# APPENDIX C Boring and Monitoring Well Logs

### Drilling Co./Driller: ESN / Scott Log of Exploratory Boring: Drilling Method: Direct Push No apparent aquitard penetrated, no evidence of multiple water-bearing zones. Location: Interior NE **Water Levels Moisture Content:** Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet Surface Condition: Concrete ▼ After Completion Total Depth: 20 Hydrocarbon Odor: NO = no odor, VFO = very faint odor □ During Drilling WO = weak odor, MO = moderate odor, SO = strong odor

First GW Depth:

4

1000		72 55 - C-00 C		8 WEE				,		
Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0 — 1 — 2 — 3 — 4 — 5 —		1.3	50		B01-1.5		FILL	Concrete Moist, silty fine- to coarse-grained SAND with gravel. Brown. No hydrocarbon odor. (Fill)  Moist, SILT with clay and trace gravel and organics (roots). Brown to gray. No hydrocarbon odor.  Moist, SILT with clay. Fine- to medium-grained sand lens near 8 bgs'. Gray. No hydrocarbon odor.	/ - Mst 	
6 — 7 — 8 —		. 1.2	50		B01-06 B01-07		9.		Mst	70
10 = 11 =		1.1	100		B01-10		ML	Moist, SILT with clay. Brown to gray. No hydrocarbon odor.	Mst	# E
12 — 13 — 14 — 15 —		1.0	100		B01-13			Wet, SILT with clay. "Soupy". No hydrocarbon odor.	Wet	
16 — 17 — 18 —		1.2	100		B01-16			Wet, SILT. Gray. No hydrocarbon odor.	Wet	
19		1.0			B01-20		SM	Wet, silty fine SAND. Gray. No hydrocarbon odor.		
21 —				v	3			Boring terminated at 20' bgs with water samples taken from a temporary well screened from 11' to 16' bgs. Backfilled with bentonite.		
23 — 24 — 25 —					8		7	DRAFT	=	-



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA

Date Started: 5/15/2008 Date Finished: 5/15/2008 Logged By: DMB Chk By: TSB

SES Project No.: 0566-001-03 File ID.: POSOFO-TIECHNI-1GNILO-12008\_R0500

**BORING LOG** 

#### Drilling Co./Driller: ESN / Scott Log of Exploratory Boring: Direct Push Drilling Method: No apparent aquitard penetrated, no evidence of multiple water-bearing zones. Location: Interior North Central **Water Levels Moisture Content:** Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet Surface Condition: Concrete ▼ After Completion 20 Hydrocarbon Odor: NO = no odor, VFO = very faint odor Total Depth: □ During Drilling 4 WO = weak odor, MO = moderate odor, SO = strong odor First GW Depth:

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0 — 1 — 2 —		0.7	50		B02-1.5		FILL	Concrete Moist, silty fine- to coarse-grained SAND with gravel. Brown. No hydrocarbon odor. (Fill)  Moist, SILT with clay, trace gravel, and organics (roots). Brown to	Mst	
3 — 4 — 5 —		1.5			B02-04			gray. No hydrocarbon odor.  Moist, SILT with clay. Gray. No hydrocarbon odor.	Δ	
6 — 7 — 8 —		1.7	75	30-03	B02-07		ML		Mst	
9 — 10 —		3.8	75		B02-10			Moist, SILT with clay. Wood chips from 11' to 11.25'. Dark brown to gray. No hydrocarbon odor.	Mst	
11 —		1.6			B02-12			Moist, SILT with gravel. Gray. No hydrocarbon odor.  Wet, sandy SILT, fine-grained sand, grading into silty sand. Gray. No hydrocarbon odor.		
14 — 15 — 16 —		1.7	100	3740	B01-15		SM- ML		Wet	
17 — 18 — 19 —	-	SEE 484.0	100		D00.00		SM	Wet, sandy SILT grading to silty sand. "Soupy". No hydrocarbon odor.  Wet, silty SAND, fine-grained sand. Gray. No hydrocarbon odor.	Wet	
20		1.2			B02-20	111	ML	Wet, sandy SILT, fine-grained sand. Gray. No hydrocarbon odor.  Boring terminated at 20' bgs with water samples taken from a temporary well screened from 15' to 20' bgs. Backfilled with bentonite.		
22 — 23 — 24 —					2	*		DRAFT		
25 —								Date Started: 5/15/2008		



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA Date Started: 5/15/2008 Date Finished: 5/15/2008 Logged By: DMB

Chk By: TSB
SES Project No.: 0566-001-03
File ID.: Prococro-nicched-ngnito-1208\_R0000

BORING LOG B02

### Drilling Co./Driller: ESN / Scott Log of Exploratory Boring: **Drilling Method:** Direct Push No apparent aquitard penetrated, no evidence of multiple water-bearing zones. Location: Interior NW **Water Levels Moisture Content:** Surface Condition: Concrete Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet ▼ After Completion Total Depth: 20 Hydrocarbon Odor: NO = no odor, VFO = very faint odor □ During Drilling

First GW Depth:

3

WO = weak odor, MO = moderate odor, SO = strong odor

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0 — 1 — 2 — 3 — 4 —		1.9			B03-03		FILL	Concrete.  Moist, sandy SILT, fine-grained sand, with gravel. Brown. No hydrocarbon odor. (Fill)  Moist, SILT with clay. Gray. No hydrocarbon odor.  Moist, SILT with clay. No hydrocarbon odor.	Mst ∑	p
5 — 6 — 7 —		2.1			B03-06		ML		Mst	1
8 -   10 -   11 -		1.2			B03-09			Moist, SILT with clay. No hydrocarbon odor.	Mst	
12 — 13 — 14 — 15 —		1.4			B03-14		SM- ML	Moist, SILT with clay and gravel. No hydrocarbon odor.  Moist, SILT. Gray. No hydrocarbon odor.  Wet, silty SAND, fine-grained sand, grading to sandy silt. Gray. No hydrocarbon odor.	Wet	
16 — 17 — 18 — 19 —		1.4			B03-16		SM SP- SM	Wet, silty fine SAND. Gray. No hydrocarbon odor.  Wet, fine SAND with silt. Gray. No hydrocarbon odor.	Wet	
21 22 23 24 25			14	5				Boring terminated at 20' bgs with water samples taken from a temporary well screened from 15' to 20' bgs. Backfilled with bentonite.		



