



PORTLAND HARBOR RI/FS

**ROUND 3B SEDIMENT  
DATA REPORT**

**APPENDIX B**  
**GRAB DESCRIPTION FORMS**

**DRAFT**

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August 1, 2008

**Prepared for**  
The Lower Willamette Group

**Prepared by**  
Integral Consulting Inc.

SAMPLE LOG

Date: 11/14/2007

logged by:

J. Reeve

Page: 1

Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
11:46	G612-1	2	30	0-1: fine, flocculant Silt. 1-20: Silt w/ sand, v. wet, v. soft, sand increasing to 30% w/ depth. 20-30: Sand, fine to medium grained.	brownish gray gray	none none	none none	
12:30	G612-2	1	30	Same as above	--	--	--	
13:15	G622	1	30	0-1: fine, flocculant Silt. 1-30: Silt w/ trace sand, v. soft, v. wet, low plasticity.	brown gray	none trace organic fibers, 1 wood piece 4cm long.	none none faint indistinct	1 creosote globule
14:07	G625	2	30	Same as above except no odor, sheen, or debris.	--	none	none	none
14:39	G628	1	30	0-1: fine, flocculant Silt. 1-30: Silt w/ trace v. fine sand, v. wet, v. soft, low plasticity.	brown gray	none none	none none	
15:12	G623	1	30	0-1: fine flocculant Silt. 1-30: Silt w/ trace v. fine sand, wet v. soft to soft, no plasticity.	brown gray	plant debris throughout plant debris throughout	none none	worm at 10cm depth, 4cm long, occ. plants.
15:51	G638	1	30	0-1: fine flocculant Silt. 1-30: Silt w/ sand, sand (5-10%) is fine, decreasing w/ depth, silt is wet, soft, low plasticity.	light brown gray	none trace plant debris	none none	1 large 30cm long stick in jaws.

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Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
12:18	G785	1	30	0-1: fine flocculant Silt. 1-14: Silt, no plasticity. 14-30: Sand w/ silt, 20% silt, fine grained, subrounded	brown to gray gray gray	trace rootlets trace plant fragments none	none none none	no sheen
13:05	G786	1	27	0-1: Silt. 1-27: Silt w/ sand, 10% fine sand, medium plasticity.	brown gray	trace leaflets few rootlets, trace refuse, trash	metallic metallic	isolated chironomids
13:40	UG06A	1	29	0-1: Silt. 1-26: Silt, trace fine sand, low to medium plasticity. 26-29: as above, with 20% fine sand.	brown gray gray	trace leaflets trace plant fragments trace plant fragments	slight metallic slight metallic slight metallic	
14:06	UG06B	1	29	0-1: Silt. 1-26: Silt, trace fine sand, low to medium plasticity. 26-29: as above, with 20% fine sand.	brown gray gray	trace leaflets trace plant fragments trace plant fragments	slight metallic slight metallic slight metallic	
14:26	UG06C	1	28	Same as above	--	--	--	

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Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
9:39	G788	2	25	0-12: fine sand, poorly sorted, trace medium sand, subrounded, trace silt (5%).	brown	none	none	snails at surface
				12-25: as above, 10% silt.	gray	trace plant material	none	
10:57	G787	1	26	0-2: Silt. 2-10: Silt, no plasticity.	brown to gray gray	none none	none none	
11:58	UG12A	1	30	0-3: fine flocculant Silt. 3-30: Silt, trace very fine sand, no plasticity, >60% fines.	brown gray	none trace plant material	none none	
12:17	UG12B	1	30	Same as above	--	--	--	
12:34	UG12C	1	27	0-3: fine flocculant Silt. 3-27: Silt, trace very fine sand, last 10cm w/ 15% fine sand, no plasticity, >60% fines.	brown gray	none trace plant material	none none	
15:30	UG03A-1	1	26	0-1: flocculant Silt. 1-12: Silt, 10% very fine sand, no plasticity. 12-26: fine to medium sand, poorly sorted, subangular with approximately 5% silt.	brown gray brown to gray	trace rootlets none none	none none none	

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Date: 11/15/2002

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J. Reeve

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Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
8:41	G637-1	1	29	0-1: fine, flocculant Silt. 1-15: Silt w/ sand, moist, v. soft to soft, medium plasticity, 10% sand.	light brown light gray	none none	none none	
				15-29: silty Sand, 35% fine to medium sand, moist, v. soft to soft, low plasticity, occasional sand lenses.	light gray	trace plant debris, occ. large (15cm) wood debris	none	
9:20	G637-2 G637-3	1	29	Same as above, except less wood debris in lower portion of sample.	--	less wood debris than previous	--	
9:54	G643	1	30	0-1: fine, flocculant Silt. 1-24: sandy Silt, 15-40% sand increasing with depth, sand is v. fine to medium, silt is moist, v. soft, low plasticity.	light brown brownish gray	none trace plant refuse and plant debris	none none	trace florettes
				24-30: silty Sand, loose, v. fine to medium, 30% silt.	gray	none	none	trace sheen
10:34	G648	1	30	0-1: fine, flocculant Silt. 1-12: Silt w/ sand, 20% sand, moist, soft, no plasticity.	light brown gray	none trace sticks to 10cm	none none	trace florettes
				12-30: Sand, fine to medium grained, firm to stiff, grains are subangular.	dark gray	none	none	trace florettes
11:15	G653	1	30	0-1: fine, flocculant Silt. 1-30: Silt w/ sand, 25% v. fine sand, silt is wet, v. soft to soft, low plasticity	light brown light brownish gray	none fibrous wood	none none	
11:44	G654	1	30	Same as G648 except as noted:	--	less debris	faint oil	light sheen

