



**CONESTOGA-ROVERS
& ASSOCIATES**

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
www.CRAworld.com

TRANSMITTAL

DATE: September 4, 2012 REFERENCE NO.: 060119
PROJECT NAME: 2350 (2368) Harrison Street, Oakland
TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED

11:00 am, Sep 05, 2012

Alameda County
Environmental Health

Please find enclosed: Draft Final
 Originals Other
 Prints

Sent via: Mail Same Day Courier
 Overnight Courier Other GeoTracker and Alameda County FTP

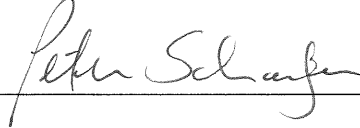
QUANTITY	DESCRIPTION
1	Well Destruction Work Plan

As Requested For Review and Comment
 For Your Use

COMMENTS:

If you have any questions regarding the contents of this document, please call Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US (electronic copy)
Richard Burge, 490 Grand Avenue, Suite 100, Oakland, CA 94610

Completed by: Peter Schaefer Signed: 

Filing: **Correspondence File**



Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Denis L. Brown
Shell Oil Products US
HSE – Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

Re: Former Shell Service Station
2350 (2368) Harrison Street
Oakland, California
SAP Code 173318
Incident No. 97743969
ACEH No. RO0000505

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

A handwritten signature in black ink, appearing to read "Denis L. Brown", is located below the "Sincerely," text.

Denis L. Brown
Senior Program Manager



WELL DESTRUCTION WORK PLAN

FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET
OAKLAND, CALIFORNIA

SAP CODE 173318
INCIDENT NO. 97743969
AGENCY NO. RO0000505

SEPTEMBER 4, 2012
REF. NO. 060119 (24)

This report is printed on recycled paper.

Prepared by:
Conestoga-Rovers
& Associates

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

Office: (510) 420-0700
Fax: (510) 420-9170

web: <http://www.CRAworld.com>

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this work plan on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell). The proposed well destructions are required for final case closure per Alameda County Environmental Health's (ACEH's) August 23, 2012 letter.

The site is a former Shell service station located on the southern corner of Harrison Street and Bay Place in Oakland, California (Figure 1). The layout of the former station (whose address was 2368 Harrison Street) included underground fuel storage tanks (USTs), a waste oil UST, three dispenser islands, and a station building (Figure 2). All USTs and fuel distribution and dispensing facilities have been removed. The site is currently occupied by a 7-Eleven Store (whose address is 2350 Harrison Street), and the area surrounding the station is of mixed commercial and residential use.

2.0 WORK TASKS

2.1 PERMITS

CRA will obtain an appropriate permit from Alameda County Public Works Agency.

2.2 HEALTH AND SITE SAFETY PLAN (HASP)

CRA will prepare a HASP to protect site workers. The plan will be kept on site during field activities and will be reviewed and signed by each site worker.

2.3 UTILITY CLEARANCE

CRA will mark the well locations, and the locations will be cleared through Underground Service Alert and a private line locator prior to removing the well boxes.

2.4 MONITORING WELL AND VAPOR PROBE DESTRUCTION

CRA proposes to properly destroy six monitoring wells (S-1 through S-6), four soil vapor probes (SVP-1 through SVP-3 and SVP-2A), and two near sub-slab soil vapor probes (SVP-4 and SVP-5). The monitoring wells will be destroyed by backfilling with

neat cement under pressure (pressure grouting). The soil vapor probes will be destroyed by drilling out the probe boring with an air-knife. The near sub-slab soil vapor probes will be destroyed by drilling out the probe tubing with a hammer drill. The well and soil vapor probe vaults will be removed, and the surface pavement will be patched with concrete to match the surrounding grade. CRA includes the well and probe logs in Appendix A. The proposed scope of work will be performed under the supervision of a professional geologist or engineer.

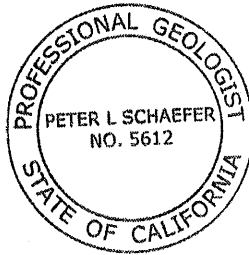
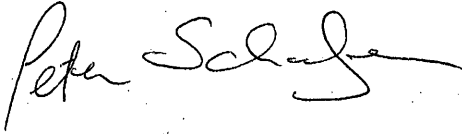
2.5 REPORT PREPARATION

Following completion of the well destructions, CRA will submit a brief report documenting the activities.