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SES Project No.: 0566-001-03 File ID.: P05050-11ECHNI-13NILO-12008\_R10500 BORING LOG B03

### Drilling Co./Driller: ESN / Scott Log of Exploratory Boring: Drilling Method: **Direct Push** Notes 19.6' S of North wall of building and 11.3' W west wall of building Location: **Moisture Content: Water Levels** Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet Surface Condition: Concrete ▼ After Completion Total Depth: 20 Hydrocarbon Odor: NO = no odor, VFO = very faint odor ☑ During Drilling WO = weak odor, MO = moderate odor, SO = strong odor First GW Depth: 4

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0 — 1 — 2 — 3 — 4 — 5 —		0.2	60		B04-03		FILL	Concrete Moist, fine- to coarse-grained SAND with gravel and trace silt. Brown. No hydrocarbon odor. (Fill)  Moist, SILT with clay and fine-grained sand. Brown to gray. No hydrocarbon odor.  Moist, SILT with clay and fine-grained sand. Gray. No hydrocarbon odor.	/ - Mst <u>∇</u>	
6 — 7 — 8 — 9 —		1.1	80		B04-07		ML	Moist, SILT with clay and gravel, trace organics (roots). Brown. No hydrocarbon odor.  Moist, sandy SILT, fine-grained sand, with trace gravel. Gray. No hydrocarbon odor.  Moist, SILT with clay and trace fine-grained sand. Gray with brown mottling. No hydrocarbon odor.	Mst	× (
10 — 11 — 12 — 13 —		0.0	80		B04-11			Moist, sandy SILT, fine-grained sand. Gray-brown. No hydrocarbon odor.  No recovery.	Mst	9
14 — 15 — 16 — 17 — 18 — 19 —		ı	30				SM	Wet, silty SAND, fine-grained sand. Gray. No hydrocarbon odor.	Wet	
20		1.6			B04-20			Boring terminated at 20' bgs and backfilled with bentonite.		
25 —		LIND						Date Started: 7/9/2008		



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File ID.: Prodest on the Production of the

BORING LOG B04

#### Drilling Co./Driller: ESN / Scott Log of Exploratory Boring: Drilling Method: **Direct Push** Notes Location: 9.4' W of sidewalk and 10.7' N of N wall of building Water Levels **Moisture Content:** Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet Surface Condition: Asphalt ▼ After Completion Total Depth: 16 Hydrocarbon Odor: NO = no odor, VFO = very faint odor □ During Drilling WO = weak odor, MO = moderate odor, SO = strong odor 12

First GW Depth:

Depth (feet)	Blow Count	. OIA	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
1 — 2 — 3		7.4	50		B05-03		FILL	Asphalt.  Moist, fine- to coarse-grained SAND, with gravel, trace silt. Brown. No hydrocarbon odor. (Fill)  Moist, SILT with clay. Brown. No hydrocarbon odor.	- Mst	
4 — 5 — 6 —		10.4	75					Moist, sandy SILT, fine-grained sand. Gray. No hydrocarbon odor.	Mst	
8 — 9 —		1.4			B05-07		ML	Moist to wet sandy SILT. Gray. No hydrocarbon odor.		
10 — 11 — 12 —		2.0	80		B05-11			Wet, silty SAND, fine-grained sand, grading to sandy silt. Gray. No hydrocarbon odor.	Mst <u>∇</u>	
13 — 14 — 15 —		0.9 0.5	80		B05-14.5		SM	nydrocarbon odor.	Wet	,
17 — 18 — 19 —								Boring terminated at 16' bgs with water samples taken from a temporary well screened from 8' to 11' bgs. Backfilled with bentonite.		
20 —					1			Data Startadi: 7/0/2009		



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA

Date Started: 7/9/2008 Date Finished: 7/9/2008 Logged By: DMB Chk By: TSB

SES Project No.: 0566-001-03 File ID.: Prosocro-intechni-ignitio-12003\_Prosocro

**BORING LOG** B05

Log of Exploratory Boring:		Drilling Co	./Driller:	ESN / Scott
Notes		Drilling Me	thod:	Direct Push
,		Location:	14.7' W of wall of buil	sidewalk and24.6' N of N ding
Moisture Content:	Water Levels			
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet	▼ After Completion	Surface Co	ondition:	Asphalt
Hydrocarbon Odor: NO = no odor, VFO = very faint odor	✓ During Drilling	Total Dept	h:	16
WO = weak odor, MO = moderate odor, SO = strong odor	- Z. During Drilling	First GW D	epth:	5

Depth (feet)	Blow Count	DIO	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
1 — 2 — 3 —		2.4	75		B06-03		FILL	Asphalt. Moist, fine- to coarse-grained SAND with gravel and trace silt. Brown. No hydrocarbon odor.	Mst	
5 — 6 —		1.0	50				ML	Moist, sandy SILT, fine-grained sand, with gravel. Gray. No hydrocarbon odor.  Moist, SILT with clay and trace sand, gravel, and organics (roots). Brown to gray. No hydrocarbon odor.	<u>∑</u> Mst	
8 — 9 —		1.0			B06-07		SM	Moist, silty SAND, fine-grained sand. Gray. No hydrocarbon odor.  Moist, sandy SILT, fine-grained sand, grading into silty sand at 14'. Brown to gray. No hydrocarbon odor.		
10 —		0.9	80	770-417 TO	B06-11		SM- ML		Mst	
13 — 13 — 14 — 15 —		0.2	30		B06-16		SM	Wet, silty SAND, fine-grained sand. Gray. No hydrocarbon odor.	Wet	
16 17 — 18 —								Boring terminated at 16' bgs with water samples taken from a temporary well screened from 5' to 8' bgs. Backfilled with bentonite.		
19 —						4		DRAFT		



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA

Date Started: 7/9/2008
Date Finished: 7/9/2008
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SES Project No.: 0566-001-03
File ID.: POSSED-LITECHA-LIANTIO-10006\_FICESED.

