 30% gravel; fill, asphalt pieces 1-3", garbage.</p> <p>@ 2' - Silty SAND (SM); 25% silt, 65% fine to medium sand, 10% fine gravel.</p>	0.3	<p>Portland Type VII</p> <p>Bentonite Seal</p> <p>Monterey Sand #2/12</p> <p>High Density Porous Polyethylene Soil Vapor Implant</p> <p>Bottom of Boring @ 5 fbg</p>
				5	SM			5.0	

WELL LOG (PID) 11SHELL18-CHARS0602-060204-10648EB-1060204-GINT.GPJ DEFAULT.GDT 4/1/08



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SVP-4
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	18-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	18-Feb-09
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Air-knife	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3"	SCREENED INTERVALS	4.9 to 5 fbg
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0					SM		ASPHALT Silty SAND (SM) ; very dark brown (7.5YR 2.5/3); dry; 25% silt, 65% fine to medium sand, 10% fine gravel.	0.3	<ul style="list-style-type: none"> Portland Type III Bentonite Seal Monteary Sand #2/12 High Density Porous Polystyrene Soil Vapor Implant
				5				5.0	Bottom of Boring @ 5 fbg

WELL LOG (PID) IN SHELL 16-CHARS 0602-1060204-GINT.GPJ DEFAULT.T.GDT 4/1/09



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SVP-4
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	25-Mar-10
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	25-Mar-10
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Air-knife	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3"	SCREENED INTERVALS	2-2.1, 5-5.1
LOGGED BY	S. Lewis	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft)	WELL DIAGRAM
0.0				0.3		ASPHALT		0.3	
				5	SM	Silty SAND (SM); Very dark brown (7.5YR 2.5/3); dry; 25% silt, 65% fine to medium grained sand, 10% fine gravel.	6.0	Bottom of Boring @ 5 ft	

WELL LOG (PID) [1;SHELL;CHARS0602-060204-1.GPJ] DEFAULT.GDT 5/8/10



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SVP-5
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	18-Feb-09
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	18-Feb-09
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Air-knife	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3"	SCREENED INTERVALS	4.9 to 5 fbg
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0				0.3			ASPHALT Silty SAND with gravel (SM); very dark brown (7.5YR 2.5/3); dry; 25% silt, 45% fine to medium sand, 30% gravel; fill. @ 1' - Silty SAND (SM); 25% silt, 65% fine to medium sand, 10% fine gravel.	0.3	<p>Portland Type III Bentonite Seal Monterey Sand #2/12 High Density Porous Polyethylene Soil Vapor Implant Bottom of Boring @ 5 fbg</p>
				5.0	SM			5.0	

WELL LOG (PID) I:\SHELL\6-CHAR\S0602-060204-106485-1060204-GINT.GPJ DEFAULT.GDT 4/1/09



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SVP-6
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	23-Mar-10
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	23-Mar-10
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Air-knife	TOP OF CASING ELEVATION	NA
BORING DIAMETER	4"	SCREENED INTERVALS	NA
LOGGED BY	S. Lewis	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft)	WELL DIAGRAM
				0.3			ASPHALT	0.3	
				5.1	SM		Silty SAND (SM); Brown (10YR 4/3); dry; 15% silt, 85% fine sand.	5.1	
				5					

WELL LOG (PID) I:\SHELL\W-CHARS\060204-1064869-1060204-1.GPJ DEFAULT.GDT 5/6/10



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SVP-7
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	23-Mar-10
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	23-Mar-10
PROJECT NUMBER	080204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485185	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Air-knife	TOP OF CASING ELEVATION	NA
BORING DIAMETER	4"	SCREENED INTERVALS	NA
LOGGED BY	S. Lewis	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				0.3		CONCRETE		0.3	
				5	SM	Silty SAND (SM): Very dark grayish brown (10YR 5/3); dry; 15% silt, 80% fine grained sand, 5% fine gravel.	5.4		

WELL LOG (PID) I:\SHELL\6-CHAS\60602-1060204-10648EP-1060204-1.GPJ DEFAULT.GDT 5/8/10



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SVP-8
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	23-Mar-10
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	23-Mar-10
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Air-knife	TOP OF CASING ELEVATION	NA
BORING DIAMETER	4"	SCREENED INTERVALS	NA
LOGGED BY	S. Lewis	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft)	WELL DIAGRAM
			5	SM		<p>Silty SAND with Gravel (SM); Brown (10YR 4/3); dry; 20% silt, 80% fine grained sand, 20% fine gravel.</p> <p>Silty SAND (SM); 15% silt, 85% fine sand.</p>	5.4	<p>← Screened Interval</p> <p>← 1" diam. 0.020" Slot Size Marlex Sert #212 Schedule 40 PVC</p> <p>← 1" diam. 0.020" Slot Size Marlex Sert #212 Schedule 40 PVC</p> <p>Bottom of Boring @ 5.4 ft</p>

WELL LOG (PID) IN SHELL & CHEMICALS 060204-106485-1060204-1.GPJ DEFAULT.GDT 5/6/10



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	COMP-1
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	07-Mar-11
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	07-Mar-11
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Vapor Tech Services	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hand-Auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3"	SCREENED INTERVALS	NA
LOGGED BY	O. Yan	DEPTH TO WATER (First Encountered)	7.00 fbg (07-Mar-11)
REVIEWED BY	P. Schaefer PG# 5612	DEPTH TO WATER (Static)	NA
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.4		COMP-1A	0.3			ASPHALT	0.3	
		COMP-1B	5	SM		Silty SAND (SM): Moderate dark brown (10 YR 4/3); dry; 5% clay, 15% silt, 75% fine sand, 5% fine gravel. @ 4fbg: Cobbles approximately 5" diameter. @ 6 fbg: 20% clay, 25% silt, 55% fine sand. @ 7 fbg: Wet.	7.00	
		COMP-1C						
956		COMP-1D	10			@ 9 fbg: Greenish gray (5 GY 5/1).	10.0	
								Bottom of Boring @ 10 fbg

WELL LOG (PID) \SHELL\B-CHARS\0602-060204-1.GPJ DEFAULT GDT 9/2/11



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	COMP-2
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	07-Mar-11
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	DRILLING COMPLETED	07-Mar-11
PROJECT NUMBER	060204	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Vaport Tech Services	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Air-knife	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3"	SCREENED INTERVALS	NA
LOGGED BY	O. Yan	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer PG# 5612	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
		COMP-2A					ASPHALT	0.3	<p>Portland Type III</p> <p>Bottom of Boring @ 4 fbg</p>
		COMP-2B			SM		Silty SAND (SM): Moderate dark brown (10 YR 4/3); dry, 5% clay, 25% silt, 70% fine sand.		
		COMP-2C					@ 2.5 fbg: Moist		
		COMP-2D						4.0	

WELL LOG (PID) KSHHELL18-CHARS0602-060204-10646E9-1060204-1.GPJ DEFAULT.GDT 6/2/11