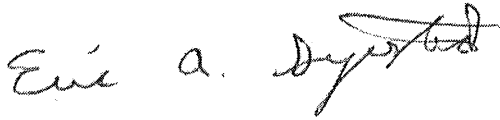
3.0 SCHEDULE

CRA will implement the well destructions upon receipt of the appropriate permits.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

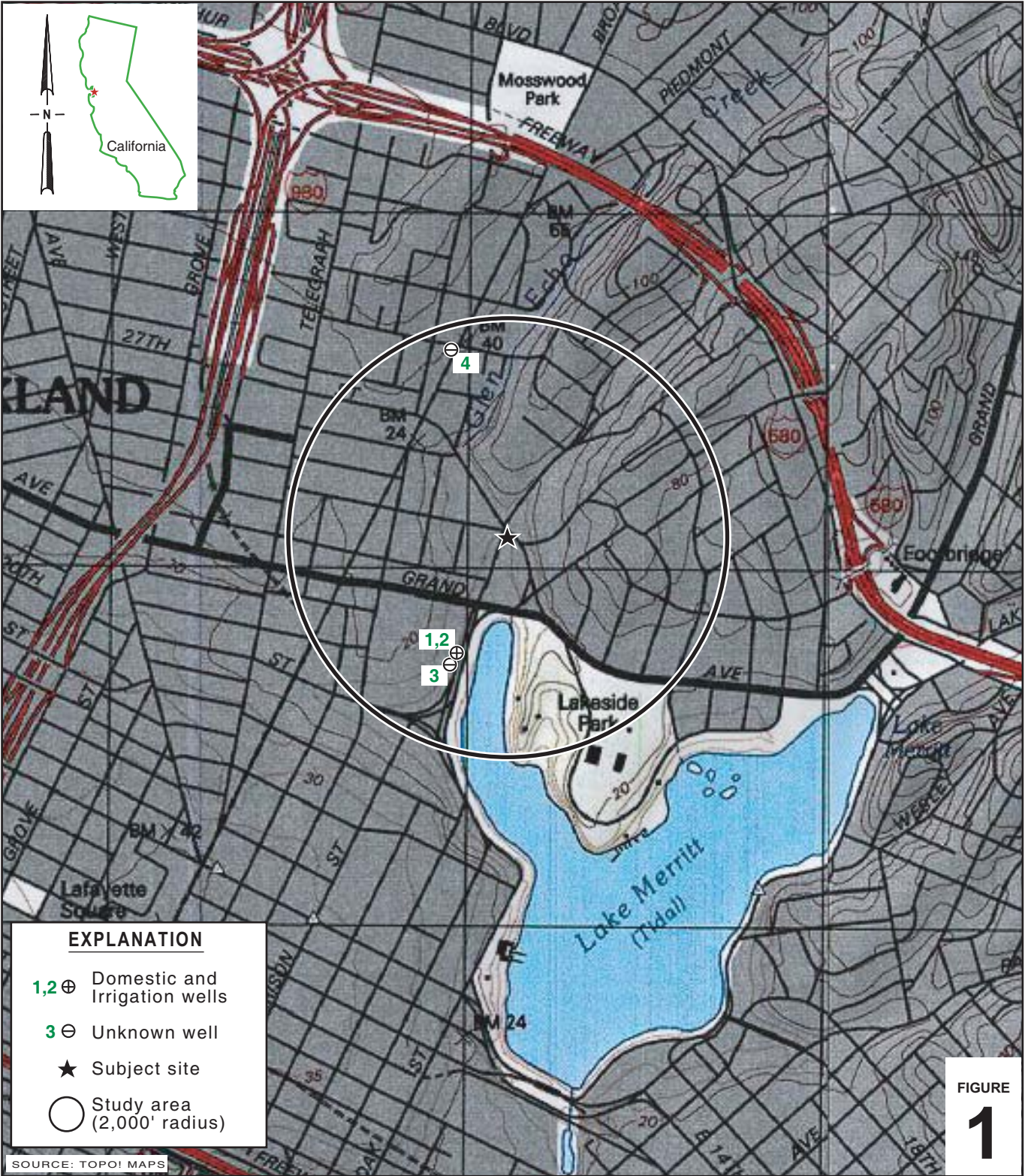


Peter Schaefer, CEG, CHG



Eric A. Syrstad, PG

FIGURES



EXPLANATION

- 1,2 ⊕ Domestic and Irrigation wells
- 3 ⊖ Unknown well
- ★ Subject site
- Study area (2,000' radius)

