CONESTOGA-ROVERS & ASSOCIATES

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

TRANSMITTAL

DATE: November 1, 2011

REFERENCE NO.: 060204

PROJECT NAME: 2301-2307 Lincoln Avenue, Alameda

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

RECEIVED
9:57 am, Nov 03, 2011
Alameda County
Environmental Health

Please find enclosed:
- ☐ Draft
- ☐ Originals
- ☐ Prints
- ☒ Final
- ☐ Other

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- ☐ Mail
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- ☐ Same Day Courier
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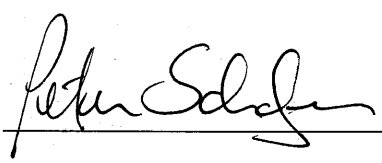
QUANTITY	DESCRIPTION
1	Monitoring Well and Soil Vapor Probe Destruction Work Plan

- ☐ As Requested
- ☐ For Your Use
- ☒ For Review and Comment
- ☐
- ☐

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)
Alan A. and Beverly M. Sebanc, Trustees, 2805 Ralston Avenue, Hillsborough, CA 94010
Jake Torrens, AMEC Geomatrix, Inc., 2101 Webster Street, 12th Floor, Oakland, CA 94612

Completed by: Peter Schaefer Signed: 

Filing: **Correspondence File**

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

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

Subject: 2301-2307 Lincoln Avenue
Alameda, California
SAP Code 165255
Incident No. 97767044
Agency No. RO0002971

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.

As always, please feel free to contact me directly at (707) 865-0251 with any questions or concerns.

Sincerely,

Denis L. Brown
Senior Program Manager

MONITORING WELL AND SOIL VAPOR PROBE DESTRUCTION WORK PLAN

FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

SAP CODE 165255
INCIDENT NO. 97767044
AGENCY NO. RO0002971

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

NOVEMBER 1, 2011
REF. NO. 060204 (21)
This report is printed on recycled paper.

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(Following Text)

LIST OF APPENDICES

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 and vapor probe destructions are required for final case closure per Alameda County Environmental Health's (ACEH's) October 27, 2011 letter.

The site is a former Shell service station located at the northeastern corner of Lincoln Avenue and Oak Street in Alameda, California (Figure 1). The area surrounding the site is mixed commercial and residential. The current site layout (Figure 2) includes a parking lot and commercial building housing a convenience store, a cleaners (not a dry cleaner), and a laundromat. The former service station layout included a station building, two dispenser islands, and seven fuel underground storage tanks (USTs). According to the Alameda Fire Department, the seven USTs were removed from the site in June 1982.

2.0 WORK TASKS

2.1 PERMIT

CRA will obtain an appropriate drilling 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 proposed drilling locations, and the locations will be cleared through Underground Service Alert and a private line locator prior to drilling.

2.4 MONITORING WELL DESTRUCTION

CRA proposes to properly destroy eight monitoring wells (MW-1 through MW-3 and MW-5 through MW-9). The wells will be destroyed by backfilling with neat cement

under pressure (pressure grouting). The well vaults will be removed, and the surface pavement patched with concrete to match the surrounding grade. CRA includes the well logs in Appendix A. The proposed scope of work will be performed under the supervision of a professional geologist or engineer.

2.5 SOIL VAPOR PROBE DESTRUCTION

CRA proposes to properly destroy seven soil vapor probes (SVP-1 through SVP-4 and SVP-6 through SVP-8). The soil vapor probes will be destroyed by over-drilling using an air-/water-knife drill rig and backfilling with neat cement. The probe vaults will be removed, and the surface pavement patched with concrete to match the surrounding grade. CRA includes the well logs in Appendix A. The proposed scope of work will be performed under the supervision of a professional geologist or engineer.