BORING LOG B06

### Drilling Co./Driller: ESN / Scott Log of Exploratory Boring: Drilling Method: Direct Push Notes 15.2' W of sidewalk and 7.9' S of North wall of building Location: Water Levels **Moisture Content:** Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet Surface Condition: Asphalt ▼ After Completion Total Depth: 16 Hydrocarbon Odor: NO = no odor, VFO = very faint odor □ During Drilling WO = weak odor, MO = moderate odor, SO = strong odor First GW Depth:

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
1 —		ec.	70				FILL	Asphalt.  Moist, fine- to coarse-grained SAND with gravel and trace silt. Brown.  No hydrocarbon odor. (Fill)	Mst	
3 —		2.7	70		B07-03		ML	Moist, SILT with clay and trace fine-grained sand. Brown. No hydrocarbon odor.	IVIST	
5 —		0.0	80		-		SM-	Moist to wet, sandy SILT, fine-grained sand, grading into silty sand at 7'.	∑ Mst	
7 -		0.0			B07-07		ML			
9 —		1.0	100				ML	Moist, sandy SILT, fine-grained sand. Brown to gray. No hydrocarbon odor.	Mst	
11 —		1.4			B07-11	)				ı
13 — 14 —			30				SM	Wet, silty SAND, fine-grained sand. Gray. No hydrocarbon odor.	Wet	
15 — 16		0.6			B07-16					
17 —					-			Boring terminated at 16' bgs with water samples taken from a temporary well screened from 5' to 8' bgs. Backfilled with bentonite.		
19 —								DRAFT		
20 —								Date Started: 7/9/2008		



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA Date Started: 7/9/2008 Date Finished: 7/9/2008 Logged By: DMB Chk By: TSB

SES Project No.: 0566-001-03
File ID.: PROSOFO-INTEGRIPA-NGANTLO-12003\_RESSOUR

BORING LOG B07

### Log of Exploratory Boring: Drilling Co./Driller: ESN / Scott Drilling Method: Direct Push <u>Notes</u> $6.2^{\prime}$ W of sidewalk and 22.6' S of N wall of building Location: **Moisture Content:** Water Levels Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet Surface Condition: Asphalt ▼ After Completion Hydrocarbon Odor: NO = no odor, VFO = very faint odor Total Depth: 16 □ During Drilling WO = weak odor, MO = moderate odor, SO = strong odor First GW Depth: 5

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
1 — 1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10 — 11 — 12 — 13 — 14 — 15 — 16 — 17 — 18 — 17 — 18 — 17 — 18 — 18 — 17 — 18 — 18	Blow	1.3 0.9 0.3	50 80 100 25		B08-03 B08-07 B08-10.5		ML SM ML	Asphalt Moist, fine- to coarse-grained SAND with gravel and silt. Brown. No hydrocarbon odor. (Fill).  Moist, SILT with clay and trace fine sand. Brown.  Moist, SILT with fine-grained sand. Brown to Gray. No hydrocarbon odor.  Silty fine SAND.  Moist, SILT with fine-grained sand. Brown to Gray. No hydrocarbon odor.  Moist, SILT with fine-grained sand and clay. Brown to gray.  3" layer of silty SAND, fine-grained sand.  Moist, SILT with fine-grained sand and clay. Brown to gray.  Wet, SILT with sand. Gray. No hydrocarbon odor.  Boring terminated at 16' bgs with water samples taken from a temporary well screened from 5' to 8' bgs. Backfilled with bentonite.	Hst Wet	
19 —								DRAFT  Date Started: 7/9/2008		



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA

Date Started: 7/9/2008 Date Finished: 7/9/2008 Logged By: DMB Chk By: TSB SES Project No.: 0566-001-03

File ID.: PXSSOFO-1/TECHNI-I/GNTLO-1/2008\_RI

**BORING LOG** B08

### Drilling Co./Driller: Log of Exploratory Boring: ESN / Scott **Drilling Method: Direct Push Notes** 18.9' W of W wal of building and 38.2'N of S wall of building Location: **Moisture Content:** Water Levels Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet Surface Condition: Asphalt ▼ After Completion Total Depth: 16 Hydrocarbon Odor: NO = no odor, VFO = very faint odor □ During Drilling WO = weak odor, MO = moderate odor, SO = strong odor First GW Depth: 6

-	_							· ·		
Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 9		0.8	50		B09-03		FILL	Asphalt  Moist, fine- to medium-grained SAND with gravel and trace silt. Brown. No hydrocarbon odor.  Moist, SILT with trace clay and few gravels and sand. Gray. No hydrocarbon odor.  Moist, SILT with some clay, grading to silt with some clay and sand at 6'. Brown to gray. No hydrocarbon odor.  Wet, SILT with clay and trace sand. Gray. No hydrocarbon odor.	Ϋ́	
10 —		0.5	60		B09-11					
12 — 13 — 14 —		0.2	100		B09-13		20	Wet, SILT with fine-grained sand. Gray. No hydrocarbon odor.		
15 —		0.5			B09-16	Щ		Roring terminated at 16' has and water camples taken from a		
17 — 18 — 19 — 20 —								Boring terminated at 16' bgs and water samples taken from a temporary well screened from 6' to 9' bgs. Backfilled with bentonite.		. * ·
Resemble of	12.00							Data Started: 7/0/2009		



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA Date Started: 7/9/2008 Date Finished: 7/9/2008 Logged By: DMB Chk By: TSB

SES Project No.: 0566-001-03 File ID.: P0500F0-17ECHN-1/GNTL0-1/2008\_E/05000 BORING LOG B09

#### Drilling Co./Driller: ESN / Scott Log of Exploratory Boring: Drilling Method: **Direct Push** Upper soils very soft. Took two attempts to retrieve soil from 0-4'. Location: 1' W of W wall of building and 8.9' N of N wall of building Water Levels **Moisture Content:** Surface Condition: Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet Gravel ▼ After Completion Total Depth: 16 Hydrocarbon Odor: NO = no odor, VFO = very faint odor ☑ During Drilling 1 WO = weak odor, MO = moderate odor, SO = strong odor First GW Depth:

Depth (feet)	Blow Count	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
1	0.4	25		B10-02		FILL	Wet, SILT with clay and some gravel. Gray. No hydrocarbon odor. (Fill)	<u>∇</u> Wet	
5 — 5 — 6 — 7 — 8 —	1.5	66		B10-05			Wet to moist, SILT with clay, trace gravel and organics (roots). Gray to brown. No hydrocarbon odor. (Fill)	Wet	
9 — 10 — 11 — 12 —	0.3	75		B10-08		SM-	Moist, sandy SILT, fine-grained sand. Gray. No hydrocarbon odor.	Mst	
13 —	0.3	75		B10-14.5		ML	Wet, sandy SILT, fine-grained sand, grading into silty sand.	Wet	11
17 — 18 — 19 — 20 —	,			-		v	Boring terminated at 16' bgs with water samples taken from a temporary well screened from 1.5' to 4.5' bgs. Backfilled with bentonite.		