SOURCE: TOPOI MAPS



SCALE : 1" = 1/4 MILE

FIGURE

1

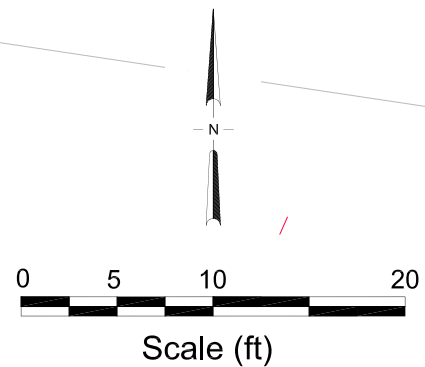
Former Shell Service Station

2350 (2368) Harrison Street
Oakland, California



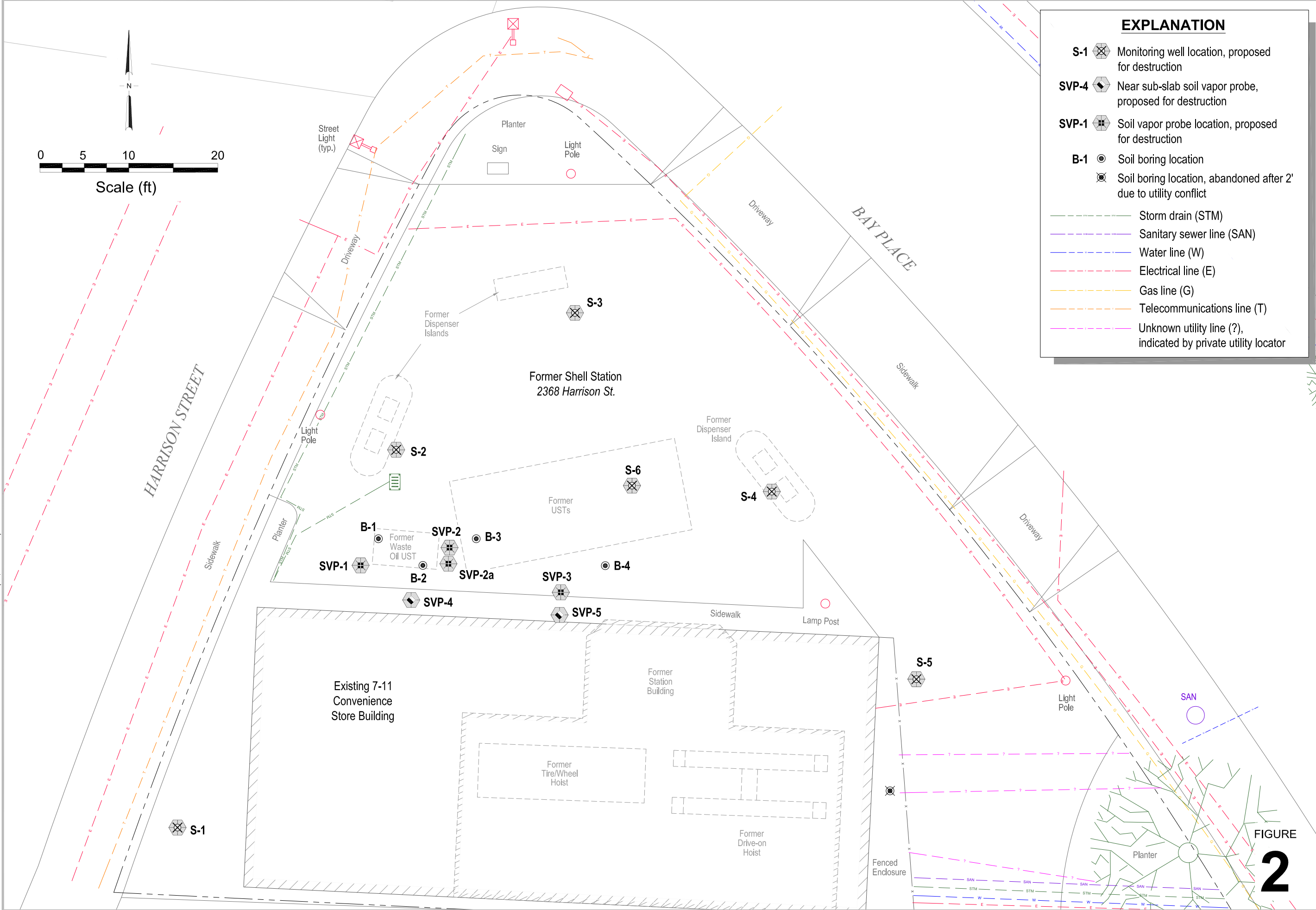
**CONESTOGA-ROVERS
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Vicinity Map



EXPLANATION	
S-1	Monitoring well location, proposed for destruction
SVP-4	Near sub-slab soil vapor probe, proposed for destruction
SVP-1	Soil vapor probe location, proposed for destruction
B-1	Soil boring location
	Soil boring location, abandoned after 2' due to utility conflict
--- Storm drain (STM)	
--- Sanitary sewer line (SAN)	
--- Water line (W)	
--- Electrical line (E)	
--- Gas line (G)	
--- Telecommunications line (T)	
--- Unknown utility line (?), indicated by private utility locator	

I:\Shell6-chars\0601--\060119-Oakland 2350 Harrison St\060119-FIGURES\060119 SITE PLAN (F2, 10'-SCALE).DWG