2.6 REPORT PREPARATION

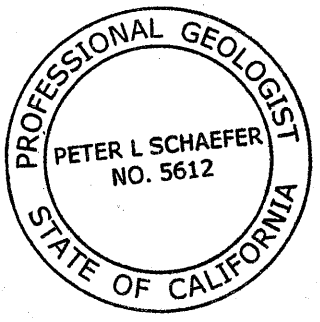
Following completion of the well destructions, CRA will submit a brief report documenting the activities.

3.0 SCHEDULE

CRA will implement the well destructions upon approval of this work plan by ACEH and receipt of appropriate permits. The work is tentatively scheduled for November 2011.

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

Peter Schaefer, CEG, CHG



Eric Syrstad, PG

FIGURES

12/10/2010

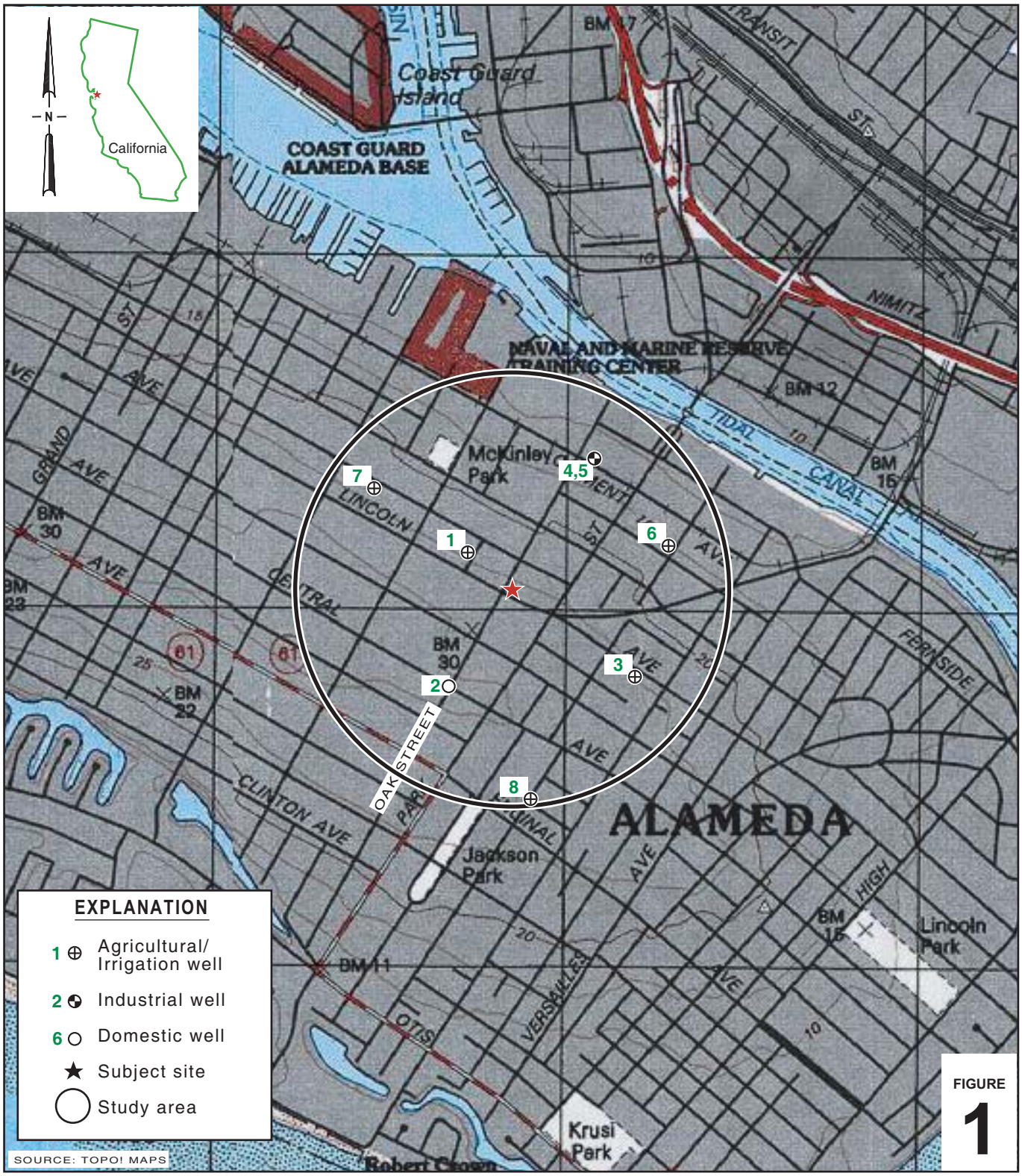


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FIGURE 1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Former Shell Service Station

2301-2307 Lincoln Avenue

Alameda, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

11/01/2011

Site Plan

EXPLANATION

- MW-1 — Monitoring well location, proposed for destruction
- SVP-1 — Soil vapor probe location, proposed for destruction
- 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
- B-6 — Soil boring location (CRA, 7/10)
- B-5 — Geoprobe boring location (CRA, 2/09)
- EB-1 — Soil boring location (Geomatrix, 8/07)
