

APPENDIX L
Field Procedures

APPENDIX L FIELD PROGRAM

General

The former Mill A facility Marine Area RI field program was conducted in accordance with the Marine Area Remedial Investigation Sampling and Analysis Plan (Marine Area RI SAP; GeoEngineers 2014a), the Remedial Investigation/Feasibility Study Work Plan (RI/FS Work Plan) Addendum No. 1 (GeoEngineers 2016), and the RI/FS Work Plan Addendum No. 4 (GeoEngineers 2018a). The field program included the collection of surface and subsurface sediment samples for field screening, chemical analysis, and bioassay testing. GeoEngineers collected the RI sediment samples at 61 locations (locations MAF-01 through MAF-61) during three field mobilizations: October and November 2015 (locations MAF-01 through MAF-36); September 2016 (locations MAF-37 through MAF-54); and November 2018 (locations MAF-55 through MAF-61).

Figures 10 and 11 shows the Marine Area RI sediment sampling locations. Exploration logs from the Marine Area RI are presented in Figures L-1 through L-95. The horizontal coordinates and sampling depths for the Marine Area RI sampling locations are summarized in Tables L-1 and L-2 for surface sediment and sediment core samples, respectively.

Sample Collection Methods

The RI surface sediment samples were obtained using a power grab sampler. Subsurface sediment core samples were obtained using vibracoring or sonic drilling methods. Intertidal/beach area samples were obtained using hand tools. In offshore areas, sediment sampling tools were deployed from a marine vessel. The intertidal/beach area was accessed by foot from the uplands area. Surface sediment samples were obtained from the upper 10 centimeters (cm) of sediment. Subsurface sediment samples were obtained by advancing continuous cores through the sediment to depths ranging from 3 to 25 feet below the mudline elevation.

The sediment recovered in each surface and subsurface sediment sample was visually classified in accordance with ASTM International (ASTM) D 2488 methods and the Unified Soil Classification System (ASTM D 2487). Sediment samples were observed and field-screened for evidence of potential contamination and for the presence or absence of wood debris or other debris. If wood debris was observed, the GeoEngineers field scientist or engineer recorded the following information on the exploration log and in photographs: the type of wood debris present (i.e., sawdust, bark, chips, twigs, fibers, etc.); the estimated volume percent of wood debris; and the depth interval in which the wood debris was observed. Field observation of sediment samples included visual inspection for staining or discoloration that could be indicative of contamination. Field screening of sediment samples consisted of water sheen testing. Field observation and field screening procedures are discussed below. Field observations and the results of field screening at each RI sediment sampling location are included on the attached exploration logs.

Surface Sediment Sample Collection and Processing

Surface sediment samples were collected using a power grab sampler deployed from a marine vessel. Sediment sampling tools and equipment were decontaminated and inspected before sampling. The procedures for collecting surface sediment samples by marine vessel were as follows:

1. Maneuver the sampling vessel to the proposed sampling location, steady the vessel, and verify location control using a Global Positioning System (GPS) device.
2. Record the sampling location.
3. Prepare the power grab sampler for deployment.
4. Lower the sampler through the water column to the mudline at a rate of approximately 1 foot per second. Verify that the cable attached to the sampler is plumb (i.e., vertical).
5. Record the sampling time and the depth to mudline below the water surface using the lead-line
6. Activate the sampler and raise it through the water column to the vessel at a rate of approximately 1 foot per second.
7. Place the sampler on the work surface of the vessel. Avoid jostling the sampler and/or disturbing the sample.
8. Examine the sample for the following sediment acceptance criteria:
 - The jaws of the power grab sampler were closed;
 - Sediment was below the top of sampler;
 - Minimal observed leakage and sample disturbance; and
 - The target penetration depth was achieved.

If any of the sediment acceptance criteria are not met, reject the sample and attempt to collect another sample at the same location. If the sediment acceptance criteria cannot be met after four attempts, contact the Project Manager to discuss possible alternate sampling locations.

9. Siphon off the water overlying the surface of the sediment while taking care to not disturb the surface of the sediment.
10. Collect sediment sample aliquots for porewater analysis (ammonia, sulfide, and tributyltin ion) immediately after siphoning off the overlying water and prior to any additional observation, testing, photography, classification or homogenization of the sample material. Collect the sample aliquots by carefully removing relatively undisturbed sediment directly from the sampler with a decontaminated stainless-steel spoon and place the sediment directly into a sample jar. Take care during sample collection to minimize aeration and sample disturbance. Immediately fill the sample jar completely with sea water to eliminate headspace, seal the lid on the filled sample jar, and place the jar in a cooler used solely for porewater samples. Use ice to maintain a temperature of 2 to 6 degrees Celsius in the sample cooler during sample storage and transport to the analytical laboratory.
11. Visually classify sediment in accordance with ASTM D 2488 methods and the Unified Soil Classification System (ASTM D 2487) and record on the field form. Observe and field-screen sediment samples for evidence of potential contamination and record findings on the field form. Also record qualitative descriptive parameters such as the type and abundance of any biota observed and the type and estimated volume percent of wood debris present. Fine sawdust generated by sawmills is often indistinguishable from other sediment, so take care to attempt to identify finer fractions of wood debris in samples.
12. Photograph the sediment sample. Include in the camera's field of view a sheet of paper or whiteboard with the sample identification (ID) written in large print; use care not to touch the sediment with the

paper/whiteboard or with gloved hands that have contacted whiteboards, pens, whiteboard ink, or whiteboard erasers.