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA Date Started: 7/10/2008 Date Finished: 7/10/2008 Logged By: DMB Chk By: TSB

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File ID.: PROSSES - RTECHNI-15 NTLO-12008\_RIGOSO

BORING LOG B10

### Log of Exploratory Boring:

Notes
Poor recovery 0-4' during three attempts.

Drilling Co./Driller: ESN / Scott Drilling Method: **Direct Push** 

16.6' W of W wall of building and Location: 9.6' N of N wall of building

### **Moisture Content:** Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor WO = weak odor, MO = moderate odor, SO = strong odor Water Levels

▼ After Completion □ During Drilling

Surface Condition:	Topsoil/Gravel
Total Depth:	16
First GW Depth:	8

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0 — 1 — 2 — 3 — 4		11.1	75		B11-02		FILL	Moist to wet, silty SAND, fine- to coarse-grained sand, with gravel. Brown. No hydrocarbon odor. (Fill)		
5 — 6 — 7 —	et.	9.6	50		B11-06		ML	Moist, SILT with fine-grained sand, some clay. Gray. No hydrocarbon odor.	Σ	
9 — 10 — 11 —		0.6	50		B11-10		SM-	Wet, silty SAND, fine-grained sand, grading into a sandy silt. Gray. No hydrocarbon odor.		
12 — 13 — 14 — 15 —		4.2 0.1	75		B11-13		ML	Wet, silty SAND grading into sandy silt with trace clay. No hydrocarbon odor.		
16 — 17 — 18 — 19 — 20 —		,			,	13.4 W		Boring terminated at 16' bgs and backfilled with bentonite.		



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA

Date Started: 7/10/2008 Date Finished: 7/10/2008 Logged By: DMB Chk By: TSB

SES Project No.: 0566-001-03 File ID.: POSSOFO-INTECIM-16NILO-12008-00000

**BORING LOG B11** 

#### Drilling Co./Driller: Log of Exploratory Boring: ESN / Scott Drilling Method: **Direct Push** Notes 26.3' N of S wall of building and 12.9' W of W wall of building Location: **Moisture Content:** Water Levels Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet Surface Condition: Asphalt ▼ After Completion 16 Total Depth: Hydrocarbon Odor: NO = no odor, VFO = very faint odor □ During Drilling WO = weak odor, MO = moderate odor, SO = strong odor First GW Depth: 5

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
1 — 2 — 3 —		0.8	50		B12-03		FILL SM- ML	Asphalt.  Moist, fine- to medium-grained SAND with gravel and trace silt.  Brown. No hydrocarbon odor. (Fill)  Moist, sandy SILT, fine- to medium-grained sand, with gravel and some clay. Gray. No hydrocarbon odor.	Mst	
4 — 5 — 6 — 7 —		1.2	50		B12-07			Moist, SILT with clay, trace sand and organics (roots). Brown to gray. No hydrocarbon odor.	∑ Mst	
8 — 9 — 10 — 11 —		0.4	25		B12-11		ML	Wet to moist, SILT. Gray to brown. No hydrocarbon odor.	Wet	
12 — 13 — 14 — 15 —			100		D40.45.5	OM DE		Wet, SILT, some clay. Gray. No hydrocarbon odor.	Wet	5
17 — 18 — 19 —		0.6			B12-15.5	1111	SM ML	Silty SAND, fine-grained sand.  Wet, SILT with some clay. Gray. No hydrocarbon odor.  Boring terminated at 16' bgs with water samples taken from a temporary well screened from 5.5' to 8.5' bgs. Backfilled with bentonite.		
20 —	1000							Data Started: 7/40/2008		



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA Date Started: 7/10/2008 Date Finished: 7/10/2008 Logged By: DMB Chk By: TSB

SES Project No.: 0566-001-03 File ID.: PD0000F0-1-TECHNI-T-GNTLO-10008\_R0000 BORING LOG B12

#### Drilling Co./Driller: Cascade / Steve Log of Exploratory Boring: **Drilling Method:** Hollow-stem Auger **Notes** 11' E of NE building corner and 0' N of NE building corner Location: **Moisture Content:** Water Levels Surface Condition: Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet Grass ▼ After Completion Hydrocarbon Odor: NO = no odor, VFO = very faint odor Total Depth: 11.5 □ During Drilling WO = weak odor, MO = moderate odor, SO = strong odor First GW Depth: 3

B13-03  B13-03  FILL  Moist becoming wet, medium sliff, gravelly SILT with clay, some organics (roollets, wood fragments), some sand. Gray. No hydrocarbon odor. No sheen. (Fill)  Wet  Wet  Wet  Wet  Wet  Wet  Wet  We	Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
S   3   3   0.9   100	1 — 2 —								8 90 E	4	
B13-05.5  B13-05.5  B13-05.5  B13-05.5  FILL  Wet, very stiff, gravelly SILT, as above, less gravel. No hydrocarbon odor. No sheen. (Fill)  Wet  Wet, very stiff, SILT with clay, trace sand. Gray. No hydrocarbon odor. No sheen.  Mst  Wet  Wet  Wet  B13-08  B13-08  B13-08  B13-08  ML  Wet, very stiff, SILT with clay, trace sand. Gray. No hydrocarbon odor. No sheen.  Wet  Wet  Wet  Wet  Wet  Wet  Wet  We	3 — 4 — —	3	0.9	100		B13-03		FILL	Moist becoming wet, medium stiff, gravelly SILT with clay, some organics (rootlets, wood fragments), some sand. Gray. No hydrocarbon odor. No sheen. (Fill)		
B13-06    Mat   Modern   Moder	5 —  6 —  7 —	8	0.5	100	\	B13-05.5		FILL	Wet, very stiff, gravelly SILT, as above, less gravel. No hydrocarbon odor. No sheen. (Fill)	Wet	
B13-10.5  B13-10.5  ML  Wet, very stiff, SILT with clay, as above. No hydrocarbon odor. No sheen.  Wet  Boring terminated at 11.5' bgs. Backfilled with bentonite to 10.5' bgs. Monitoring well MW-08 installed using 2" PVC, 0.010" slotted screen, 2/12 silica sand, bentonite chips, and concrete seal. Slotted screen 5' to 10' bgs. Stick-up completion.	8 — 9 —	10	2.3	67	\	B13-08		ML	Moist, very stiff, SILT with clay, trace sand. Gray. No hydrocarbon odor. No sheen.	Mst	
Monitoring well MW-08 installed using 2" PVC, 0.010" slotted screen, 2/12 silica sand, bentonite chips, and concrete seal. Slotted screen 5' to 10' bgs. Stick-up completion.	_	12	1.1	67	· /	B13-10.5		ML		Wet	
	13 —		*					9	Monitoring well MW-08 installed using 2" PVC, 0.010" slotted screen, 2/12 silica sand, bentonite chips, and concrete seal. Slotted screen 5' to 10' bgs. Stick-up completion.		