- SB-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

OAK STREET

LINCOLN AVENUE

Approximate Property Line

Former 76 Station
2267 Lincoln Avenue

Former Shell Station
2301-2307 Lincoln Avenue

Former Building (circa 1950)[1]

7-11 Store Building

Former Tire Recapping Facility (circa 1950)[1]

Former Gasoline & Oil USTs (installed in 1920s)

Former Oil Sump (circa 1982)[2]

Former Station Building (circa 1982)[2]

Former Dispensers (circa 1982)[2]

Former Dispensers (circa 1982)[2]

Lead Excavation

Petroleum Hydrocarbon Excavation

Former USTs (installed in 1970s)

Laundorland Building

Commercial Building

Sidewalk

Planter

Parking

Overhang

SB-1 SB-2 SB-3 SB-4 SB-5 SB-6 B-7 B-8

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9

SVP-1 SVP-2 SVP-3 SVP-4 SVP-5 SVP-5A SVP-6 SVP-7 SVP-8 SVP-9

B-5 B-6

EB-1 EB-2 EB-3 EB-4 EB-5 EB-6 EB-8 EB-9 EB-10 EB-11

PB-N PB-W PB-C PB-S PB-E

COMP-1 COMP-2

HC-W HC-W(7) HC-N HC-CN HC-E HC-SW HC-S HC-CS

N

0 10 20 40

Scale (ft)

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

I:\Shell\6-chars\0602--\060204-Alameda 2301-2307 Lincoln Ave\060204 FIGURES\060204 SITE PLAN.DWG