13. To avoid cross-contamination, use a clean hands/dirty hands approach to the use of whiteboard pens and erasers during sample collection activities where subsequent chemical analyses will be performed on the samples. When handling samples to be submitted for chemical analysis, do not wear gloves that have been in contact with whiteboard pens or erasers.
14. Collect the upper 10 cm of sediment from the sampler using a decontaminated stainless-steel spoon. Do not collect sediment that has been in contact with the sides of the sampler.
15. Place the sediment in a decontaminated stainless-steel homogenization bowl. Cover the stainless-steel with a new sheet of aluminum foil and dispose after use. If sufficient sample volume was not collected, repeat the sampling process until sufficient volume is collected. Successive sampler deployments should be within an approximate 10-foot radius of the initial deployment.
16. For sediment samples where volatilization of sediment is not predicted under field conditions, homogenize the sediment in the stainless-steel bowl using the stainless-steel spoon until the sediment appears generally uniform in color and texture. Record on the field form that the sample was homogenized.
17. For sediment samples where volatilization of sediment is predicted (i.e., sulfides), place samples immediately and directly into sample jars without homogenization and immediately seal the sample jars. Record on the field form that the sample was not homogenized.
18. Distribute the sample to designated sample jars and ensure that the sample jars are properly labeled, and the lids are tightly secured.
19. Clean the exterior of the sample jars and immediately place them in a cooler containing ice.
20. After sample jars are filled and stored in a cooler, place extra, unused sediment from sample processing in a drum for temporary storage and subsequent transfer to an appropriate waste handling facility.
21. Decontaminate reusable sampling equipment.
22. Double-check that field sampling forms are filled out.

Subsurface Sediment Sample Collection and Processing

Subsurface sediment samples were collected using vibracoring and sonic drilling methods. The sediment cores were collected from a marine vessel. The coring utilized a 3- to 4-inch-diameter core barrel containing dedicated (disposable) clear CAB (butryn) liners. The procedures for collecting subsurface sediment samples by marine vessel were as follows:

1. Maneuver the sampling vessel to the proposed sampling location, steady the vessel, and verify location control using a GPS device.
2. Record the sampling location.
3. Record the sampling time and the depth to mudline below the water surface using the lead-line.
4. Drive the core barrel into the sediment and collect a continuous sediment core to the target depth or until refusal.
5. For each core interval, record the penetration depth on the field form.

6. Extract the core barrel, remove and cap the liner from the core barrel, and examine the sediment core relative to the following acceptance criteria:
 - Intact material at the top of the core tube with overlying water;
 - A minimum of 75 percent recovery in the core/liner compaction (compression) not greater than 25 percent;
 - Intact core tube without obstructions or blockage; and
 - Achievement of the target penetration depth.

If any of the sediment acceptance criteria are not met, reject the sample and attempt to collect another sample at the same location. If the sediment acceptance criteria cannot be met after four attempts, notify the Project Manager to discuss possible alternative sampling locations.

7. If the core meets the acceptance criteria, proceed with core processing. If the cores will not be processed immediately after collection, seal and label the cores and place them in a container with ice or a refrigerated space. Maintain the cores at a temperature of 2 to 6 degrees Celsius during storage prior to processing, both onboard the sampling vessel and during shipment to any core processing facility.
8. Begin core processing by opening the core with a decontaminated core-opening device.
9. Visually classify sediment in accordance with ASTM D 2488 methods and the Unified Soil Classification System (ASTM D 2487) and record on the field form. Observe and field-screen sediment samples for evidence of potential contamination and record findings on the field form. Also record qualitative descriptive parameters such as the type and abundance of any biota observed and the type and estimated volume percent of wood debris present, along with the corresponding depth intervals. Fine sawdust generated by sawmills is often indistinguishable from other sediment, so take care to attempt to identify finer fractions of wood debris in samples.
10. Photograph the sediment core sample. Include in the camera's field of view a sheet of paper or whiteboard with the sample ID written in large print; use care not to touch the sediment with the paper/whiteboard or with gloved hands that have contacted whiteboards, pens, whiteboard ink, or whiteboard erasers. Several photographs will likely be necessary to document the entire length of the core sample. Include the depth interval on the paper/whiteboard photographed with each portion of the core sample.
11. To avoid cross-contamination, use a clean hands/dirty hands approach to the use of whiteboard pens and erasers during sample collection activities where subsequent chemical analyses will be performed on the samples. When handling samples to be submitted for chemical analysis, do not wear gloves that have been in contact with whiteboard pens or erasers.
12. Collect sediment from the core barrel liner using a decontaminated stainless-steel spoon. Do not collect sediment that has been in contact with the core-opening device or the sides of the core barrel liner. Place the sediment into a decontaminated stainless-steel homogenization bowl. Cover the stainless-steel bowl with a new sheet of aluminum foil and dispose after use.
13. For sediment samples where volatilization of sediment is not predicted under field conditions, homogenize the sediment in the stainless-steel bowl using the stainless-steel spoon until the sediment appears generally uniform in color and texture. Record on the field form that the sample was homogenized.

14. For sediment samples where volatilization of sediment is predicted (i.e., sulfides), place samples immediately and directly into sample jars without homogenization and immediately seal the sample jars. Record on the field form that the sample was not homogenized.
15. Distribute the sample to designated sample jars and ensure that the sample jars are properly labeled, and the lids are tightly secured.
16. Clean the exterior of the sample jars and immediately place them in a cooler containing ice.
17. After sample jars are filled and stored in a cooler, place extra, unused sediment from sample processing in a drum for temporary storage and subsequent transfer to an appropriate waste handling facility.
18. Decontaminate reusable sampling equipment.
19. Double-check that field sampling forms are filled out.