Former Shell Service Station
 2350 (2368) Harrison Street
 Oakland, California

FIGURE
2

APPENDIX A

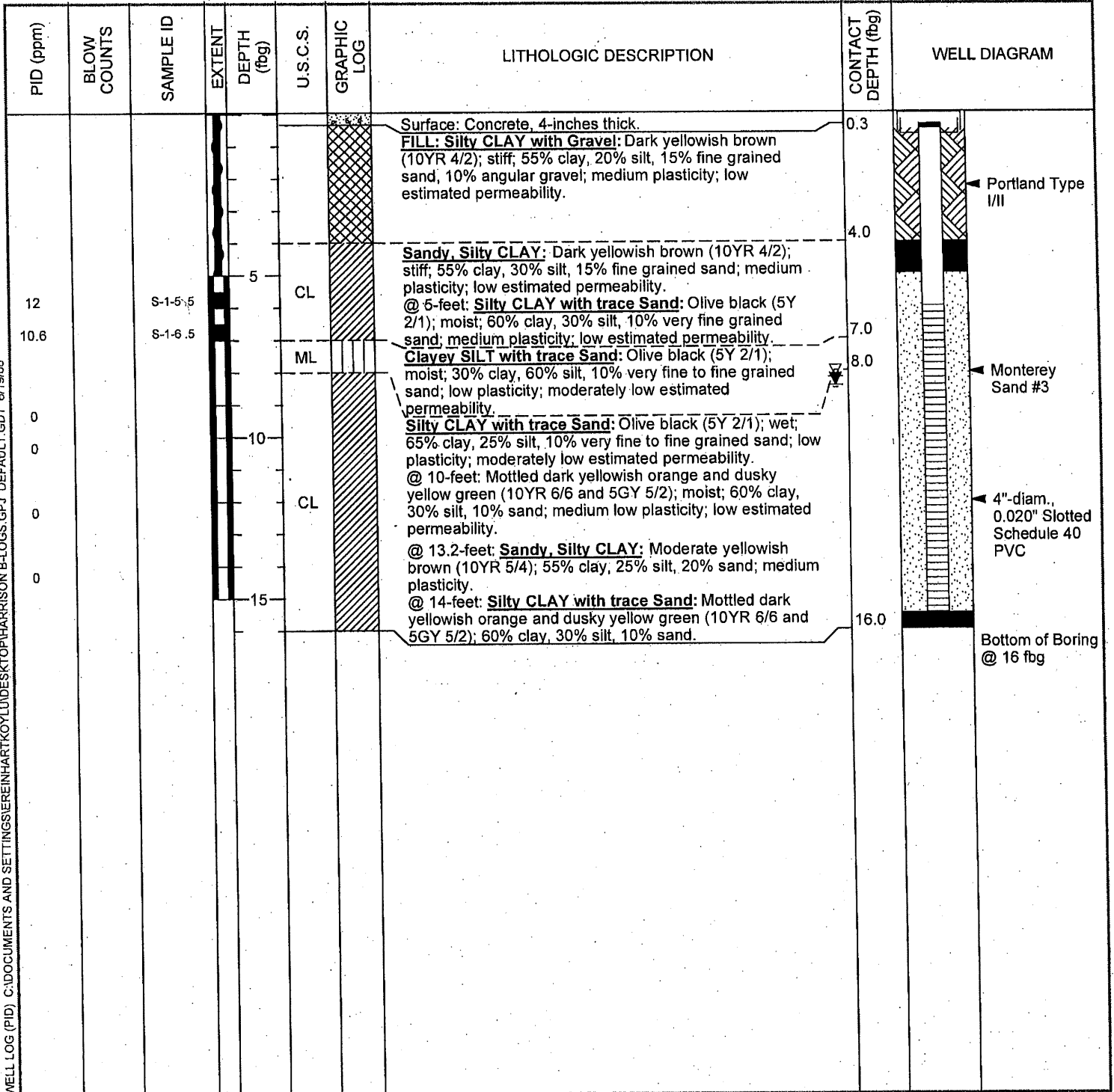
WELL AND VAPOR PROBE LOGS



Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

BORING/ WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	S-1
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	03-Jun-08
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	05-Jun-08
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	WDC Exploration	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	DP/HSA	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10-inch	SCREENED INTERVALS	6 to 15.5 fbg
LOGGED BY	E. Reinhart-Koylu/P. Schaefer	DEPTH TO WATER (First Encountered)	8.2 fbg (05-Jun-08) ▼
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	8.46 fbg (05-Jun-08) ▼
REMARKS	Cleared to 5 fbg using Water Knife		