CONESTOGA-ROVERS & ASSOCIATES

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

FIGURE
2

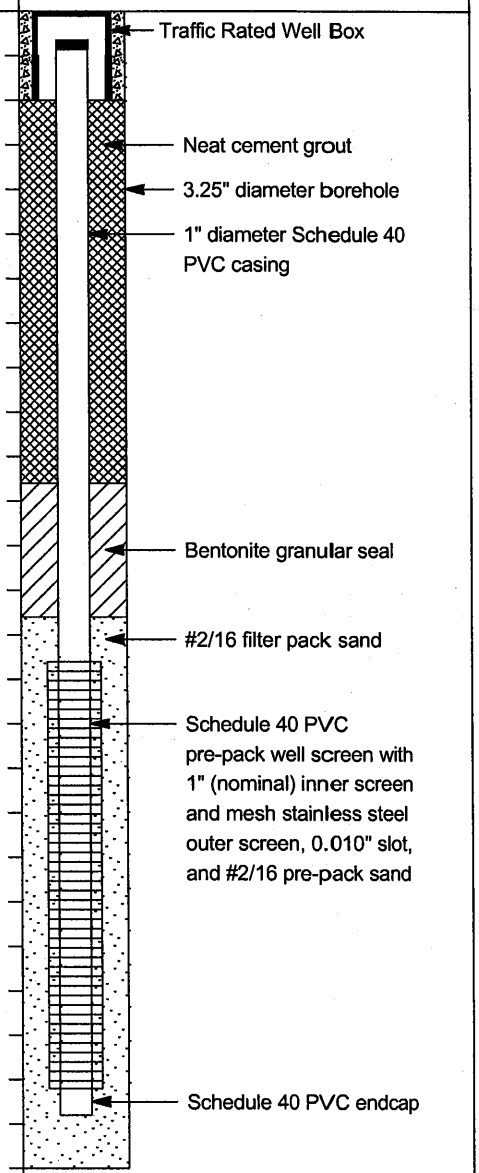
APPENDIX A

WELL LOGS

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.): FIRST 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

DEPTH (feet)	SAMPLES Sample No.	Sample	Blows/ Foot	OVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.
					Surface Elevation: 28.96' MSL
0					SANDY SILT (ML): very dark brown (10YR 2/2), moist, 60% fines, 40% fine sand, nonplastic, very soft
1					POORLY GRADED SAND with GRAVEL (SP): dark brown (10YR 3/3), moist, 60% fine sand, 25% fine gravel, 5% fines
2					POORLY GRADED SAND (SP): dark brown (10YR 3/3), moist, 95% fine sand, 5% fines
3	MW-1-3.0				
4					
5					CLAYEY SAND (SC): dark yellowish brown (10YR 3/4), moist, 65% fine sand, 35% low plasticity fines
5	MW-1-5.5			0.7	POORLY GRADED SAND with SILT (SP-SM): dark yellowish brown (10YR 4/4), moist, 90% fine sand, 10% nonplastic fines
6				1.1	CLAYEY SAND (SC) very dark gray (10GY 2.5/)
7				23.2	
8	MW-1-8.5				
9				1804	
10				1800	wet
11				1872	
12	MW-1-12.0			82	
13				30.7	olive brown (2.5Y 4/3)
14				11.7	dark yellowish brown (10YR 4/4)
14	MW-1-14.5			1.3	
15				2.1	

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



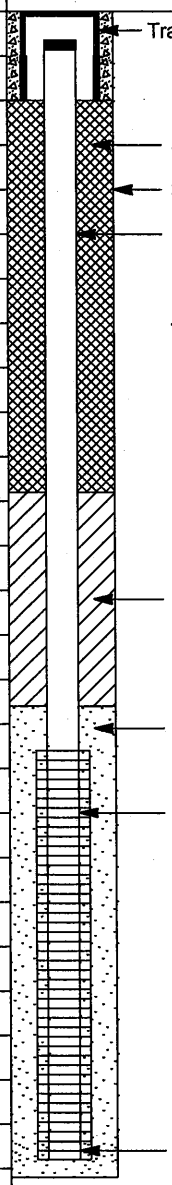
PROJECT: 2310-2307 LINCOLN AVENUE
Alameda, California

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

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	SAMPLES: Blows/ Foot	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
16				1.4	POORLY GRADED SAND with SILT (SP-SM): cont'd	Notes: 1. OVM = MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard. 2. Hand augered to 5 feet bgs. Lithologic descriptions are from cuttings. 3. Lithologic descriptions are from adjacent companion boring, located approximately 3' south of well MW-1. 4. Boring location coordinates based on the California Coordinate System NAD 83, Zone III.
17				1.4		
18		⊠		1	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 WATER (ft.): FIRST: 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

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	SAMPLES: Blows/ Foot	OVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.
					Surface Elevation: 29.39' MSL
0					ASPHALTIC CONCRETE: (4 inches thick)
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					POORLY GRADED SAND with SILT and GRAVEL (SP-SM): dark brown (10YR 3/3), moist, 60% fine to coarse sand, 30% fine to coarse gravel, 10% nonplastic fines, contains brick debris [FILL]
3				0	
4				0	
5				0	contains glass debris, bone and shell fragments, and wood debris
6					
7					
8					
9					
10					POORLY GRADED GRAVEL WITH CLAY AND SAND (GP-GC): wet
11					POORLY GRADED SAND (SP): brown (10YR 4/3), wet, 95% fine to coarse sand, 5% fines
12					
13					Bottom of boring at 13.0 feet
14					
15					



WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS

- Traffic Rated Well Box
- Neat cement grout
- 3.25" diameter borehole
- 1" diameter Schedule 40 PVC casing

Notes:
1. OVM = MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard.
2. Hand augered to 5 feet bgs. Lithologic descriptions are from cuttings.

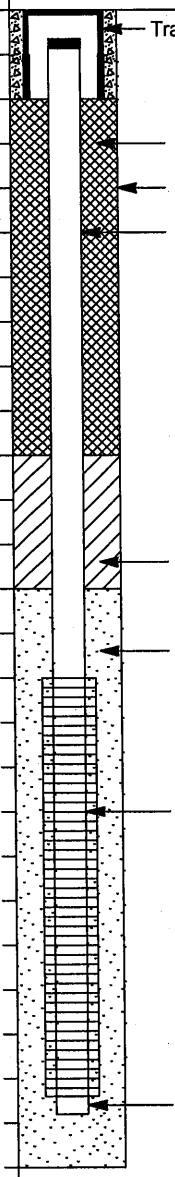
- Bentonite granular seal
- #2/16 filter pack sand
- Schedule 40 PVC pre-pack well screen with 1" (nominal) inner screen and mesh stainless steel outer screen, 0.010" slot, and #2/16 pre-pack sand
- Schedule 40 PVC endcap

OAKWELLV_PPACKTOC (REV. 9/2007)

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 WATER (ft.): FIRST 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

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	SAMPLES: Blows/ Foot	OVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.
					Surface Elevation: 29.09' MSL
0					ASPHALTIC CONCRETE: (4 inches thick)
1				0	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					POORLY GRADED SAND with SILT and GRAVEL (SP-SM): dark brown (10YR 3/3), moist, 60% fine to coarse sand, 30% fine to coarse gravel, 10% nonplastic fines [FILL]
3				0	
4					POORLY GRADED SAND (SP): dark yellowish brown (10YR 4/4), moist, 95% fine sand, 5% fines
5					
6				0	dark yellowish brown (10YR 3/4) CLAYEY SAND (SC)
7	MW-2-7.0			0	CLAYEY SAND (SC)
8					CLAYEY SAND (SC)
9					
10	MW-2-10.5			0	mottled dark yellowish brown (10YR 3/4) and brown (10YR 5/3) wet
11					
12				0	brown (10YR 5/3)
13				0	Bottom of boring at 13.1 feet
14					
15					

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



Notes:
1. OVM = MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard.
2. Hand augered to 5 feet bgs. Lithologic descriptions are from cuttings.

Conestoga-Rovers & Associates
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**	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		

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	Portland Type I/II
0.0							**Silty SAND (SM)**; very dark brown (7.5YR 2.5/3); dry; 25% silt, 75% fine to medium sand.		4" diam., Schedule 40 PVC
0.0		MW-5- 5'		5			@ 5' - strong brown (7.5YR 4/6); 30% silt, 70% fine to medium sand.		Bentonite Seal
0.0		MW-5- 8'					@ 8' - moist.		Monterey Sand #2/12
							@ 9- wet; 25% silt, 75% fine to medium sand.		
0.0				10	SM		@ 10' - brown (7.5YR 4/4); 30% silt, 70% fine sand.	▽	
0.0									
0.0									4"-diam., 0.020" Slotted Schedule 40 PVC
							@ 14' - yellowish brown (10YR 5/4);		
0.0				15					
0.0									
0.0									
				20				20.0	