If sufficient sample volume cannot be obtained from a particular target depth interval, attempt to obtain an adjacent sediment core within a 10-foot radius of the original core. If necessary, make at least three attempts to obtain sufficient sample volume at each sampling location. If sufficient sample volume cannot be obtained, contact the Project Manager to discuss possible alternate sampling locations.

Intertidal/Beach Area Sediment Sampling

Intertidal/beach area sediment samples were collected using hand tools (i.e., stainless steel hand auger and/or shovel). The procedures for collecting intertidal/beach area sediment samples access from the Upland Area by foot were as follows:

1. Locate the target intertidal/beach area sampling station using a GPS device.
2. Record the actual coordinates of the sampling location.
3. Advance the decontaminated sampling device (stainless-steel hand auger or spoon) into the sediment to the target depth or until refusal.
4. Place the sediment from the target sample interval into a decontaminated stainless-steel homogenization bowl.
5. Visually classify sediment in accordance with ASTM D 2488 methods and the Unified Soil Classification System (ASTM D 2487) and record on the field form. Observe and field-screen sediment samples for evidence of potential contamination and record findings on the field form. Also record qualitative descriptive parameters such as the type and abundance of any biota observed and the type and estimated volume percent of wood debris present, along with the corresponding depth intervals. Fine sawdust generated by sawmills is often indistinguishable from other sediment, so take care to attempt to identify finer fractions of wood debris in samples.
6. Photograph the sediment sample. Include in the camera's field of view a sheet of paper or whiteboard with the sample ID written in large print; use care not to touch the sediment with the paper/whiteboard or with gloved hands that have contacted whiteboards, pens, whiteboard ink, or whiteboard erasers. To avoid cross-contamination, use a clean hands/dirty hands approach to the use of whiteboard pens and erasers during sample collection activities where subsequent chemical analyses will be performed on the samples. When handling samples to be submitted for chemical analysis, do not wear gloves that have been in contact with whiteboard pens or erasers.

7. For sediment samples where volatilization of sediment is not predicted under field conditions, homogenize the sediment in the stainless-steel bowl using the stainless-steel spoon until the sediment appears generally uniform in color and texture. Record on the field form that the sample was homogenized.
8. For sediment samples where volatilization of sediment is predicted (i.e., sulfides), place samples immediately and directly into sample jars without homogenization and immediately seal the sample jars. Record on the field form that the sample was not homogenized.
9. Distribute the sample to designated sample jars and ensure that the sample jars are properly labeled, and the lids are tightly secured.
10. Clean the exterior of the sample jars and immediately place them in a cooler containing ice.
11. Decontaminate reusable sampling equipment.
12. Double-check that field sampling forms are filled out.

Positioning

Sampling locations (horizontal coordinates) were measured using a GPS device with 2-meter accuracy. The sampling locations were recorded in units of U.S. Survey Feet referenced to the North American Datum of 1983 (NAD83)/Washington State Plane North coordinate system.

Elevations of the mudline at each sampling location were calculated based on the measured water depth (i.e., depth to mudline) and the tidal elevation at the time of sampling. Depths below mudline for the core samples were measured directly based on the penetration depth of the core barrel, typically to within approximately 0.1 foot. Elevations were referenced to the mean lower low water (MLLW) elevation.

Sampling Equipment Decontamination Procedures

Sediment samples were collected using grab sampling equipment, coring/drilling equipment, and hand tools including stainless-steel spoons and stainless-steel mixing bowls. Reusable sampling equipment that was used to process the samples and that contacted sediment (e.g., spoons, bowls, measuring devices, etc.) was decontaminated before each use. Decontamination procedures for reusable sampling equipment consisted of the following:

- Rinsing with sea water to dislodge and remove sediment;
- Washing with a scrub brush and an aqueous solution of non-phosphate detergent (e.g., Liqui-Nox) and distilled water;
- Rinsing with deionized water; and
- Wrapping or covering the decontaminated equipment with aluminum foil (note: only decontaminated equipment that wasn't immediately reused was wrapped/covered with aluminum foil).

Field personnel limited potential cross-contamination of samples by using new nitrile or vinyl gloves between sampling locations.

Field Observation and Field Screening

Sediment samples were observed and field-screened for evidence of potential contamination. Field observations and field-screening results were recorded on field forms. Field observations consisted of visual and olfactory observations. Field screening consisted of water sheen testing.

Visual and Olfactory Observations

The sediment samples were observed for the presence or absence of wood debris or other debris, discoloration/staining, and odors that may be indicative of contamination.

Water Sheen Testing

Water sheen testing is a qualitative field screening method that can help identify the presence or absence of petroleum hydrocarbons. A portion of each sediment sample (approximately a tablespoon) was placed in a small pan containing distilled water. The water surface was then observed for signs of sheen. The following sheen classifications were used:

Classification	Identifier	Description
No Sheen	(NS)	No visible sheen on the water surface
Slight Sheen	(SS)	Light, colorless, dull sheen; spread is irregular, not rapid; sheen dissipates rapidly
Moderate Sheen	(MS)	Light to heavy sheen; may have some color/iridescence; spread is irregular to flowing, may be rapid; few remaining areas of no sheen on the water surface
Heavy Sheen	(HS)	Heavy sheen with color/iridescence; spread is rapid; entire water surface may be covered with sheen

Disposition of Incidental Waste

Incidental waste generated during sampling activities included items such as disposable gloves, plastic sheeting, sample core barrel liners, paper towels, and similar expended and discarded field supplies. These materials were considered *de minimis* and were disposed of in a local trash receptacle or county disposal facility. Sediment obtained during this investigation was considered contaminated, and was appropriately handled, transported, and disposed of at a permitted waste handling facility.