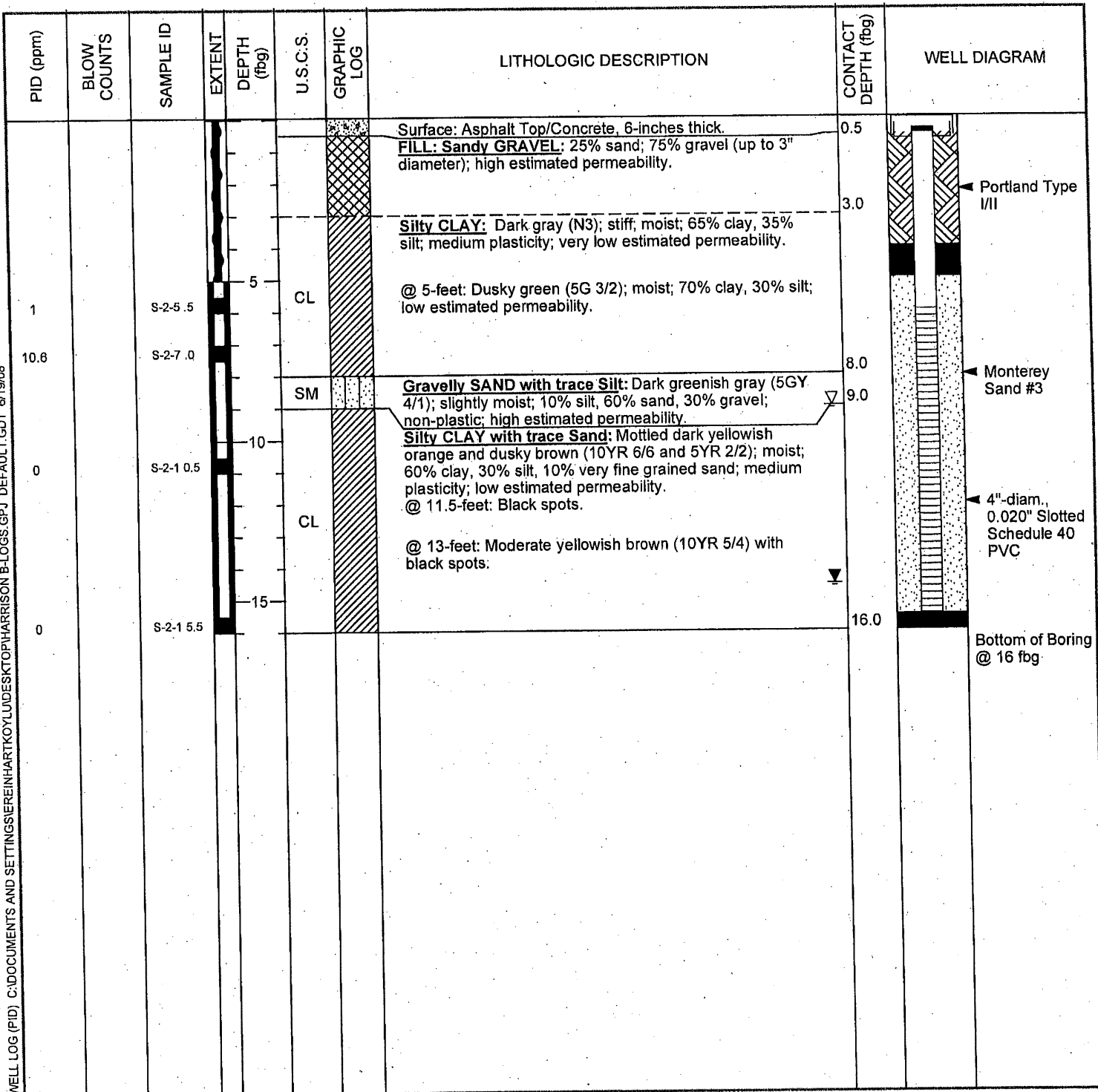
WELL LOG (PID) C:\DOCUMENTS AND SETTINGS\EREINHART\KYOYLUIDESKTOP\HARRISON B-LOGS.GPJ DEFAULT.GDT 6/19/08



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 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

BORING/ WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	S-2
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	02-Jun-08
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	05-Jun-08
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	WDC Exploration	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	DP/HSA	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10-inch	SCREENED INTERVALS	6 to 15.5 fbg
LOGGED BY	E. Reinhart-Koylu/P. Schaefer	DEPTH TO WATER (First Encountered)	9.0 fbg (05-Jun-08) ▼
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	14.55 fbg (05-Jun-08) ▼
REMARKS	Cleared to 5 fbg using Water Knife		



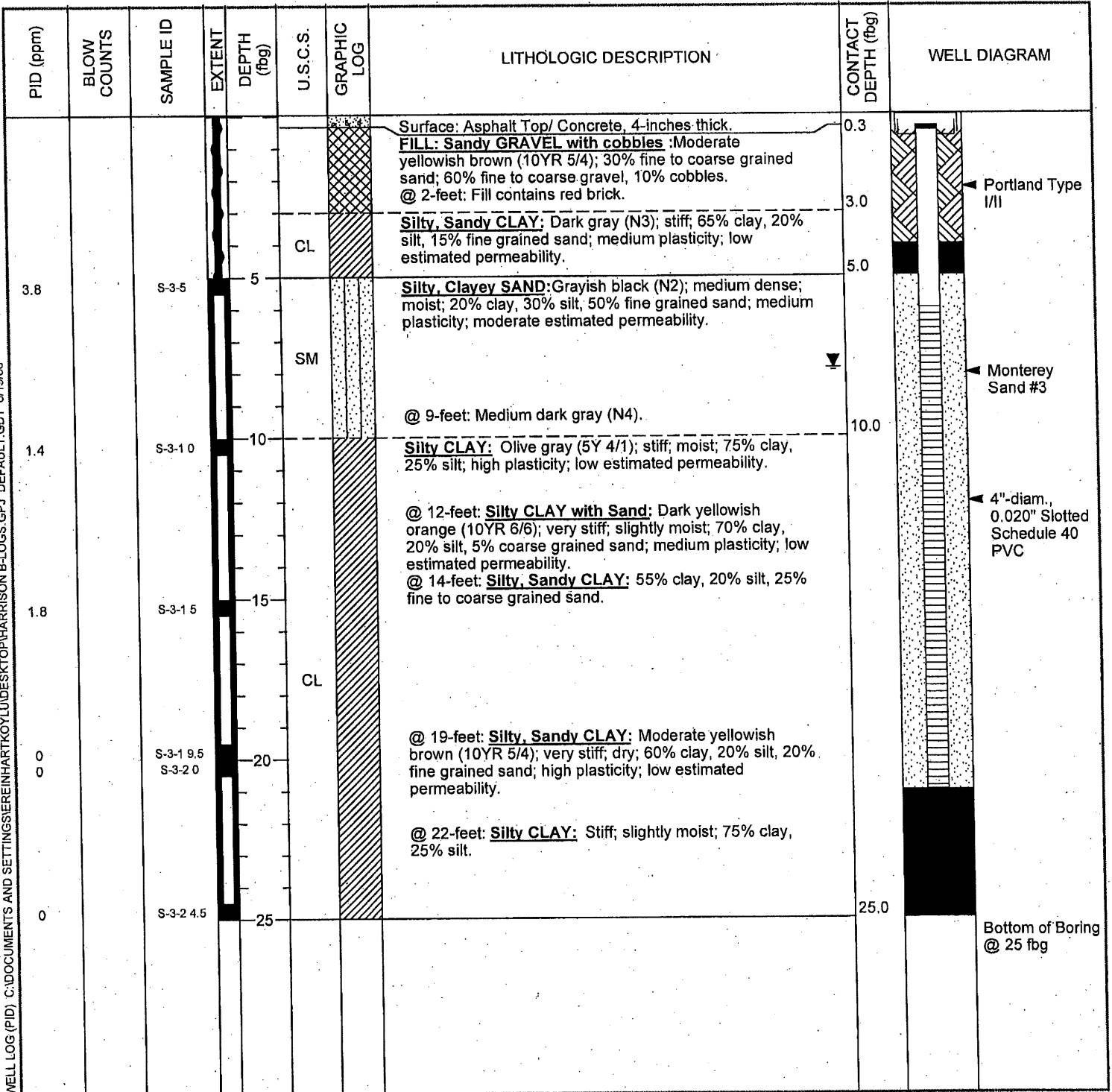
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 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