WELL LOG (PID) I:\SHELL\6-CHARS\10602--1060204-\10648E9--1060204-GINT.GPJ DEFAULT.GDT 4/1/09

Continued Next Page

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

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

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					
0.0					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\6-CHARS\0602-\060204-\10648E9-\1060204-GINT.GPJ DEFAULT.GDT 4/1/09

Conestoga-Rovers & Associates
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**	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		

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									Portland Type I/II
									4" diam., Schedule 40 PVC
0.0		MW-6- 5'		5			@ 5' - yellowish brown (10YR 5/4).		Bentonite Seal
							@ 7' - moist.		Monterey Sand #2/12
0.0		MW-6- 8'							
0.0							@ 9' - wet. ▽		
0.0				10	SM		@ 10' - 20% silt, 80% fine to medium sand.		
0.0									4"-diam., 0.020" Slotted Schedule 40 PVC
0.0							@ 14' - 20% silt, 80% fine sand.		
0.0				15			@ 15' - 20% silt, 80% fine to medium sand.		
0.0									
0.0									
				20				20.0	

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, 75% 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.		Bentonite Seal
							@ 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

WELL LOG (PID) I:\SHELL\6-CHARS\0602--1060204--10648E9--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
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		

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	
0.0							**Silty SAND with gravel (SM)**; very dark brown (7.5YR 2.5/3); dry; 25% silt, 45% fine to medium sand, 30% gravel; fill with asphalt pieces.		Portland Type I/II
							@ 3' - **Silty SAND (SM)**; very dark brown (7.5YR 2.5/3); 25% silt, 65% fine to medium sand, 10% fine gravel.		4" diam., Schedule 40 PVC
0.0		MW-7- 5'		5			@ 5' - dark yellowish brown (10YR 4/4); 20% silt, 80% fine to medium sand.		Bentonite Seal
									Monterey Sand #2/12
0.0		MW-7- 8'					@ 8' - moist.		
0.0				10	SM		@ 10' - light olive brown (2.5Y 5/4); wet; 30% silt, 70% fine to medium sand. ▽		
0.0									4"-diam., 0.020" Slotted Schedule 40 PVC
0.0				15			@ 15' - 30% silt, 70% fine sand.		
0.0							@ 17' - dark yellowish brown (10YR 4/6); 20% silt, 80% fine to medium sand.		
0.0				20				20.0	

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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									
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

WELL LOG (PID) I:\SHELL\6-CHARS\0602--\060204--\0648E9--\060204-GINT.GPJ DEFAULT.GDT 4/1/09

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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		

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	Portland Type I/II
0.0							**Silty SAND (SM)**; very dark brown (7.5YR 2.5/3); dry; 25% silt, 65% fine to medium sand, 10% fine gravel.		4" diam., Schedule 40 PVC
0.0		MW-8- 5'		5			@ 5' - brown (10YR 4/3).		Bentonite Seal
							@ 6' - 30% silt, 70% fine sand.		
0.4							@ 7' - moist.		Monterey Sand #2/12
0.0		MW-8- 8'							
							@ 9'- wet. ▽		
0.0				10	SM		@ 10' - strong brown (7.5YR 5/6).		
0.0									4"-diam., 0.020" Slotted Schedule 40 PVC
1.3				15			@ 15' - 30% silt, 70% fine to medium sand.		
							@ 17' - brown (7.5YR 4/2).		
0.0				20				20.0	

WELL LOG (PID) I:\SHELL\6-CHARS\0602-\060204-\10648E9-\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-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 (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	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.		Bentonite Seal
							@ 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.		
		MW-8 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\6-CHARS\0602--\060204--\10648E9--\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-9
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	23-Mar-10
LOCATION	2301-2307 Lincoln Avenue, Alameda, CA	**DRILLING COMPLETED**	25-Mar-10
PROJECT NUMBER	060204	**WELL DEVELOPMENT DATE (YIELD)**	21-Apr-10 (72 gallons)
DRILLER	Gregg Drilling, C-57 #485165	**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)**	6.74 fbg ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)
							ASPHALT	0.3
							Silty SAND (SM); Brown (10YR 4/3); moist; 15% silt, 85% fine grained sand.	
				5			@ 5' - moist.	
0.3		MW-9- 5.5						
0.0		MW-9- 8.5			SM		@ 9' - wet.	
				10			@ 10' - Yellowish brown (10YR 5/4).	
0.3		MW-9- 12						
				15				
		MW-9- 17.5						18.0