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Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
13:10	G663	1	26	0-1: fine, flocculant Silt. 1-30: Sand w/ clay, v. dense, sand is medium to coarse, micaceous, subangular to platy, 25% clay in lenses w/ medium plasticity.	light brown brown	none abundant wood chunks	none none	
13:48	G665	1	29	0-1: fine, flocculant Silt. 1-29: sandy Silt, 30% v. fine sand, wet, soft, low plasticity, micaceous.	light brown gray	none none	none none	occasional rust lenses
14:25	G671	1	28	0-1: fine, flocculant Silt. 1-28: clayey Silt w/ sand, 10% v. fine sand, soft to firm, low to medium plasticity, occasional sand (SP) lenses.	light brown light gray	none none	none none	
15:31	G672	1	27	0-1: fine, flocculant Silt. 1-8: sandy Silt, 40% fine sand, moist, soft, no plasticity.	light brown light gray	none none	none none	
				8-27: Sand w/ silt, 10% silt, medium to coarse grained, loose.	dark gray	occasional subround brick fragments	none	trace florettes
16:01	G675	1	28	0-1: discontinuous fine flocculant Silt. 1-3: sandy Silt, v. soft, wet, no plasticity.	light brown gray	none none	none none	
				3-28: Sand, fine to medium grained, subangular, dense to v. dense, micaceous.	dark gray	trace sticks to 8cm	none	

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Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
8:49	G674	1	29	0-1: discontinuous fine flocculant Silt. 1-8: sandy Silt, 40% coarse sand, soft to firm, no plasticity.	light brown light gray	none abundant wood chunks to 40 cm length	none none	glass jar and steel band in jaws pockets of sheen
				8-29: medium to coarse sand, subangular grains, dense, uneven upper contact.	dark gray	same as above	none	same as above.
9:11	G683	1	29	0-1: fine flocculant Silt. 1-29: sandy Silt, 30% fine sand, v. wet, v. soft, no plasticity.	light brown light gray	none none	none none	chronomid
9:31	G685	1	30	0-1: fine flocculant Silt. 1-30: Silt w/ sand, 20% v. fine sand, soft, very wet, no plasticity.	light brown light gray	none trace rootlets	none none	isolated pockets of sheen
9:50	G689	1	24	0-4: Sand w/ trace silt, fine to medium grained, very loose.	light yellowish brown	none	none	
				4-9: Clay, soft, wet, medium plasticity.	dark grayish black	none	none	2 corbicula
				9-24: Sand w/ trace silt, fine to medium grain, loose.	dark grayish black	abundant wood debris (rotting, 60% of sample)	sulfide	
10:17	G693	1	28	0-1: fine flocculant Silt. 1-28: Silt, very soft, very wet, no plasticity.	light brown light greenish gray	none trace wood debris	none faint sulfide	trace sheen
10:34	G694	1	20	0-1: fine flocculant Silt. 1-20: elastic Silt, firm to stiff, very low moisture, medium plasticity.	light brown gray to dark gray	none	none	

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Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
10:58	G700	1	30	0-1: fine flocculant Silt. 1-30: Silt, soft, wet, very low plasticity.	light brown gray	none none	none none	
11:17	G707	1	30	0-1: fine flocculant Silt. 1-30: Silt w/ sand, 15% very fine sand, very soft, wet, no plasticity.	light brown gray	none none	none none	pockets of sheen
11:38	G711	1	28	0-1: fine flocculant Silt. 1-28: Silt w/ sand, 20% very fine sand, very soft, wet, no plasticity.	light brown gray to dark gray	none wood and plant debris	none faint sulfide	pockets of sheen
11:59	G713	1	28	0-1: fine flocculant Silt. 1-28: Silt w/ sand, 15% very fine sand, soft to firm, moist, low plasticity, pockets of silty sand (fine to medium grain), micaceous.	light brown gray	none none	none none	chironomid
13:00	G718	1	29	0-1: fine flocculant Silt. 1-29: Silt w/ sand, 20% very fine sand, wet, very soft, no plasticity.	light brown gray	none none	none none	
13:19	G722	1	29	0-1: fine flocculant Silt. 1-29: Silt, very soft, very wet, no plasticity.	light brown gray	none trace rootlets	none none	trace florettes
13:37	G736	1	29	0-1: fine flocculant Silt. 1-29: Silt w/ sand, 10% very fine sand, soft, wet, no plasticity.	light brown gray	none sawdust and abundant wood fibers	none none	

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Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
13:54	G737	1	29	0-1: fine flocculant Silt. 1-20: Silt, soft, moist, very low plasticity.	light brown gray	none trace wood fibers	none none	
				20-29: sandy Silt, 35% very fine to fine sand, moist, soft, no plasticity.	gray to dark gray	wood fibers and sawdust	none	trace florettes
14:17	G740	1	27	0-1: fine flocculant Silt. 1-27: Silt, micaceous, firm, low moisture, no plasticity.	light brown gray	none abundant wood and plant debris	none none	trace sheen tracec florettes
14:38	G741	1	30	0-1: fine flocculant Silt. 1-30: Silt, micaceous, very soft, wet, no plasticity.	light brown gray	none none	none none	
14:54	G744	1	30	Whole sample same as G741, except less micaceous.	--	--	--	
15:09	G745	1	30	0-1: fine flocculant Silt. 1-30: Silt, micaceous, very soft, wet, no plasticity.	light brown gray	none none	none none	
15:49	G656	2*	30	Whole sample same as first attempt (November 15th).	--	--	--	* First attempt was Nov. 15. Resampled due to broken bioassay jars.