Sample Handling and Custody

Sample Containers and Labeling

Samples were placed in appropriate laboratory-prepared containers (glass sample jars). Sample containers and preservatives are listed in Table 7 of the Marine Area RI SAP.

Sample containers were labeled with the following information at the time of sample collection:

- Project name and number;
- Type of sample preservative used (where applicable);

- Sample ID, which included a reference to the sampling date and the sample collection depth below the mudline; and
- Date and time of sample collection.

Sample Storage

Samples were placed in a cooler containing ice after they were collected. Samples were maintained at a temperature of 2 to 6 degrees Celsius. Sample holding times (see Table 7 of the Marine Area RI SAP) were observed during sample storage.

Sample Shipment

Samples were transported and delivered to the analytical laboratory in the sample coolers. The samples were transported by field personnel, laboratory personnel, or courier service. The sample coolers were secured using clear plastic tape and custody seals.

Chain-of-Custody Records

A Chain of Custody (COC) form was completed for each group of samples shipped to the analytical laboratory. Information recorded on the COC form included:

- Project name and number;
- Sample IDs;
- Date and time of sampling;
- Sample matrix, preservative, and number of containers for each sample;
- Analyses to be performed;
- Names of sampling personnel;
- Project manager name and contact information including phone number; and
- Shipping information including shipping container number, if applicable.

The original COC form was signed by a member of the field team. Field personnel retained copies and placed the original and remaining copies in a plastic bag. The plastic bag containing the COC form was placed in the sample cooler before sealing the cooler for transport to the laboratory.

REFERENCES

GeoEngineers, Inc. 2014a, "Marine Area Remedial Investigation Sampling and Analysis Plan, Weyerhaeuser Mill A Former, Everett, Washington, Ecology Agreed Order No. DE 8979," prepared for the Washington State Department of Ecology on Behalf of Port of Everett, Weyerhaeuser Company and Washington State Department of Natural Resources, October 16, 2014. (Attachment 2 to the RI/FS Work Plan.)

GeoEngineers, Inc. 2014b, "Dredged Material Characterization Sampling and Analysis Plan, Weyerhaeuser Mill A Former Cleanup Site, Interim Action Dredging Project, Everett, Washington." Prepared for the Port of Everett, December 16, 2014.

GeoEngineers, Inc. 2016, “Work Plan Addendum No. 1 for Follow-up Sample Collection and Testing at the Former Mill A Marine Area, Everett, Washington,” prepared for the Washington State Department of Ecology, GEI File No. 0676-020-04, September 1, 2016.

GeoEngineers, Inc. 2018a, “Work Plan Addendum No. 4 for Additional Marine Area Sediment Sample Collection and Analysis at the Weyerhaeuser Mill A Former Site, Everett, Washington.” Memorandum to Andy Kallus and Peter Adolphson, Washington State Department of Ecology, from Iain H. Wingard and John M. Herzog, GeoEngineers. Prepared on behalf of the Port of Everett, September 5, 2018.

GeoEngineers, Inc. 2018b, “FINAL Dredged Material Characterization Sampling and Analysis Plan, South Terminal Maintenance Dredge Project, Weyerhaeuser Mill A Former Site, Everett, Washington.” Prepared for the Dredged Material Management Office and Washington State Department of Ecology on behalf of Port of Everett, October 12, 2018.

Attachments:

Table L-1. Surface Sediment Sample Collection Summary

Table L-2. Sediment Core Sample Collection Summary

Figure L-1. Key to Exploration Logs

Figures L-2 through L-99. Log of Explorations

Table L-1
Surface Sediment Sample Collection Summary
Weyerhaeuser Mill A Former
Everett, Washington