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA Date Started: 8/5/2008 Date Finished: 8/8/2008 Logged By: DMB

Chk By: TSB
SES Project No.: 0566-001-03
File ID.: Prococo-nitecha-ngnito-nova prosoc

BORING LOG B13/MW-08

#### Drilling Co./Driller: Cascade / Shane Log of Exploratory Boring: Drilling Method: Air Knife/Hand Auger Notes Location: Alleyway, 19' W of NE building corner Water Levels **Moisture Content:** Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet Surface Condition: Topsoil/Gravel ▼ After Completion Total Depth: Hydrocarbon Odor: NO = no odor, VFO = very faint odor □ During Drilling WO = weak odor, MO = moderate odor, SO = strong odor 1 First GW Depth:

	105-02				moderate		2022 _ 2	That of Bopin.		
Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Deta <mark>l</mark> l
0 — 1 — 2 —				ā					Δ	
3 —	in the second	0.1	100		B14-03.5		FILL	Wet, gravelly SILT with clay, some sand, some organics (rootlets, wood fragments). Gray. No hydrocarbon odor. No sheen. (Fill)	Wet	
5 — —			50	\ \{\}	B14-05.5		FILL	Wet, gravelly SILT with clay, as above, increased gravel content. No hydrocarbon odor. No sheen. (Fill)	Wet	
7 — —								Boring terminated at 6' bgs due to refusal (cinder block-like object encountered). Monitoring well MW-09 installed using 2" PVC, 0.010" slotted screen, 2/12 silica sand, bentonite chips, and concrete seal. Slotted screen 3' to 6' bgs. Stick-up completion.		
8 — — 9 —			2	2				DRAFT	) X	
10 —								Date Started: 8/5/2008		



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA

Date Started: 8/5/2008 Date Finished: 8/8/2008 Logged By: DMB Chk By: TSB SES Project No.: 0566-001-03

File ID.: PASSOFO-STECHNI-SIGNILO-19908 RM

**BORING LOG** B14/MW-09

### Drilling Co./Driller: Cascade / Steve Log of Exploratory Boring: Drilling Method: Hollow-stem Auger **Notes** Location: Within 2006 excavation area **Moisture Content:** Water Levels Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet Surface Condition: Gravel ▼ After Completion Total Depth: 11.5 Hydrocarbon Odor: NO = no odor, VFO = very faint odor □ During Drilling WO = weak odor, MO = moderate odor, SO = strong odor First GW Depth: 2

VV	/U -	weak	ouoi	, IVIO	- moderate	ouoi,	30 - 8	strong odor   First GVV Deptin: 2		
Depth (feet)	Blow Count	Ol	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0 — 1 — 2 — 3 — 4 —	7 7 7		0					No recovery.	Ž	
5 — 6 — 7	7 6 8	1.0	100		B15-06		FILL	Wet, medium dense, SAND with gravel, sand is medium- to coarse-grained, trace fine sand and silt. Brown. No hydrocarbon odor. No sheen. (Fill)	Wet	
8 — 9 —	5 7 9	2.0	67		B15-08		FILL	Wet, medium dense, SAND, fine- to medium-grained, trace coarse sand, trace silt. Brown. No hydrocarbon odor. No sheen. (Fill) Wet, stiff, gravelly SILT, some sand. Gray. No hydrocarbon odor. No sheen. (Fill)	Wet	
10 — — 11 —	7 8 10	0.6	67	\	B15-10.5		SM- ML	Moist, stiff, sandy SILT to silty sand, sand is predominately fine-grained. Gray. No hydrocarbon odor. No sheen.	Mst	
12 — 13 — 14 — 15 —								Boring terminated at 11.5' bgs. Backfilled with bentonite to 10.5' bgs. Monitoring well MW-10 installed using 2" PVC, 0.010" slotted screen, 2/12 silica sand, bentonite chips and concrete seal. Slotted screen 5' to 10' bgs. Stick-up completion.		-
The second	RO	TIME						Date Started: 8/5/2008		



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA Date Started: 8/5/2008 Date Finished: 8/8/2008 Logged By: DMB Chk By: TSB

SES Project No.: 0566-001-03
File ID.: PROSSOFO-INTECHNI-TIGNITIO-12008\_RAGGES

BORING LOG B15/MW-10

Log of Exploratory Boring:		Drilling Co./Driller:	Cascade / Steve		
Notes		Drilling Method:	Hollow-stem Auger		
Location: Sidewalk 38' north of See					
Moisture Content:	Water Levels				
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet	V Affect Completion	Surface Condition:	Concrete		
Hydrocarbon Odor: NO = no odor, VFO = very faint odor	▼ After Completion  ☑ During Drilling	Total Depth:	11.5		
WO = weak odor, MO = moderate odor, SO = strong odor	-x- During Drilling	First GW Depth:	5		

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
1 — 2 —						***		Moist, stiff, gravelly SILT with clay, some sand, some organics		
3 — 4 — 5 —	5 5 5 5	0.6	100		B16-03		FILL	(rootlets, wood fragments). Gray. No hydrocarbon odor. No sheen.  (Fill)  Wet, medium dense, silty SAND, fine-grained. Gray. No hydrocarbon odor. No sheen.	Mst <u>∇</u>	
6 — 7 — 8 —	3 3	0.2	100	A V	B16-08		ML	Moist, stiff, SILT with sand, trace clay. Gray. No hydrocarbon odor.  No sheen.  Wet becoming moist, stiff, SILT with clay, trace sand, trace organics (rootlets). Brown to gray. No hydrocarbon odor. No sheen.	Wet	
9 — 10 — 11 —	3 3 4	0.0	100		B16-10.5		ML	Wet, SILT with clay, trace sand, trace organics (rootlets). Brown to gray. No hydrocarbon odor. No sheen.	Wet	
12 — 13 — 14 — 15 —		4		20				Boring terminated at 11.5' bgs. Backfilled with bentonite to 10.5' bgs. Monitoring well MW-11 installed using 2" PVC, 0.010" slotted screen, 2/12 silica sand, bentonite chips, and concrete seal. Slotted screen 5' to 10' bgs. Flushmount completion.  Date Started: 8/5/2008	2	