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Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
9:50	UG03B	1	30	0-2: Silt. 2-30: Silt w/ sand, sand is fine, no plasticity.	brown gray	none none	none none	2 corbicula
10:28	UG03C	1	27	0-1: Silt. 1-15: Silt. trace very fine sand, no plasticity.	brown gray	none none	none none	
				15-27: Sand, fine grained, subrounded.	gray	none	none	
11:04	UG02A	1	26	0-1: Silt. 1-26: Silt, up to 15% fine grained sand, no plasticity.	brown gray	none trace plant material	none none	
11:53	UG02B	1	30	0-2: Silt. 2-30: Silt, up to 20% fine grained sand, no plasticity.	brown gray	none trace leaf litter	none none	
12:47	UG02C	1	28	0-2: Silt. 2-28: Silt, up to 15% fine grained sand, no plasticity.	brown gray	none green plant material	none none	

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**SAMPLE LOG**

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Page: 1

Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
9:47	G670	6	26	0-3: fine flocculant Silt. 3-26: Sand w/ gravel, medium grained, gravel to 4cm length, loose, occasional brown patches.	brown dark gray	none none	none none	trace sheen
10:32	G684-1	1	30	0-2: fine flocculant Silt. 2-30: silty Sand, 40% silt, very fine to fine grained, very loose to loose, silt decreasing with depth, denser with depth.	brown dark gray	none 1 25cm stick	none none	trace florettes
10:52	G684-2 & G684-3	1	30	Same as above	--	--	--	
11:34	G746	1	30	0-1: fine flocculant Silt. 1-30: Silt w/ sand, 20% very fine sand, very soft, very wet, no plasticity.	brown gray	none none	none none	
11:54	G750	1	30	0-1: fine flocculant Silt. 1-30: Silt w/ sand, 10% very fine sand, soft, moist, no plasticity.	brown light gray	none none	none none	
12:43	G751	1	30	Same as above.	--	--	--	
13:05	G747	1	30	0-1: fine flocculant Silt. 1-25: sandy Silt, 30% fine to medium sand, soft, wet, no plasticity.	light brown light gray	none trace wood debris	none none	
13:29	G752	1	30	0-1: fine flocculant Silt. 1-30: Silt w/ sand, 10% very fine sand, soft, moist, very low plasticity.	brown light gray	none plant debris and occasional refuse	none mild sulfide	1 shrimp on surface 1 beer can

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				plasticity.				
				20-30: sandy Gravel, fine grained gravel with coarse grained sand, gravel is subangular to subround.	dark gray	plastic and metallic chips, abundant sticks up to 50cm length	none	
14:13	G763	1	30	0-1: fine flocculant Silt. 1-16: sandy Silt, 30% very fine sand, very soft, wet, no plasticity.	light brown gray	none plant fibers	none none	sheen spot on surface
				16-30: silty Sand, 40% silt, very fine to fine grain, very loose.	gray	plant fibers	none	
14:50	G766	2	27	0-1: fine flocculant Silt. 1-5: sandy Silt, 30% very fine to fine sand, very soft to soft, wet, no plasticity.	light brown light gray	none none	none none	
				5-13: Sand, fine to medium grained, loose to dense.	gray	trace plant debris	none	only sampled to 13 cm depth due to gravel below.
				13-30: Gravel, rounded, 3-5 cm dia., very loose, gravel is a well-rounded river bottom gravel. grained, loose to dense.	dark gray	none	none	
15:41	G758	1	29	0-1: fine flocculant Silt. 1-29: sandy Silt, 30-40% very fine to fine sand, increasing with depth, soft to firm, moist, no plasticity.	light brown light gray	none trace plant debris	none none	

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Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
10:57	G772	1	27	0-2: Silt.	brown	trace plant material, isolated rip-rap	none	
				2-26: Silt w/ sand, up to 20% fine sand.	gray	few plant, uncontained refuse	none	
11:42	G775	1	30	0-1: Silt. 1-30: Silt w/ sand, up to 10% fine sand, no plasticity.	brown gray	trace plant material none	none none	florettes of sheen
13:46	G774	1	30	0-1: Silt. 1-30: Silt w/ sand, up to 10% fine sand, no plasticity.	brown gray	leaf and plant debris none	none none	
14:12	G769	1	28	0-1: Silt. 1-28: Silt w/ sand, up to 10% fine sand, no plasticity.	brown gray	none none	none none	
14:37	G767	1	28	0-1: Silt. 1-28: Silt w/ sand, up to 10% fine sand, no plasticity.	brown gray	none none	none none	
				3-21: Silt, soft to firm, low moisture, low plasticity.	light gray	none	slight indistinct	light sheen, steel cables caught in jaws.
9:25	G618	1	30	0-1: fine flocculant Silt. 1-30: Silt w/ sand, 10% sand, very soft, very wet, no plasticity.	light brown light gray	none none	none none	one Siberian shrimp 7cm long
9:58	G617	1	29	0-1: fine flocculant Silt. 1-29: Silt w/ sand, 20% fine sand, very soft, very wet, no plasticity.	light brown brownish gray	none trace wood debris	none none	
11:00	G616	2	29	0-3: sandy Silt, 30% fine sand, flocculant. 3-29: Silt w/ clay, very dense, very dry, low to medium plasticity.	light brown gray	none none	none none	
11:41	G614	1	30	0-1: fine flocculant Silt. 1-30: Silt, very soft, very wet, no plasticity.	light brown light to medium gray	none none	none none	
12:50	G611	1	29	0-1: fine flocculant Silt. 1-29: Silt w/ clay and sand, 15% fine sand, soft, moist, low plasticity.	light brown gray	none none	none none	8cm diameter angular rock in jaws
13:50	G608	1	30	0-1: fine flocculant Silt. 1-30: Silt, very soft, very wet, no plasticity.	light brown light gray	none none	none none	trace florettes
14:15	G607	1	30	Same as above	--	--	--	--