Sample Location ¹	Sample Identification	Date Sampled	Sample Coordinates ² NAD83/Washington State Plane North (US Survey Feet)		Water Surface Elevation ³ (ft MLLW)	Depth of Water Column (ft)	Mudline Elevation (ft MLLW)	Sampling Method	Penetration Depth (cm bml)	Sample Interval (cm bml)		Sample Elevation (ft MLLW)
			Easting	Northing						Top	Bottom	
MAF-01	MAF-SS-01_1-10	10/20/15	1299021.1	358809.1	10.3	14.1	-3.9	Power Grab	20 cm	0 cm	10 cm	-3.9
	MAF-SS-DUP-01											
MAF-02	MAF-SS-02_1-10	10/20/15	1299224.3	359084.1	9.5	14.2	-4.7	Power Grab	13 cm	0 cm	10 cm	-4.7
MAF-03	MAF-SS-03_1-10	10/20/15	1298929.1	358923.3	10.3	25.5	-15.3	Power Grab	20 cm	0 cm	10 cm	-15.3
MAF-04	MAF-SS-04_1-10	10/20/15	1299156.8	359181.0	10.0	21.7	-11.7	Power Grab	13 cm	0 cm	10 cm	-11.7
MAF-05	MAF-SS-05_1-10	10/20/15	1299413.3	359226.9	9.0	13.1	-4.1	Power Grab	20 cm	0 cm	10 cm	-4.1
MAF-06	MAF-SS-07_1-10	10/19/15	1299663.8	359696.3	8.8	49.4	-40.6	Power Grab	12 cm	0 cm	10 cm	-40.6
MAF-08	MAF-SS-08_1-10	10/19/15	1299991.6	359954.8	11.8	55.4	-43.7	Power Grab	14 cm	0 cm	10 cm	-43.7
	MAF-SS-DUP-02											
MAF-09	MAF-SS-09_1-10	10/19/15	1299688.9	360174.2	11.8	56.3	-44.5	Power Grab	13 cm	0 cm	10 cm	-44.5
MAF-10	MAF-SS-10_1-10	10/20/15	1299120.0	359536.2	9.0	60.7	-51.7	Power Grab	20 cm	0 cm	10 cm	-51.7
MAF-11	MAF-SS-11_1-10	10/20/15	1298800.9	359022.3	10.0	58.5	-48.5	Power Grab	15 cm	0 cm	10 cm	-48.5
MAF-12	MAF-SS-12_1-10	10/20/15	1298485.7	358651.9	10.0	65.6	-55.6	Power Grab	16 cm	0 cm	10 cm	-55.6
MAF-13	MAF-SS-13_1-10	10/20/15	1298263.2	358311.5	10.0	51.8	-41.8	Power Grab	17 cm	0 cm	10 cm	-41.8
MAF-14	MAF-SS-14_1-10	10/21/15	1298454.6	358044.7	10.5	8.5	2.0	Power Grab	18 cm	0 cm	10 cm	2.0
MAF-15	MAF-SS-15_1-10	10/21/15	1298413.3	357667.5	10.8	3.7	7.1	Power Grab	18 cm	0 cm	10 cm	7.1
MAF-16	MAF-SS-16_1-10	10/21/15	1298205.1	357344.7	10.8	3.8	6.9	Power Grab	20 cm	0 cm	10 cm	6.9
MAF-17	MAF-SS-17_1-10	10/21/15	1298047.6	357719.6	9.5	7.6	2.0	Power Grab	25 cm	0 cm	10 cm	2.0
MAF-18	MAF-SS-18_1-10	10/21/15	1298026.7	358068.1	8.0	49.9	-41.9	Power Grab	18 cm	0 cm	10 cm	-41.9
MAF-19	MAF-SS-19_1-10	10/20/15	1298181.3	358638.0	10.0	85.3	-75.3	Power Grab	18 cm	0 cm	10 cm	-75.3
MAF-20	MAF-SS-20_1-10	10/20/15	1298500.7	359045.8	9.8	87.0	-77.2	Power Grab	19 cm	0 cm	10 cm	-77.2
MAF-21	MAF-SS-21_1-10	10/21/15	1298784.7	359439.4	7.5	75.2	-67.7	Power Grab	10 cm	0 cm	10 cm	-67.7
	MAF-SS-DUP-04											
MAF-22	MAF-SS-22_1-10	10/21/15	1299121.9	359872.0	7.5	68.8	-61.3	Power Grab	15 cm	0 cm	10 cm	-61.3
MAF-23	MAF-SS-23_1-10	10/21/15	1297791.4	357722.1	8.8	10.9	-2.2	Power Grab	13 cm	0 cm	10 cm	-2.2
MAF-24	MAF-SS-24_1-10	10/21/15	1298013.6	357332.4	11.0	5.6	5.4	Power Grab	23 cm	0 cm	10 cm	5.4
MAF-25	MAF-SS-25_1-10	10/21/15	1298155.4	357488.3	10.8	5.4	5.4	Power Grab	23 cm	0 cm	10 cm	5.4
MAF-26	MAF-SS-26_1-10	10/21/15	1298052.7	357139.9	11.3	2.8	8.5	Power Grab	10 cm	0 cm	10 cm	8.5
MAF-27	MAF-SS-27_1-10	10/21/15	1298181.2	357224.1	11.3	2.3	8.9	Power Grab	16 cm	0 cm	10 cm	8.9
MAF-28	MAF-SS-28_1-10	10/21/15	1297864.7	356972.7	11.3	5.9	5.3	Power Grab	23 cm	0 cm	10 cm	5.3
MAF-29	MAF-SS-29_1-10	10/21/15	1297829.2	357217.9	10.3	5.7	4.6	Power Grab	18 cm	0 cm	10 cm	4.6
MAF-30	MAF-SS-30_1-10	10/21/15	1297819.1	357451.5	10.0	7.7	2.3	Power Grab	20 cm	0 cm	10 cm	2.3
	MAF-SS-DUP-03											
MAF-31	MAF-SS-31_1-10	10/19/15	1299459.0	359861.8	9.8	51.6	-41.8	Power Grab	20 cm	0 cm	10 cm	-41.8
MAF-32	MAF-SS-32_1-10	10/19/15	1300163.8	359896.2	10.0	51.4	-41.4	Power Grab	12 cm	0 cm	10 cm	-41.4