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA

BORING LOG B16/MW-11

### Log of Exploratory Boring:

<u>Notes</u>

Drilling Co./Driller:

Cascade / Steve

Drilling Method:

Hollow-stem Auger

Location:

: Within 2006 excavation area

### **Moisture Content:**

Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

<u>Hydrocarbon Odor:</u> NO = no odor, VFO = very faint odor WO = weak odor, MO = moderate odor, SO = strong odor

### **Water Levels**

▼ After Completion

□ During Drilling

Surface Condition:	Gravel	61
Total Depth:	51.5	
First GW Denth:	2	

	Г	Г	T	1		T	T		T	
Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	DRAFT  Description	Moisture Content	Well Detail
0 — 1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10 — 1 — 1 — 1 — 1 — 1 — 1 — 1 — 1 —							- 2	Blind drilled. No soil sampling performed from 0' to 12.5' bgs due to close proximity to B-15 (MW-10).	Ā	
12 <u>—</u> 13 <u>—</u> 14 —	10 12 14	0.3	67		B17-13		SM	Wet, medium dense, silty SAND, fine-grained. Gray. No hydrocarbon odor. No sheen.	Wet	
15 — 16 — 17 —	10 11 13	0.3	100	<u> </u>	B17-16		SM	Wet, silty SAND, as above. No hydrocarbon odor. No sheen.	Wet	
18 —	17 20 22	0.2	33	X	B17-18.5	1	SM	Wet, very dense, silty SAND, as above. No hydrocarbon odor. No sheen.	Wet	
20 <u> </u>	8 8 9	0.1	67		B17-20.5		SM- ML	Wet, medium dense, silty SAND, as above, increased silt content. No hydrocarbon odor. No sheen.	Wet	
23 = 24 =	12 14 15	0.7	100	X	B17-23.5	111	SM- ML	Wet, very stiff, sandy SILT, fine-grained sand. Gray. No hydrocarbon odor. No sheen.	Wet	
25 — 26 — 27 —	12 12 17	0.3	100		B17-26		SM- ML	Wet, very stiff, sandy SILT, fine-grained sand, trace clay. No hydrocarbon odor. No sheen.	Wet	
28 = 29 =	10 10 14	0.0	100		B17-28.5		SM- ML	Wet, very stiff, sandy SILT, fine-grained sand. No hydrocarbon odor. No sheen.	Wet	
30 —										



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA Date Started: 8/6/2008 Date Finished: 8/12/2008 Logged By: DMB Chk By: TSB

Chk By: TSB
SES Project No.: 0566-001-03
File ID.: PROSOFO-NIECONI-1/GNILO-10008\_PROSOF

BORING LOG B17/MW-12

### Drilling Co./Driller: Log of Exploratory Boring: Cascade / Steve Drilling Method: Hollow-stem Auger Notes Location: Within 2006 excavation area **Moisture Content:** Water Levels Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet Surface Condition: Gravel ▼ After Completion Total Depth: 51.5 Hydrocarbon Odor: NO = no odor, VFO = very faint odor □ During Drilling WO = weak odor, MO = moderate odor, SO = strong odor First GW Depth: 2

- 110		wcan	ouoi	, IVIO	- moderate	ouoi,	00 - 0	Tilst GVV Deptil. 2		
Depth (feet)	Blow Count	PID .	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
31	17 20 21	0.0	100		B17-31		SM- ML	Wet, hard, sandy SILT, fine-grained sand. No hydrocarbon odor. No sheen.	Wet	
33	14 21 19	0.8	100	<u> </u>	B17-33.5		SM- ML	Wet, hard, sandy SILT, fine-grained sand. No hydrocarbon odor. No sheen.	Wet	
36	12 17 22	0.8	100		B17-36		SM- ML	Wet, hard, sandy SILT, fine-grained sand. No hydrocarbon odor. No sheen.	Wet	
18	15 19 21	8.0	100		B17-38.5		SM- ML	Wet, hard, sandy SILT, fine-grained sand. No hydrocarbon odor. No sheen.	Wet	
1 =	13 15 15	0.9	100	`' 	B17-41		SM- ML	Wet, very stiff, sandy SILT, fine-grained sand. No hydrocarbon odor. No sheen.	Wet	
3 🔲 .	12 14 17	0.9	100	X	B17-43.5		SM- ML	Wet, very stiff, sandy SILT, fine-grained sand, increased clay content.  No hydrocarbon odor. No sheen.	Wet	
6 🗏 🤅	13 15 15	1.0	100	X	B17-46		SM- ML	Wet, very stiff, sandy SILT, fine-grained sand. No hydrocarbon odor. No sheen.	Wet	
3 🗆 -	15 18 19	1.0	100	X	B17-48.5		SM- ML	Wet, hard, sandy SILT, fine-grained sand No hydrocarbon odor. No sheen.	Wet	
	18 20 21	1.0	100	X	B17-51		SM- ML	Wet, hard, sandy SILT, fine-grained sand. No hydrocarbon odor. No sheen.	Wet	Ø <b>≡</b> 8
2		d			n e			Boring terminated at 51.5' bgs. Reconnaissance groundwater samples taken from temporary wells screened 15' to 20' bgs, 25' to 30' bgs, and 35' to 40' bgs. Backfilled with bentonite to 50.5' bgs. Monitoring well MW-12 installed using 2" PVC, 0.010" slotted screen, 2/12 silica sand, bentonite chips, and concrete seal. Slotted screen 45' to 50' bgs. Stick-up completion.	12	
8 = 9 = 9					10			DRAFT		7.
1 1	301	1110						Date Started: 8/6/2008		



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA Date Started: 8/6/2008 Date Finished: 8/12/2008 Logged By: DMB Chk By: TSB

SES Project No.: 0566-001-03
File ID.: PROCOGFO-INTECHNI-1/GANTIO-1/2008, FROCOGFO

BORING LOG B17/MW-12

Page 2 of 2

#### Drilling Co./Driller: ESN / John Log of Exploratory Boring: **Drilling Method:** Direct Push 7.7' N, 20.9 W of SW Corner of WTSC building 11:30 Air monitoring at this location, PID=0.0 Location: **Moisture Content:** Water Levels Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet Surface Condition: Asphalt ▼ After Completion Hydrocarbon Odor: NO = no odor, VFO = very faint odor Total Depth: 8.5 □ During Drilling WO = weak odor, MO = moderate odor, SO = strong odor First GW Depth: 5.3