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Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
14:44	G606	1	30	Same as above except the following:	--	abundant wood debris	--	no florettes
15:07	G605	1	30	Same as above except the following:	--	no debris	--	--
15:35	G604	1	30	Same as above	--	--	--	--
16:01	G603	1	30	Same as above	--	--	--	--
16:24	G602	1	30	Same as above except very soft to soft.	--	--	--	--

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Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
9:18	G620	2	28	0-2: Silt. 2-28: Silt, trace fine sand, wet, no plasticity.	brown gray	trace plant material none	none none	tubules on surface
9:44	G621	1	25	0-1: discontinuous Silt.	brown	leaf litter and isolated wood fragments	none	
				2-25: Sand w/ silt, fine to medium grained, poorly sorted, subrounded, up to 10% silt.	gray	leaf litter and isolated wood fragments	none	
10:09	G624	1	27	0-2: Silt. 2-27: Silt, up to 15% fine sand, wet, no plasticity.	brown gray	trace plant material none	none none	
10:40	G626	1	25	0-1: fine Sand, ripples (photo). 10-25: Silt, up to 10% fine sand, medium plasticity.	brown gray	trace plant material and wood fragments none	none none	
11:02	G627-1	1	29	0-2: Silt. 2-29: Silt. trace fine sand, low plasticity.	brown gray	none none	none none	corbicula
11:22	G627-2	1	28	0-2: Silt. 2-28: Silt, trace fine sand, low plasticity.	brown gray	none fishing line	none none	
11:42	G629	1	25	0-1: Silt. 1-20: Silt, low plasticity, trace medium sand, isolated medium gravel	brown gray	none metal bar	none slight H2S	

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Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
				20-25: Silt, up to 20% fine to medium subangular sand.	gray	none	none	
12:04	G630	1	26	0-2: Silt, soft. 2-24: Silt, up to 15% fine sand, no plasticity.	brown gray	trace leaf litter none	none none	
				24-26: Sand, fine to medium, poorly sorted, subrounded.	gray	few wood fragments	none	
12:26	G631	1	27	0-1: Silt. 1-27: Silt, trace fine sand, no plasticity.	brown gray	none none	none none	couple florettes of sheen
12:45	G632	1	27	0-1: Silt. 1-24: Silt, trace fine sand, no plasticity. 24-27: Sand, fine to medium grained, subrounded.	brown gray gray	none trace plant material trace wood fragments	none none none	florettes of sheen upon mixing
14:21	G634	1	29	0-1: Silt. 1-27: Silt, trace fine sand, no plasticity.	brown gray	none none	none none	

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Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
14:39	G635	1	27	0-1.5: Silt, trace fine sand. 1.5-8: Silt, no plasticity, trace fine sand.	brown gray	none none	none none	
				8-27: Sand w/ silt, up to 15% silt, sand is fine to medium, subangular to subrounded, poorly sorted.	gray	trace plant	none	
14:59	G636	1	24	0-2: Silt. 2-7: Silt, trace fine sand, no plasticity.	brown gray	none trace wood fragments	none none	
				7-24: Sand w/ silt, up to 15% silt, sand is fine to medium, subangular, poorly sorted.	gray	2 welding rods, wood fragments in grab	none	
15:32	G639	2	24	0-1: Silt, trace fine sand. 1-24: Silt, trace fine sand, medium plasticity. discontinuous lens of medium to coarse sand at 7-10cm.	brown gray gray	none none few wood fragments	none none acidic TPH	nodules of tar and sand, light sheen
15:59	G641	2	25	0-2: Silt. 2-25: Silt, trace fine sand, no plasticity.	brown gray	none none	none none	

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Date: 11/28/2007

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Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
				2-25: Silt w/ sand, 5-20% medium sand, decreasing with depth, soft, moist, low plasticity.	light to medium gray	trace wood debris	strong diesel/oil	heavy sheen - occurs at top of 2-25cm silt layer, at 2-5cm depth predominantly
9:42	G601	1	27	0-1: Silt w/ sand, 10% medium grained sand, flocculant silt. 1-27: Silt w/ sand, 10% fine sand, very soft to soft, moist, no plasticity.	brown medium gray	none none	none none	trace florettes
10:13	G600	1	29	0-1: fine flocculant Silt. 1-29: Silt, very soft, wet, no plasticity.	light brown gray	none none	none none	
10:34	G784	1	30	0-1: sandy Silt, 40% sand, flocculant 1-30: sandy Silt, 25% medium sand, very soft, very wet, no plasticity.	brown to gray light gray	none none	none none	
10:58	MG001	1	22	0-1: silty Sand, 40% silt, medium grained, organic-rich, very loose.	yellowish brown	none	none	
				1-22: silty Sand, 45% silt, fine to medium grained, very loose.	gray to dark gray	abundant wood debris with sticks to 30cm length	none none	sticks in jaws, wood debris 30% of sample
11:37	MG002-1	2	28	0-1: sandy Silt, 40% sand, flocculant. 1-7: silty Sand, 30% silt, fine to coarse grained, very loose.	light brown dark brownish gray	none abundant wood/plant debris	none none	abundant refuse in sample