Sample Location ¹	Sample Identification	Date Sampled	Sample Coordinates ²		Water Surface Elevation ³ (ft MLLW)	Depth of Water Column (ft)	Mudline Elevation (ft MLLW)	Sampling Method	Penetration Depth (cm bml)	Sample Interval (cm bml)		Sample Elevation (ft MLLW)
			NAD83/Washington State Plane North (US Survey Feet)							Top	Bottom	
			Easting	Northing								
MAF-33	MAF-SS-33_1-10	10/19/15	1299797.8	359587.2	8.5	48.9	-40.4	Power Grab	14 cm	0 cm	10 cm	-40.4
	MAF-SS-DUP-06											
MAF-34	MAF-SS-34_1-10	10/20/15	1298878.9	358749.5	10.5	18.3	-7.8	Power Grab	16 cm	0 cm	10 cm	-7.8
MAF-35	MAF-SS-35_1-10	10/19/15	1299438.5	360251.1	11.8	64.6	-52.9	Power Grab	14 cm	0 cm	10 cm	-52.9
MAF-36	MAF-SS-36_1-10	10/19/15	1299733.2	360427.6	11.8	55.7	-44.0	Power Grab	10 cm	0 cm	10 cm	-44.0
MAF-37	MAF-SS-37_1-10	09/13/16	1298382.4	359137.5	8.0	104.2	-96.2	Power Grab	25 cm	0 cm	10 cm	-96.2
MAF-38	MAF-SS-38_1-10	09/13/16	1298673.0	359530.5	9.3	102.1	-92.9	Power Grab	24 cm	0 cm	10 cm	-92.9
	MAF-SS-DUP-07											
MAF-39	MAF-SS-39_1-10	09/13/16	1298110.8	358465.1	9.8	74.2	-64.5	Power Grab	26 cm	0 cm	10 cm	-64.5
	MAF-SS-DUP-08											
MAF-40	MAF-SS-40_1-10	09/13/16	1297793.7	358778.2	10.3	164.0	-153.8	Power Grab	16 cm	0 cm	10 cm	-153.8
MAF-41	MAF-SS-41_1-10	09/13/16	1298212.0	358947.0	7.9	159.5	-151.6	Power Grab	21 cm	0 cm	10 cm	-151.6
MAF-42	MAF-SS-42_1-10	09/14/16	1297939.8	359260.9	0.8	181.0	-180.3	Power Grab	27 cm	0 cm	10 cm	-180.3
MAF-43	MAF-SS-43_1-10	09/14/16	1298244.2	359770.2	0.3	143.0	-142.8	Power Grab	25 cm	0 cm	10 cm	-142.8
MAF-44	MAF-SS-44_1-10	09/14/16	1298704.5	359929.6	0.0	69.1	-69.1	Power Grab	26 cm	0 cm	10 cm	-69.1
MAF-45	MAF-SS-45_1-10	09/14/16	1298997.5	360105.1	0.0	63.3	-63.3	Power Grab	24 cm	0 cm	10 cm	-63.3
MAF-46	MAF-SS-46_1-10	09/14/16	1299388.6	360089.9	0.3	53.8	-53.6	Power Grab	25 cm	0 cm	10 cm	-53.6
MAF-47	MAF-SS-47_1-10	09/14/16	1299744.8	359942.4	0.3	51.8	-51.6	Power Grab	22 cm	0 cm	10 cm	-51.6
MAF-48	MAF-SS-48_1-10	09/14/16	1297692.1	358281.7	0.3	111.2	-111.0	Power Grab	26 cm	0 cm	10 cm	-111.0
MAF-49	MAF-SS-49_1-10	09/14/16	1299203.4	360380.3	0.8	75.3	-74.6	Power Grab	25 cm	0 cm	10 cm	-74.6
MAF-50	MAF-SS-50_1-10	09/13/16	1300175.5	360609.9	10.0	56.8	-46.8	Power Grab	24 cm	0 cm	10 cm	-46.8
MAF-51	MAF-SS-51_1-10	09/14/16	1299680.7	961139.4	1.3	41.6	-40.4	Power Grab	22 cm	0 cm	10 cm	-40.4
MAF-52	MAF-SS-52_1-10	09/14/16	1299528.0	361830.0	1.5	104.2	-102.7	Power Grab	25 cm	0 cm	10 cm	-102.7
MAF-53	MAF-SS-53_1-10	09/14/16	1300557.5	361517.0	2.0	36.6	-34.6	Power Grab	25 cm	0 cm	10 cm	-34.6
MAF-54	MAF-SS-54_1-10	09/14/16	1300652.9	360961.4	2.8	42.9	-40.2	Power Grab	25 cm	0 cm	10 cm	-40.2
MAF-55	MAF-SS-55_0-10	11/13/18	1297941.7	358157.0	8.0	56.0	-48.0	Power Grab	10 cm	0 cm	10 cm	-48.0
MAF-56	MAF-SS-56_0-10	11/13/18	1298332.6	358413.1	7.0	50.6	-43.6	Power Grab	10 cm	0 cm	10 cm	-43.6
MAF-57	MAF-SS-57_0-10	11/14/18	1298461.3	358421.4	10.2	50.4	-40.2	Power Grab	18 cm	0 cm	10 cm	-40.2
MAF-58	MAF-SS-58_0-10	11/14/18	1298415.5	358559.4	9.5	62.3	-52.8	Power Grab	10 cm	0 cm	10 cm	-52.8
MAF-59	MAF-SS-59_0-10	11/14/18	1298676.0	358814.4	10.6	60.9	-50.3	Power Grab	10 cm	0 cm	10 cm	-50.3
MAF-60	MAF-SS-60_0-10	11/14/18	1298657.1	358634.0	10.4	52.5	-42.1	Power Grab	10 cm	0 cm	10 cm	-42.1
MAF-61	MAF-SS-61_0-10	11/14/18	1298160.0	358298.4	7.2	49.8	-42.7	Power Grab	10 cm	0 cm	10 cm	-42.7
	MAF-SS-DUP-11											

Notes:

¹ Sediment sampling locations are shown on Figures 10 and 11.