BORING/ WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	S-3
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	03-Jun-08
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	05-Jun-08
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	WDC Exploration	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	DP/HSA	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10-inch	SCREENED INTERVALS	6 to 21 fbg
LOGGED BY	E. Reinhart-Koylu	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	7.87 fbg (05-Jun-08)
REMARKS	Cleared to 5 fbg using Water Knife		



WELL LOG (PID) C:\DOCUMENTS AND SETTINGS\REINHARTKOYLU\DESKTOP\HARRISON B-LOGS.GPJ DEFAULT.GDT 6/19/08



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 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

BORING/ WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	S-4
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	02-Jun-08
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	04-Jun-08
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	WDC Exploration	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	DP/HSA	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10-inch	SCREENED INTERVALS	6 to 21 fbg
LOGGED BY	E. Reinhart-Koylu	DEPTH TO WATER (First Encountered)	19.0 fbg (04-Jun-08) ▽
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	13.11 fbg (05-Jun-08) ▽
REMARKS	Cleared to 5 fbg using Water Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
41.5		S-4-5	5	SM		Surface: Asphalt Top/ Concrete, 6-inches thick. FILL: Sandy GRAVEL with cobbles: Moderate yellowish brown (10YR 5/4); 5% silt, 25% fine to coarse grained sand, 60% fine to coarse gravel, 10% cobbles; non-plastic; high estimated permeability. @ 3-feet: FILL: Silty CLAY with Sand: Grayish black (N2); stiff; 70% clay, 20% silt, 10% fine grained sand; high plasticity; very low estimated permeability.	0.5	
0		S-4-10	10			Silty SAND: Grayish black (N2); loose; wet; 25% silt, 75% sand; non-plastic; moderate estimated permeability.	5.0	
0.1		S-4-15	15	CL		Silty CLAY: Grayish black (N2); soft; wet; 85% clay, 15% silt; high plasticity; low estimated permeability. @ 10-feet: Silty, Sandy CLAY: Olive gray (5Y 3/2); medium stiff; moist; 55% clay, 20% silt, 25% fine grained sand; high plasticity; moderate estimated permeability. @ 12-feet: Medium light gray (N6); 40% clay, 25% silt, 35% fine to medium grained sand. @ 13-feet: Angular coarse grained sand.	7.0	
0.2		S-4-19.5	19.5			@ 14-feet: Silty CLAY: Dark greenish gray (5GY 4/1); 65% clay, 35% silt; low estimated permeability. @ 15-feet: Mottled dark greenish gray and moderate yellowish brown (5GY 4/1 and 10YR 5/4); 75% clay, 25% silt.	▽	
0		S-4-20	20			@ 17-feet: Moderate yellowish brown (10YR 5/4) with grayish brown (5YR 3/2) specks (~1 mm in size); stiff; slightly moist; 80% clay, 20% silt. @ 19-feet: Wet.	▽	
0		S-4-20.5	20.5				21.0	Bottom of Boring @ 21 fbg