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
1 —		1.2	75	The state of the s	B18-01.5		FILL	Asphalt  Moist, silty SAND, fine- to coarse-grained, with gravel. Brick fragments. Brown. No odor. (Fill)	Mst	g
3 —		1.5			B18-04		ML	Moist, SILT with clay and some organics (wood fragments). Grayish brown. No odor.  Moist, sandy SILT with trace clay. Brown. No odor.		
5 —		1.5	100		B10-04		SM- ML		Mst ⊈	
6 —		1.8			B18-07			Wet, silty SAND, fine-grained, with trace clay. Gray to reddish-brown.	Mst Wet	
8 —		1.3	100	1.00	B18-08.5		SM	No odor.		
9 —							,	Boring terminted at 8.5 feet bgs and converted to temporary well with 5.5 to 8.5' bgs screen. 1.5 gallons purged before sample, then screen removed and backfilled with bentonite.		8 8
10 -										
PROPERTY OF THE	ALC: UNKNOWN							Data Startad: 11/5/2009		



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA Date Started: 11/5/2008 Date Finished: 11/5/2008 Logged By: DMB Chk By: TSB

SES Project No.: 0566-001-03 File ID.: POSSOTO-INTEGRIN-HIGHTLO-12008\_PROSSO BORING LOG B18

### Drilling Co./Driller: ESN / John Log of Exploratory Boring: Drilling Method: **Direct Push** 12:40 Air monitoring at this location, PID=0.0. 0-4' Poor recovery, asked driller to use catcher and try again at nearby location. 43.4' N, 17.8' W of SW Corner of WTSC building Location: **Water Levels Moisture Content:** Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet Surface Condition: Asphalt ▼ After Completion Total Depth: 7 Hydrocarbon Odor: NO = no odor, VFO = very faint odor □ During Drilling WO = weak odor, MO = moderate odor, SO = strong odor First GW Depth: 6

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0 —					1		FILL	Asphalt  Moist, silty SAND, fine- to coarse-grained sand, with gravel. Brown.  No odor. (Fill)		
_					- n			Moist, sandy SILT with clay. Grayish brown. No odor.		
2 —		10	40	***************************************	B40.00		SM- ML	# 2 50	Mst	
3 —		1.2	×		B19-03					8
		0.5			B19-05			Wet, SILT with clay, trace sand, gravel and organics. Gray. No odor.		
5 —		0.5	50		B19-05		ML		Wet <u>⊽</u>	
6 —		0.6			B19-07				<u> </u>	
								Boring terminted at 7 feet bgs and converted to temporary well with 4 to 7' bgs screen. 0.5 gallons purged before sample, then screen removed and backfilled with bentonite.		
8 —	*									
9 —		v.				*1		DRAFT		c s
	STATE I			_						



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA Date Started: 11/5/2008 Date Finished: 11/5/2008 Logged By: DMB Chk By: TSB

SES Project No.: 0566-001-03 File ID.: POSSOFO-INTECHNI-1IGNITIO-12008\_RICOSO BORING LOG B19

TOO GPJ Page 1 of 1

### Log of Exploratory Boring:

13:35 Air monitoring at this location, PID=0.0

Drilling Co./Driller:

ESN / John

Drilling Method:

**Direct Push** 

Location:

17.8' W of E sidewalk edge, 21.4' N of SW corner of ODC building

### **Moisture Content:**

Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor WO = weak odor, MO = moderate odor, SO = strong odor

### Water Levels

▼ After Completion

□ During Drilling

Surface Condition:	Asphalt	
Total Depth:	10	
First GW Depth:	8	

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0 — 1 — 2 —			50				FILL	Asphalt  Moist, silty fine to coarse SAND with gravel. Brown. No odor. (Fill)	Mst	
3 —		0.4			B20-03		SM-	Moist, sandy SILT with trace clay. Brown. No odor.		
5 —		0.3	85		B20-06		ML	Moint eith CAND for region and Dever No adag	Mst	
8 — 9 —		0.5	80		B20-08		SM 	Moist, silty SAND, fine-grained sand. Brown. No odor.  Wet, fine-grained SAND with silt. Brown. No odor.	<u>∇</u> Wet	
-		0.3	80	A	B20-10		51		vvet	
11 —				er **				Boring terminted at 10 feet bgs and converted to temporary well with 7 to 10' bgs screen. 1-gallon purged before sample collection, then screen removed and backfilled with bentonite.		
14 —								Date Started: 11/5/2008		



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA

Date Started: 11/5/2008 Date Finished: 11/5/2008 Logged By: DMB

Chk By: TSB

SES Project No.: 0566-001-03 File ID.: PROSOFO-INTECHNI-HONTLO-12008 RICE

**BORING LOG B20** 

### Drilling Co./Driller: Cascade / Steve Log of Exploratory Boring: Drilling Method: **HSA** Notes Location: 9.5' S of MW14, 3.3' W of Western curb **Moisture Content:** Water Levels Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet Surface Condition: Concrete ▼ After Completion Total Depth: 39 Hydrocarbon Odor: NO = no odor, VFO = very faint odor □ During Drilling WO = weak odor, MO = moderate odor, SO = strong odor First GW Depth: 4.5

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	DESCRIPTION	Moisture Content	Well Detail
0 — 1 — 2 —								Concrete	,	
3 — 4 —	8 9 9	0.0	100				ML	Moist, stiff, SILT with clay and trace organics. Grayish brown. No odor.	Mst ∑	
5 — 6 —	10 12 24 3 9	0.1	20		B21-06		SM- ML	Wet, hard, sandy SILT with some clay. Grayish brown. No odor.  Wet, medium dense, silty SAND, fine-grained sand. Gray. No odor.	Wet	
8 — 9 —	16 10 18 20		20		B21-07.5		SM	Wet, dense, silty SAND, fine-grained sand. Gray. No odor.	Wet	
10 —	8 11 14	0.2	80	X	B21-11.5		SM- ML	Wet, very stiff, sandy SILT. Gray. No odor.	Wet	
12 — 13 — 14 —	13 13 19	0.1	100				SM	Wet, dense, silty SAND, fine-grained. Very silty from 13.75-14'. Gray. No odor.	Wet	
15 — 16 — 17 —	8 10 14	0.1	100	X	B21-15.5		SP	Wet, medium dense, fine-grained SAND with silt. Gray. No odor.	Wet	
18 —	10 11 16	0.3	100	X			SP	Wet, medium dense, fine-grained SAND with silt. Gray. No odor.	Wet	
20 — 21 —	8 9 9	0.1	100	X	B21-20.5		SP	Wet, medium dense, SAND with silt. Gray. No odor.	Wet	
22 -	-00					_		Date Started: 11/8/2008		