² Obtained using a differential global positioning system (DGPS) and/or hand-held Trimble GPS device.

³ Surface water elevations are based on one of two surveyed tideboards established for the Marine Area RI.

ft = feet

cm = centimeter

bml = below mudline

NAD83 = North American Datum of 1983

MLLW = mean lower low water

Table L-2
Sediment Core Sample Collection Summary
Weyerhaeuser Mill A Former
Everett, Washington

Sample Location ¹	Sample Identification	Date Sampled	Sample Coordinates ² NAD83/Washington State Plane North (US Survey Feet)		Water Surface Elevation ³ (ft MLLW)	Depth of Water Column (ft)	Mudline Elevation (ft MLLW)	Sampling Method	Penetration Depth (ft bml)	Sample Interval (ft bml)		Sample Elevation (ft MLLW)
			Easting	Northing						Top	Bottom	
MAF-01	MAF-SC-01_0-2	11/11/15	1299010.6	358823.8	11.0	17.4	-6.4	Sonic	25	0	2	-6.4
	MAF-SC-DUP-01									0	2	-6.4
	MAF-SC-01_2-4									2	4	-8.4
	MAF-SC-01_4-6									4	6	-10.4
	MAF-SC-01_8-10									8	10	-14.4
	MAF-SC-01_12-14									12	14	-18.4
	MAF-SC-01_16-18									16	18	-22.4
	MAF-SC-01_20-22									20	22	-26.4
	MAF-SC-DUP-02									20	22	-26.4
MAF-02	MAF-SC-02_0-2	11/10/15	1299140.4	359086.7	11.0	18.6	-7.6	Sonic	25	0	2	-7.6
	MAF-SC-02_2-4									2	4	-9.6
	MAF-SC-02_4-6									4	6	-11.6
	MAF-SC-02_8-10									8	10	-15.6
	MAF-SC-02_12-14									12	14	-19.6
	MAF-SC-02_16-18									16	18	-23.6
	MAF-SC-02_20-22									20	22	-27.6
	MAF-SC-DUP-10									20	22	-27.6
	MAF-03									MAF-SC-03_0-2	11/11/15	1298947.6
MAF-SC-DUP-03		0	2	-13.4								
MAF-SC-03_2-4		2	4	-15.4								
MAF-SC-03_4-6		4	6	-17.4								
MAF-SC-03_8-10		8	10	-21.4								
MAF-SC-DUP-04		8	10	-21.4								
MAF-SC-03_12-14		12	14	-25.4								
MAF-SC-03_16-18		16	18	-29.4								
MAF-SC-03_21-23		20	22	-33.4								
MAF-04	MAF-SC-04_0-2	10/26/15	1299156.8	359181.0	4.8	15.2	-10.5	Vibracore	10.5	0	2	-10.5
	MAF-SC-DUP-05									0	2	-10.5
	MAF-SC-04_2-4									2	4	-12.5
	MAF-SC-DUP-06									2	4	-12.5
	MAF-SC-04_4-6									4	6	-14.5
	MAF-SC-04_8-10	8	10	-18.5								
	MAF-SC-04_10-12	11/10/15	1299166.9	359202.4	6.0	17.7	-11.7	Sonic	20	10	12	-21.7
	MAF-SC-04_12-14									12	14	-23.7
	MAF-SC-04_16-18									16	18	-27.7
	MAF-SC-04_18-20									18	20	-29.7

Sample Location ¹	Sample Identification	Date Sampled	Sample Coordinates ² NAD83/Washington State Plane North (US Survey Feet)		Water Surface Elevation ³ (ft MLLW)	Depth of Water Column (ft)	Mudline Elevation (ft MLLW)	Sampling Method	Penetration Depth (ft bml)	Sample Interval (ft bml)		Sample Elevation (ft MLLW)
			Easting	Northing						Top	Bottom	
MAF-05	MAF-SC-05_0-2	11/11/15	1299435.1	359255.6	9.3	19.3	-10.1	Sonic	15	0	2	-10.1
	MAF-SC-05_2-4									2	4	-12.1
	MAF-SC-05_4-6									4	6	-14.1
	MAF-SC-05_8-10									8	10	-18.1
	MAF-SC-05_12-14									12	14	-22.1
MAF-07	MAF-SC-07_0-2	10/29/15	1299660.9	359679.9	9.3	50.9	-41.6	Vibracore	5	0	2	-41.6
	MAF-SC-07_2-4									2	4	-43.6
	MAF-SC-07_4-5									4	5	-45.6
MAF-10	MAF-SC-10_0-2	10/29/15	1299080.4	359521.6	6.0	63.4	-57.4	Vibracore	9	0	2	-57.4
	MAF-SC-DUP-07									0	2	-57.4
	MAF-SC-10_2-4									2	4	-59.4
	MAF-SC-10_4-6									4	6	-61.4
	MAF-SC-10_6-8									6	8	-63.4
MAF-11	MAF-SC-11_0-2	10/28/15	1298798.2	359015.7	9.5	66.9	-57.4	Vibracore	11	0	2	-57.4
	MAF-SC-11_2-4									2	4	-59.4
	MAF-SC-11_4-6									4	6	-61.4
	MAF-SC-11_6-8									6	8	-63.4
	MAF-SC-11_8-10									8	10	-65.4
	MAF-SC-11_10-11									10	11	-67.4
MAF-12	MAF-SC-12_0-2	10/28/15	1298470.3	358637.0	4.8	60.7	-56.0	Vibracore	12	0	2	-56.0
	MAF-SC-12_2-4									2	4	-58.0
	MAF-SC-12_5-6									5	6	-61.0
	MAF-SC-12_6-8									6	8	-62.0
	MAF-SC-12_8-10									8	10	-64.0
	MAF-SC-12_10-12									10	12	-66.0
MAF-13	MAF-SC-13_0-2	10/27/15	1298258.3	358294.7	8.8	53.3	-44.6	Vibracore	6	0	2	-44.6
	MAF-SC-13_2-4									2	4	-46.6
	MAF-SC-13_4-6									4	6	-48.6
MAF-14	MAF-SC-14_0-2	10/28/15	1298324.6	358015.9	6.3	7.9	-2.4	Vibracore	4.5	0	2	-2.4
	MAF-SC-14_2-3									2	3	-4.4
	MAF-SC-14_3.5-4.5									3.5	4.5	-5.9
MAF-15	MAF-SC-15_0-2	10/28/15	1298406.1	357667.7	7.8	4.1	3.7	Vibracore	7.5	0	2	3.7
	MAF-SC-DUP-08									0	2	3.7
	MAF-SC-15_2-4									2	4	1.7
	MAF-SC-15_4-6									4	6	-0.4
	MAF-SC-15_6-7.5									6	7.5	-2.4
MAF-16	MAF-SC-16_1-2	10/28/15	1298201.2	357348.1	6.3	3.2	3.0	Vibracore	4	1	2	2.0
	MAF-SC-16_2-4									2	4	1.0