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SAMPLE LOG

Date:		11/28/2007		logged by:		J. Reeve		Page: 2	
14:30	MG006	1	23	0-1: silty Sand, 30% organic-rich, medium to coarse grained, very loose.	light brown	none	none		
				1-23: Sand, very fine to medium grained, loose to firm, with occasional 8cm diameter inclusions of gray low to medium plasticity clay.	orangish brown	occasional wood debris	none		
15:01	MG007	1	30	0-1: Silt, organic-rich, very soft, no plasticity. 1-30: sandy Silt, 45% very fine sand, very soft, very wet, low plasticity.	light brown gray	none abundant plant fibers	none none		
16:08	MG009	1	21	Silty Sand, 30% silt, fine to medium grained sand, very loose to loose.	yellowish brown	60% wood debris	faint petroleum	trace florettes	
16:37	MG010	1	22	0-4: Sand w/ gravel, fine to coarse grained, very loose, 10% gravel	brownish gray	none	none		
				4-22: sandy Gravel, 35% sand, gravel is 0.5-2cm in dia., subround to round, loose	gray to dark gray	trace wood debris	none	corbiculas	

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**SAMPLE LOG**

Date: 11/28/2007

logged by:

J. Moore

Page: 1

Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
9:09	G642	2	24	0-1: discontinuous Silt. 1-24: Sand, fine to medium, subangular, poorly sorted, trace silt.	brown gray	trace plant material few wood fragments	none none	one corbicula
9:27	G644	1	26	0-1: Silt, trace fine sand. 1-22: Silt, trace fine sand, no plasticity.	brown gray	none none	none none	light sheen
				22-26: Sand w/ silt, up to 20% silt, sand is fine to medium grain, subangular, poorly sorted.	gray	none	none	
9:47	G646	1	23	0-1: discontinuous fine Silt, trace fine gravel and coarse sand.	brown	trace leaf litter	none	
				1-23: Sand w/ silt, up to 10% silt, sand is fine to medium, subangular, trace medium rounded gravel.	gray	few wood fragments	wood has creosote odor	
10:03	G647	1	22	0-1: Silt, trace fine rounded gravel. 1-5: Silt, trace medium sand, subrounded.	brown gray	none none	none none	"blackjack" sand blast grit present
				5-22: Sand w/ gravel, up to 10% fine, subrounded gravel, sand is medium to coarse, subangular, trace silt.	gray	trace wood fragments	none	
10:30	G649	1	26	0-1: Silt, trace fine sand. 1-10: Silt, trace fine sand, no plasticity.	brown gray	trace plant fragments none	none none	
				10-26: Sand w/ silt, up to 10% silt, sand is fine to medium, subangular.	gray	few wood fragments	none	florettes of sheen

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Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
10:54	G650	1	25	Sand w/ gravel, up to 25% fine to medium subrounded gravel, sand is fine to coarse, subangular, poorly sorted.	brown to gray	tar nodules, trace wood fragments	none	
12:01	G652	1	25	Discontinuous Silt on surface. 0-25: Sand w/ silt, up to 10% silt, sand is fine to medium, subangular, trace medium subrounded gravel.	brown brown to gray	none none	none none	
12:56	G655	1	26	0-1: Silt. 1-4: Silt, trace fine sand.	brown gray	trace leaf none	none none	
				4-26: Sand w/ silt, up to 10% silt, sand is fine to medium, subangular, poorly sorted.	gray		coal tar	moderate sheen
13:25	G657	1	26	0-1: Silt. 1-26: Sand w/ silt, up to 5% silt, sand is fine to medium, subangular, poorly sorted.	brown gray	trace leaf litter none	none none	
13:50	G658	1	21	Discontinuous Silt on surface. 0-21: Sand, fine to coarse, subangular, trace fine subrounded gravel, trace silt.	brown gray	none none	none none	
14:10	G659-1	1	26	Discontinuous Silt on surface. 0-26: Sand, fine to medium, subangular, trace fine subrounded gravel, trace silt.	brown brown to gray	none none	none none	
14:40	G659-2	1	22	Discontinuous Silt on surface. 0-22: Sand, fine to medium, subangular, trace fine subrounded gravel, trace silt.	brown brown to gray	none none	none none	1 corbicula

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SAMPLE LOG

Date: 11/29/2007

logged by:

J. Reeve

Page: 1

Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
8:44	G664	1	30	0-1: Silt, flocculant, trace sand. 1-30: clayey Silt, soft to firm, moist, low plasticity.	light brown light gray	none none	none tar	light sheen in sample, slick in river when sample came to surface
9:41	G666	2	28	0-2: Sand w/ clay, fine to medium grained, very loose, 15% clay, clay is in balls at the surface.	grayish brown	none	none	
				2-28: Sand, fine to medium grained, very loose to loose.	gray	none	none	corbicula
10:15	G667	2	30	0-1: Silty Sand, fine to medium grained, 15% organic-rich silt, very loose.	light grayish brown	none	none	
				1-30: Sand, medium to coarse grained, loose to dense, occasional inclusions of gray clay.	dark gray	trace wood	none	
10:45	G669	1	28	Same as above except 1-28cm layer has no clay, trace silt, dense.	--	--	--	
11:14	G668	1	30	0-4: Silt, very wet, very soft, flocculant.	light brown to gray	none	none	
				4-6: Sand, medium grained, very loose.	dark gray	none	none	
				6-30: Silt, very soft to soft, wet, slightly micaceous, no plasticity.	gray	none	none	

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SAMPLE LOG

Date: 11/29/2007

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Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
11:42	G676	1	30	0-1: fine flocculant Silt. 1-30: Silt w/ sand, 10% fine sand, soft, moist, low plasticity.	brown light gray	none none	none none	
13:26	G673	1	30	Same as above, except 20% sand.	--	--	--	
13:56	G677	1	30	0-1: fine flocculant Silt. 1-30: Sandy silt, 30-40% medium sand with occasional pockets of clean sand, soft to firm, moist, low plasticity.	light brown medium gray	none none	none faint TPH	no sheen
14:22	G681	1	29	0-1: fine flocculant Silt. 1-29: sandy Silt, 20-30% medium grained sand, soft to firm, moist, low plasticity.	light brown gray	none none	none none	
14:53	G682	1	30	0-1: fine flocculant Silt. 1-30: Silt w/ sand, 10-20% fine to very fine sand, very to soft, wet, no plasticity.	light brown light gray	none none	none none	
15:21	G680	1	30	Same as above except very fine sand, very soft.	--	--	--	
15:40	G686	1	30	Same as above except the following:	--	1 20cm long wood piece in jaws	--	
15:58	G691	1	30	Same as above except the following:	--	no wood	--	

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**SAMPLE LOG**

Date: 11/29/2007

logged by:

J. Moore

Page: 1

Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
10:01	G788	1	23	Sand w/ silt, up to 10% silt, sand is fine to medium, subangular, poorly sorted.	brown to gray	trace wood fragments and plant material	none	2 snails on surface
10:49	UG12B	1	29	0-1: Silt.	brown	trace plant fragments, rootlets	none	
				1-29: Silt w/ sand, up to 10% fine sand, no plasticity.	gray	none	none	
11:15	UG11A	2	25	0-0.5: Silt. 0.5-25: Sand w/ silt, up to 15% silt, sand is fine.	brown gray	trace rootlets trace rootlets to 5cm	none none	light sheen (photos 109-190 & 109-91)
11:37	UG11B	1	26	0-0.5: Silt. 0.5-26: Sand w/ silt, up to 15% silt, sand is fine.	brown gray	abundant leaf litter trace rootlets to 5cm	none none	no sheen no sheen
11:57	UG11C	1	24	0-1: Sand, fine. 1-24: Sand w/ silt, up to 10% silt, sand is fine.	brown gray	trace leaf litter few leaf litter and wood fragments	none none	
12:42	UG06B	1	26	0-1.5: Silt. 1.5-26: Silt w/ sand, up to 20% fine sand, low plasticity.	brown gray	none trace rootlets to 5cm	none none	1 lamprey ammocete (12cm length)
13:05	UG04A	1	26	0-1: Silt. 1-8: Silt, trace fine sand, low plasticity.	brown gray	trace rootlets trace plant matter	none none	
				8-26: Sand, fine to medium, subangular, trace silt.	gray	none	none	

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**SAMPLE LOG**

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Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
13:25	UG04B	1	25	0-1: Silt. 1-25: silty Sand, up to 30% silt, sand is fine.	brown gray	none trace plant material	none none	
13:43	UG04C	1	26	0-1: Silt. 1-26: Sand w/ silt, up to 20% silt, sand is fine.	brown gray	none trace plant material	none none	
14:12	UG03B	1	26	0-0.5: Silt. 0.5-1.5: Silt, trace fine sand.	brown gray	trace leaf litter trace leaf litter	none none	
				1.5-26: Sand w/ silt, up to 15% silt, sand is fine to medium, subangular.	gray	none	none	
14:33	UG02C	1	29	0-2: Silt. 2-29: Silt w/ sand, up to 15% fine sand.	brown gray	none none	none none	
14:58	UG02D	1	30	0-2: Silt. 2-30: silty Sand, up to 40% silt, sand is very fine grained.	brown gray	none none	none none	
15:21	UG02E-1	1	28	0-2: Silt. 2-28: sandy Silt, up to 30% fine sand, low plasticity.	brown gray	none trace plant material	none none	
15:41	UG02E-2	1	27	Same as UG02E01	--	--	--	
16:05	UG02F	1	28	0-2: Silt. 2-28: Silt w/ sand, up to 15% fine sand, medium plasticity.	brown gray	none none	none none	

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SAMPLE LOG

Date: 11/30/2007

logged by:

J. Reeve

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Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
9:33	G651	1	30	0-1: sandy Silt, organic-rich.	light brownish gray	none	none	
				1-30: Sand w/ silt, 15% silt, fine to medium grained, very loose to loose.	dark gray	abundant wood debris	none	large branches in jaws
10:16	G687	2	30	0-1: fine flocculant Silt. 1-30: Silt w/ sand, 15% fine sand, very soft, wet, no plasticity.	light brown light gray	none none	none none	
10:36	G697	1	30	0-1: fine flocculant Silt. 1-30: Silt w/ sand, 15% fine sand, very soft, wet, no plasticity.	light brown light gray	none none	none none	
10:56	G696	1	30	Same as above	--	--	--	
11:15	G706	1	30	0-1: fine flocculant Silt. 1-30: Silt w/ sand, 10% very fine sand, very soft, very wet, no plasticity	light brown light gray	none trace rootlets	none none	trace florettes
11:37	G705	1	28	0-1: fine flocculant Silt. 1-28: sandy Silt, 40% very fine to fine sand, soft to firm, moist, very low plasticity.	brown gray	none none	none none	
12:23	G699	1	29	Same as G706	--	--	--	
12:42	G710	1	30	Same as G605, except sand is fine to medium	--	--	--	
12:57	G715	1	30	0-1: fine flocculant Silt. 1-9: Silt w/ sand, 10% very fine sand, very soft, very wet, no plasticity.	light brown light gray	none none	none none	
				9-30: Sand w/ silt, 15% silt, fine to coarse grained, loose to dense.	medium to dark gray	sawdust and wood debris	faint indistinct	trace florettes

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**SAMPLE LOG**

Date: 11/30/2007

logged by:

J. Moore

Page: 1

Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
11:18	G735	1	28	0-2: Silt.	brown	fishing line	none	
				2-28: Silt, trace fine sand, no plasticity.	gray	few plant material at 20-28cm	none	
11:39	G729	1	29	0-2: Silt.	brown	none	none	shrimp on surface
				2-29: Silt, trace fine sand, no plasticity.	gray	trace plant material	none	
11:56	G727	1	28	0-2: Silt.	brown	trace plant material	none	
				2-28: Silt, trace fine sand, no plasticity.	gray	none	none	
12:10	G725	1	27	0-2: Silt.	brown	trace plant material	none	
				2-27: Silt, trace fine sand, no plasticity.	gray	few plant material	none	
12:27	G720	1	25	0-1: Silt.	brown	none	none	
				1-4: Silt, no plasticity.	gray	none	none	
				4-25: Sand, fine to medium, trace silt, subrounded.	gray	few large wood fragments	none	florettes of sheen

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**SAMPLE LOG**

**Date:** 12/3/2007      **logged by:** J. Reeve      **Page: 1**

Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
9:58	MG003	7	24	Sand, trace silt, medium to coarse grained, very loose.	medium yellowish brown	sticks and rip-rap	none	
11:15	MG004	5	21	0-3: sandy Silt, 40% fine sand, no plasticity.	light brown	none	none	
				3-16: Sand w/ silt, 10% silt, fine to medium grained, very loose to loose.	medium brown to gray	occasional wood debris	none	
				16-21: sandy Gravel, 50% medium sand, 1-2cm gravel, occasional clasts to 6cm, very loose.	gray	wood debris	none	wood and gravel in jaws
13:16	G641	5	29	0-10: Silt w/ sand, 20% medium grained sand, very soft, very wet, no plasticity.	medium brown	trace rootlets	none	
				10-24: Sand, medium to coarse grained, loose to dense.	dark gray	trace wood	moderately strong creosote	florettes
14:06	G660	4	23	0-2: silty Sand, 35% silt, medium to coarse grained, very loose.	light brownish gray	none	none	
				2-23: Sand, medium to coarse grained, very loose to loose, trace gravel.	yellowish brown	trace wood debris	none	wood in jaws

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**SAMPLE LOG**

Date:	12/4/2007		logged by:	J. Reeve			Page: 1	
9:29	G692-2	1	28	0-1: fine flocculant Silt. 1-30: Silt, wet, low plasticity.	brown light gray	none isolated wood fragments	none none	trace plant material none
10:00	G716	1	30	0-1: fine flocculant Silt. 1-30: Silt w/ sand, 10% very fine sand, very soft, wet, no plasticity.	brown gray	none trace rootlets	none none	
10:19	G717	1	29	0-1: fine flocculant Silt. 1-29: Silt, wet, no plasticity.	brown gray	trace rootlets none	none none	
10:44	G719	1	30	0-1: fine flocculant Silt. 1-30: Silt w/ sand, <30% very fine sand, wet, no plasticity.	brown gray	trace rootlets none	none none	
11:12	G738	1	24	0-1: silty Sand, fine to medium grained. 1-10: Sand, medium to coarse grained, loose.	brown dark gray	none trace wood fragments	none none	flounder/sole in grab florettes of sheen
				10-24: clayey Silt, firm to stiff, medium plasticity, isolated, discontinuous sand lenses. soft, low plasticity.	gray	none	slight TPH	
12:41	G742	1	28	0-1: fine flocculant Silt. 1-28: Silt w/ sand, 10% very fine sand, soft, moist, low plasticity	brown gray	none none	none none	
13:03	G743	1	22	0-2: silty Sand, 30% silt, medium to coarse sand, subangular.	brown	none	none	