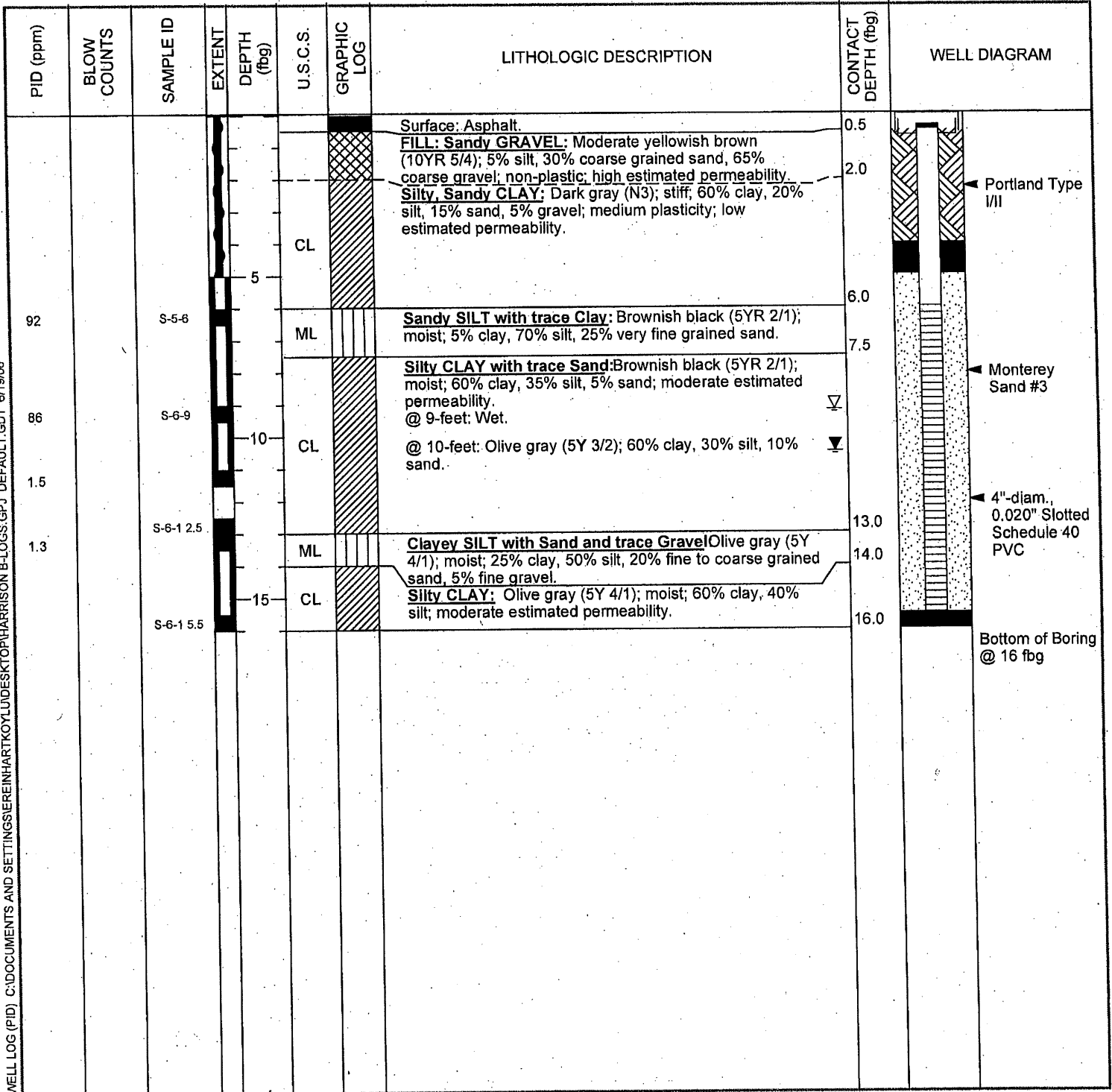
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 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

BORING/ WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	S-5
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	03-Jun-08
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	05-Jun-08
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	WDC Exploration	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	DP/HSA	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10-inch	SCREENED INTERVALS	6 to 15.5 fbg
LOGGED BY	E. Reinhart-Koylu/P. Schaefer	DEPTH TO WATER (First Encountered)	9.2 fbg (05-Jun-08) ▼
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	10.50 fbg (05-Jun-08) ▼
REMARKS	Cleared to 5 fbg using Water Knife		



WELL LOG (PID) C:\DOCUMENTS AND SETTINGS\EREINHART\KYOYL\DESKTOP\HARRISON B-LOGS.GPJ DEFAULT.GDT 6/19/08



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 Fax: 510-420-9170

BORING/ WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	S-6
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	05-Jun-08
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	05-Jun-08
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	WDC Exploration	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	DP/HSA	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10-inch	SCREENED INTERVALS	6 to 15.5 fbg
LOGGED BY	E. Reinhart-Koylu/P. Schaefer	DEPTH TO WATER (First Encountered)	8.8 fbg (05-Jun-08) ▼
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	7.32 fbg (05-Jun-08) ▼
REMARKS	Cleared to 5 fbg using Water Knife		