WELL DIAGRAM: Portland Type I/II; Bentonite Seal; Monterey Sand #2/12; 4"-diam., 0.020" Slotted Schedule 40 PVC; Bottom of Boring @ 18 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--1060204--10648E9--10602004--1.GPJ DEFAULT.GDT 5/6/10

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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				5	SM		**ASPHALT** **Silty SAND (SM)**; very dark brown (7.5YR 2.5/3); dry; 25% silt, 75% fine to medium sand.	0.3 5.0	Portland Type I/II Bentonite Seal Monterey Sand #2/12 High Density Porous Polyethylene Soil Vapor Implant Bottom of Boring @ 5 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--1060204--1\0648E9~1\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-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**	4.9 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				5	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 5.0	Portland Type I/II Bentonite Seal Monterey Sand #2/12 High Density Porous Polyethylene Soil Vapor Implant Bottom of Boring @ 5 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--\060204--\10648E9--1\060204-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					SM		**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, asphalt pieces 1-3", garbage. @ 2' - **Silty SAND (SM)**; 25% silt, 65% fine to medium sand, 10% fine gravel.	0.3 5.0	Portland Type I/II Bentonite Seal Monterey Sand #2/12 High Density Porous Polyethylene Soil Vapor Implant Bottom of Boring @ 5 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--\060204-\10648E9~1\060204-GINT.GPJ DEFAULT.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 (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0				5	SM		**ASPHALT** **Silty SAND (SM)**; Very dark brown (7.5YR 2.5/3); dry; 25% silt, 65% fine to medium grained sand, 10% fine gravel.	0.3 5.0	Bentonite Seal Monterey Sand #2/12 1"-diam., 0.020" Slotted Schedule 40 PVC Bottom of Boring @ 5 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--\060204--\10648E9--\10060204-1.GPJ DEFAULT.GDT 5/6/10

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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 (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.3	Bentonite Seal; Monterey Sand #2/12 1"-diam., 0.020" Slotted Schedule 40 PVC
				5	SM		**Silty SAND (SM)**; Brown (10YR 4/3); dry; 15% silt, 85% fine sand.	5.1	Bottom of Boring @ 5.1 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--\060204-\10648E9--\060204-1.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	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 (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE	0.3	Bentonite Seal
					SM		**Silty SAND (SM)**; Very dark grayish brown (10YR 5/3); dry; 15% silt, 80% fine grained sand, 5% fine gravel.		Monterey Sand #2/12 1"-diam., 0.020" Slotted Schedule 40 PVC
				5				5.4	1"-diam., 0.020" Slotted Schedule 40 PVC Monterey Sand #2/12 Bottom of Boring @ 5.4 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--\060204--\10648E8--1\060204-1.GPJ DEFAULT.GDT 5/6/10

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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 (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				5	SM		**Silty SAND with Gravel (SM)**; Brown (10YR 4/3); dry; 20% silt, 60% fine grained sand, 20% fine gravel. **Silty SAND (SM)**; 15% silt, 85% fine sand.	5.4	Bentonite Seal Monterey Sand #2/12 1"-diam., 0.020" Slotted Schedule 40 PVC 1"-diam., 0.020" Slotted Schedule 40 PVC Monterey Sand #2/12 Bottom of Boring @ 5.4 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0602--1060204--1\0648E9--1\0602044-1.GPJ DEFAULT.GDT 5/6/10