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA Date Started: 11/6/2008 Date Finished: 11/6/2008 Logged By: DMB Chk By: TSB

SES Project No.: 0566-001-03 File ID.: PUSSOFO-INTECHNI-TGNITIO-12008\_RANGED BORING LOG B21/MW-13

# Log of Exploratory Boring:

Drilling Co./Driller:

Cascade / Steve

Drilling Method:

HSA

Location: 9.5

n: 9.5' S of MW14, 3.3' W of Western curb

**Moisture Content:** 

Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

▼ After Completion ▼ During Drilling

Water Levels

Surface Condition: Concrete

Total Depth: 39

First GW Depth: 4.5

<u>Hydrocarbon Odor:</u> NO = no odor, VFO = very faint odor WO = weak odor, MO = moderate odor, SO = strong odor

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
22 — 23 — 24 —	9 12 12	0.2	100				SP	Wet, medium dense, SAND with silt. Gray. No odor.	Wet	
25 — 26 — 27 —	10 12 14	0.3	100		B21-25.5		SM- ML	Wet, very stiff, sandy SILT. Gray. No odor.	Wet	
28	9 12 12	0.1			÷		SM- ML	Wet, very stiff, sandy SILT. Gray. No odor.	Wet	
30 — 31 — 32 —	4 6 6	0.5	100	X	B21-30.5		SM- ML	Wet, stiff, sandy SILT. Gray. No odor.	Wet	
33 — 34 —	8 9 9	0.4	100	X	-		SM- ML	Wet, stiff, sandy SILT. Gray. No odor.	Wet	
35 — 36 — 37 —	10 12 9	0.3	100	X	B21-35.5		SM- ML	Wet, very stiff, sandy SILT. Gray. No odor.	Wet	
38 —	9 9 10	0.2	100		B21-39		SM- ML	Wet, stiff, sandy SILT. Gray. No odor.	Wet	
41 — 42 —								Boring terminated at 39 feet bgs and converted to 2-inch-diameter PVC monitoring well MW-13 with 0.010 slot screen from 4.5 to 9.5 feet bgs. Reconnaissance groundwater samples collected from temporary wells screened 16' to 19' bgs, 26.5' to 29.5' bgs, and 36.5' to 39.5' bgs.		
43 —		IND						Date Started: 11/6/2008	9	



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA Date Started: 11/6/2008 Date Finished: 11/6/2008 Logged By: DMB

Chk By: TSB

SES Project No.: 0566-001-03 File ID.: PIGGOFO-INTEGRATIO-10003\_PROSEC BORING LOG B21/MW-13

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## Log of Exploratory Boring:

**Notes** 

11:30, 13:05 Air monitoring at this location, PID=0.0. 45-degree monitoring well, depths are representative of hypotenuse depth. True vertical depth is 10.32 feet bgs.

Drilling Co./Driller: Cascade / Steve

Drilling Method: HSA

Location: 16' N of seep, 8' E of Eastern curb

### **Moisture Content:**

Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

<u>Hydrocarbon Odor:</u> NO = no odor, VFO = very faint odor WO = weak odor, MO = moderate odor, SO = strong odor

### Water Levels

▼ After Completion
 □ During Drilling

Surface Condition:	Bark/Landscaping
Total Depth:	15
First GW Depth:	6

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0 — 1 — 2 — 3					¥					
4 — 5 —	12 13 13	0.2	80	X	B22-0.375		SM	Moist, medium dense, silty SAND, fine-grained. Gray. No odor.	Mst	
6 — 7 — 8 —	2 7 4	0.1	20	M	522-03.3		ML SP	Wet, stiff, SILT with sand and clay. Gray. No odor.  Wet, medium dense, SAND with gravel. Gray. No odor.	∑ Wet	
9 —	9 9 9		100	X			SM- ML / PI / ML	Wet, stiff, sandy SILT with trace gravel. No odor.  Peat layer, organics with wood fragments.  Wet, stiff, SILT with clay and some sand and trace organics. Gray.  No odor.  I	Wet	
11 —	9 14		100	X	B22-11		ML	Wet, very stiff, SILT with clay and trace gravel and organics. Gray grading to brown. No odor.  Augered down to 15' bgs.	Wet	
14 —		0.4			B22-14					
16 — 17 — 18 — 19 —								Boring terminated at 14 feet bgs and converted to 45-degree, 2-inch-diameter PVC, angled monitoring well MW-14 with 0.010 slot screen from 10 to 15 feet bgs (5' screen total). Reconnaissance groundwater samples collected from temporary well screened 1.5 to 4.5 feet bgs. Depths are representative of hypotenus depth. True vertical depth is 10.32 feet bgs.		
20 —								Date Started: 11/7/2008		

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Former Olympia Dry Cleaners 606 East Union Street Olympia, WA Date Started: 11/7/2008 Date Finished: 11/7/2008 Logged By: DMB Chk By: TSB

SES Project No.: 0566-001-03 File ID.: PROSSED-INTECHRICANTIO-12003\_8705555 BORING LOG B22/MW-14

#### Log of Exploratory Boring: Drilling Co./Driller: SES / David Drilling Method: Hand Boring Sheen observed on water. 18' N of S building wall (North adjascent) Location: **Moisture Content:** Water Levels Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet Surface Condition: Topsoil/Gravel ▼ After Completion Total Depth: 1.5 Hydrocarbon Odor: NO = no odor, VFO = very faint odor □ During Drilling WO = weak odor, MO = moderate odor, SO = strong odor First GW Depth: 0.75

	_			1.0000000	- moderate t			riist GW Deptil. 0.75		
Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0 —					HB2-0.75		GP	Gravel.	Ā	ž.
1 —		17.6					ML	Wet, SILT with clay. Gray. Sheen observed on water.	Wet	
2 —							7	Hand boring terminated at 1.5' bgs and backfilled with bentonite.	>	19
3 —				,	,		,	or en		
e <u>.</u>										20
4 —										
5 —					ä			ا الله الله الله الله الله الله الله ال		



Former Olympia Dry Cleaners 606 East Union Street Olympia, WA Date Started: 7/10/2008 Date Finished: 7/10/2008 Logged By: DMB

Chk By: TSB
SES Project No.: 0566-001-03
File ID.: Proporto-HIECONE-1-GRITLO-12008, Proporto-

BORING LOG HB-2