WELL LOG (PID) C:\DOCUMENTS AND SETTINGS\EREIN\HARTKOY\LUDESKTOP\HARRISON B-LOGS.GPJ DEFAULT.GDT 6/19/08

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
			0.5			Surface: Asphalt Top/ Concrete, 6-inches thick.	0.5	
			3.0			FILL: Sandy GRAVEL with Cobbles: Moderate yellowish brown (10YR 5/4); stiff; 5% silt, 20% sand, 60% angular gravel, 15% cobbles; non-plastic; high estimated permeability.	3.0	
			5.0	CL		Silty, Sandy CLAY: Dark gray (N3); stiff; 65% clay, 20% silt, 15% fine grained sand; medium plasticity; low estimated permeability.	5.0	
1		S-6-6	5.0			SAND with trace Silt: Greenish black (5GY 2/1); wet; 10% silt, 90% fine to medium grained sand.	7.32	
1		S-6-7.5	5.0	SM			8.8	
0			10.0			Silty CLAY with trace Sand: Dark greenish gray (5GY 4/1); wet; 60% clay, 30% silt, 10% sand; medium plasticity; moderate estimated permeability.	10.0	
0			15.0	CL		@ 12-feet: Dark yellowish orange (10YR 6/6); moist; 70% clay, 20% silt, 10% sand.	16.0	



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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	18-May-09
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	18-May-09
PROJECT NUMBER	060119	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	6"	SCREENED INTERVALS	4.42 to 4.5 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
27.4				0.3			ASPHALT Sandy SILT with gravel (ML) ; dark yellowish brown (10YR 4/6); moist; 50% silt, 30% fine to coarse sand, 20% coarse gravel; low to medium plasticity; fill.	0.3	<ul style="list-style-type: none"> Flush-grade 5" well box 1/4" teflon sample tubing Portland Type I/II Bentonite Seal Monterey Sand #2/12 1/4" diam. HDPE screen Bottom of Boring @ 5 fbg
				3.0	ML		@ 2' - 60% silt, 30% fine to coarse sand, 10% coarse gravel.	3.0	
				5.0	CL		CLAY (CL) ; black (2.5Y 2.5/1); moist; 95% clay, 5% silt; high plasticity.	5.0	

WELL LOG (PID) I:\SHELL\6-CHARS\0601-060119-OAKLAND\2350 (2368) HARRISON ST\060119-GINT\060119-GINT.GPJ DEFAULT.GDT 6/17/09



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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	21-May-09
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	21-May-09
PROJECT NUMBER	060119	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	6"	SCREENED INTERVALS	4.42 to 4.5 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
27.4				0.3	ML		ASPHALT Sandy SILT with gravel (ML) ; dark yellowish brown (10YR 4/6); moist; 50% silt, 30% fine to coarse sand, 20% coarse gravel; medium plasticity.	0.3	<ul style="list-style-type: none"> Flush-grade 6" well box 1/4" teflon sample tubing Portland Type I/II Bentonite Seal Monterey Sand #2/12 1/4" diam. HDPE screen Bottom of Boring @ 5 fbg
				4.0	CL		CLAY (CL) ; black (2.5Y 2.5/1); moist; 95% clay, 5% silt; high plasticity.	4.0	
				5				5.0	

WELL LOG (PID) (SHELL)6-CHARS0601-060119-OAKLAND 2350 (2368) HARRISON ST060119-GINT060119-GINT.GPJ DEFAULT.GDT 6/17/09



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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	19-May-09
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	19-May-09
PROJECT NUMBER	060119	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	6"	SCREENED INTERVALS	4.42 to 4.5 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
27.4					ML		ASPHALT Sandy SILT with gravel (ML) ; dark yellowish brown (10YR 4/6); moist; 50% silt, 30% fine to coarse sand, 20% coarse gravel; low to medium plasticity; fill. @ 2' - 65% silt, 35% fine to coarse sand.	0.3	<ul style="list-style-type: none"> Flush-grade 5" well box 1/4" teflon sample tubing Portland Type I/II Bentonite Seal Monterey Sand #2/12 1/4" diam. HDPE screen Bottom of Boring @ 5 fbg
					SW		SAND (SW) ; dark gray (2.5Y 4/1); moist; 5% silt; 95% fine to medium sand.	3.5	
				5				5.0	

WELL LOG (PID) I:\SHELL\6-CHARS\0601-060119-OAKLAND 2350 (2368) HARRISON ST\060119-GINT\060119-GINT.GPJ DEFAULT.GDT 6/17/09



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SVP-2a
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	26-Feb-10
LOCATION	2350 (2368) Harrison Street, Oakland, CA	DRILLING COMPLETED	26-Feb-10
PROJECT NUMBER	060119	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	1.75 to 1.85 fbg
LOGGED BY	E. Swan	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS	Air knifed to 2 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					ML		ASPHALT Sandy SILT with gravel (ML) ; dark yellowish brown (10YR 4/6); moist; 50% silt, 30% fine to coarse sand, 20% coarse gravel; low to medium plasticity; fill.	0.3	<ul style="list-style-type: none"> ▲ Flush-grade 6" well box ▲ Portland Type I/II ▲ 1/4" OD Teflon Tubing ▲ Bentonite Seal ▲ Monterey Sand ▲ Vapor Probe Screen <p>Bottom of Boring @ 2 fbg</p>
								2.0	

WELL LOG (PID) I:\SHELL\6-CHARS\0601-1060119-GINT.GPJ DEFAULT.GDT 4/7/10