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SAMPLE LOG

Date: 12/4/2007 logged by: J. Reeve Page: 2

Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
				2-22: Sand w/ gravel, 15% fine gravel, sand is coarse grained, loose, trace silt.	gray	trace wood debris	none	1 large cobble.
13:27	G748	1	29	0-1: fine flocculant Silt. 1-20: sandy Silt, 30% fine to medium sand, very soft, very wet, no plasticity.	brown gray	trace plant debris trace plant debris	none none	
				20-29: silt Sand, 40% silt, fine to medium grained, loose, gradational contact.	gray	none	none	
13:52	G753	1	29	0-1: fine flocculant Silt. 1-29: Silt w/ sand, 25% fine sand, very soft, wet, no plasticity.	brown dark greenish gray	none none	none none	
14:17	G754	1	30	0-1: fine flocculant Silt. 1-30: Silt w/ sand, 10% very fine sand, very wet, no plasticity.	brown gray	none none	none none	
14:38	G759-1	1	29	0-3: fine flocculant Silt. 3-29: sandy Silt, 40% sand, fine grained, soft,	brown gray	none none fragments	none none	
15:18	G761	1	30	0-1: fine flocculant Silt. 1-30: Silt w/ sand, 10% very fine sand, very wet, no plasticity.	brown gray	none none	none none	
15:42	G764	1	27	0-1: silty Sand, 25% silt, fine sand. 1-4: silt w/ sand, 15% fine sand, very soft, wet, no plasticity.	brown gray to brown	none none	none none	
				4-27: Sand, trace coarse grained gravel sand is fine grained, loose.	dark gray	few wood fragments	none	
16:04	G765	1	30	0-1: fine flocculant Silt. 1-30: Silt w/ sand, 15% very fine sand, very soft, wet, low plasticity.	brown gray	none none	none none	

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**SAMPLE LOG**

**Date:** 12/5/2007      **logged by:** J. Reeve      **Page: 1**

Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
9:37	MG008	4	28	0-2: silt Sand, 30% organic-rich silt, fine grained, loose.	light brown	none	none	few snails on surface
				2-28: Sand w/ silt, fine to medium grained, very loose to loose, isolated clay pockets, trace fine gravel.	brown	trace wood	none	
10:10	G613	1	30	0-1: Silt, very soft. 1-30: Silt, very soft, very wet, no plasticity.	light brown light gray	none none	none none	
11:57	G760	2	29	0-2: Sand w/ silt, 20% silt, very fine to fine grained, very loose, micaceous.	medium brown	none	none	pockets of sheen on surface
				2-10: leaf debris (no sediment).  soft, very wet, no plasticity.	brown	leaf  litter near top	none	
14:04	G776	10	22	0-1: silty Sand, 25% silt, very fine grained sand, very loose, micaceous.	brownish gray	none	none	pockets of sheen upon homogenization
				1-10: Sand w/ silt, 15% silt, fine to medium grained, loose, micaceous.	greenish gray	occasional wood	none	
				10-22: Sand, fine to medium grained, loose to dense, trace silt.	dark gray	occasional wood	none	
14:55	G777	3	21	0-21: sandy Gravel, 45% medium to coarse sand, gravel is fine to 6cm cobble, subrounded.	brownish gray	none	none	2 corbicula

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**SAMPLE LOG**

Date: 12/5/2007 logged by: J. Reeve Page: 2

Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
15:41	G778	1	22	0-22: Sand w/ gravel, 25% gravel is fine to 4cm cobbles with one 9cm cobble, subround to subangular, sand is fine to medium, dense, with isolated silt pockets and trace silt throughout.	brownish gray	1 plastic bag, floss, and large sticks	none	sticks in jaws
16:01	G779	1	23	0-2: sandy Silt, 40% very fine sand, flocculant, very soft.	light brown	none	none	1 corbicula
				2-5: Gravel w/ sand, 20% sand, gravel is coarse	dark gray medium brown	none processed wood	none	pockets of sheen upon
16:37	G780	1	30	0-2: Sand w/ silt, 10% very fine to fine sand, very loose.	light brown	none	none	
				2-10: silty Sand, 30% silt, very fine to fine grained sand.	medium brown	leaf debris	none	
				10-30: sandy Silt, 50% very fine sand, very soft, wet, no plasticity, pockets of clay.	gray	none	none	
17:04	G781	2	30	0-2: Sand as above. 2-10: silty Sand as above. 10-30: sandy Silt as above.	-- -- gray	-- plastic bottle and canvas bag	-- -- --	

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**SAMPLE LOG**

**Date:** 12/6/2007      **logged by:** J. Reeve      **Page: 1**

Time	Station	Rep	Pen (cm)	Texture	Color	Debris	Odor	Sample Quality/Comments
9:00	G768	2	29	0-2: fine flocculant Silt. 2-29: sandy Silt, 25-40% very fine to fine sand, very soft to soft, low plasticity, stiffness and sand increasing with depth.	light brown medium brown	none none	none none	
9:24	G770	1	30	0-1: Sand w/ silt, 15% fine sand. 1-3: fine flocculant Silt. 3-30: Silt w/ sand, 10% very fine sand, very soft, low plasticity.	grayish brown light brown gray	oat seeds none none	none none none	trace florettes upon compositing
9:57	G771	1	23	0-2: flocculant Silt w/ uneven fill of fine sand 2-15: silty Sand, 40% silt, fine sand, very loose.	medium brown medium gray	none trace wood	none faint	light sheen
12:13	G783	1	26	0-7: gravelly Sand, medium to coarse grained angular to subangular gravel, fine to medium sand, very loose. 7-14: Clay w/ gravel, medium to coarse gravel, clay is soft, medium plasticity. 14-26: sandy Gravel, 40% sand, gravel is angular to subangular to subrounded with one 5cm well-rounded cobble, very loose.	brownish gray light gray dark gray	isolated glass pieces none none	none none moderate oil	moderate to heavy sheen

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