Sample Location ¹	Sample Identification	Date Sampled	Sample Coordinates ²		Water Surface Elevation ³ (ft MLLW)	Depth of Water Column (ft)	Mudline Elevation (ft MLLW)	Sampling Method	Penetration Depth (ft bml)	Sample Interval (ft bml)		Sample Elevation (ft MLLW)
			NAD83/Washington State Plane North (US Survey Feet)							Top	Bottom	
			Easting	Northing								
MAF-17	MAF-SC-17_0-2	10/27/15	1298060.2	357718.8	11.5	10.6	0.9	Vibracore	9	0	2	0.9
	MAF-SC-17_2-4									2	4	-1.1
	MAF-SC-17_4-6									4	6	-3.1
	MAF-SC-17_8-9									8	9	-7.1
MAF-18	MAF-SC-18_0-2	10/27/15	1298050.7	358051.8	3.5	29.2	-25.7	Vibracore	8	0	2	-25.7
	MAF-SC-18_2-4									2	4	-27.7
	MAF-SC-18_4-6									4	6	-29.7
	MAF-SC-18_6-7									6	7	-31.7
	MAF-SC-18_7-8									7	8	-32.7
MAF-19	MAF-SC-19_0-2	10/28/15	1298167.8	358645.1	5.0	88.0	-83.0	Vibracore	10	0	2	-83.0
	MAF-SC-19_2-4									2	4	-85.0
	MAF-SC-19_4-6									4	6	-87.0
	MAF-SC-19_6-8									6	8	-89.0
	MAF-SC-19_8-10									8	10	-91.0
MAF-20	MAF-SC-20_0-1	10/29/15	1298482.0	359012.5	6.3	84.8	-78.6	Vibracore	4.5	0	1	-78.6
	MAF-SC-20_1-2									1	2	-79.6
	MAF-SC-20_2-3									2	3	-80.6
	MAF-SC-20_3-4.5									3	4.5	-81.6
MAF-21	MAF-SC-21_0-1	10/29/15	1298786.1	359421.1	6.8	75.5	-68.7	Vibracore	6	0	1	-68.7
	MAF-SC-DUP-09									0	1	-68.7
	MAF-SC-21_1-2									1	2	-69.7
	MAF-SC-21_2-4									2	4	-70.7
	MAF-SC-21_4-6									4	6	-72.7
MAF-23	MAF-SC-23_0-2	10/27/15	1297796.0	357725.6	3.8	7.1	-3.3	Vibracore	10	0	2	-3.3
	MAF-SC-23_2-4									2	4	-5.3
	MAF-SC-23_5-6									5	6	-8.3
	MAF-SC-23_6-8									6	8	-9.3
	MAF-SC-23_8-10									8	10	-11.3
MAF-24	MAF-SC-24_1-2	10/26/15	1298007.4	357331.1	9.3	4.6	4.7	Vibracore	4.8	1	2	3.7
	MAF-SC-24_2-4									2	4	2.7
MAF-25	MAF-SC-25_1-2	10/26/15	1298140.5	357487.0	10.0	6.6	3.4	Vibracore	4	1	2	2.4
	MAF-SC-25_2-4									2	4	1.4
MAF-26	MAF-SC-26_1-2	10/29/15	1298067.7	357151.9	10.8	3.6	7.1	Vibracore	3	1	2	6.1
	MAF-SC-26_2-3									2	3	5.1
MAF-27	MAF-SC-27_1-2	10/29/15	1298123.1	357225.9	11.3	4.2	7.0	Vibracore	3.5	1	2	6.0
	MAF-SC-27_2-3.5									2	3.5	5.0
MAF-28	MAF-SC-28_0-2	10/29/15	1297839.1	356990.7	8.8	5.8	2.9	Vibracore	8	0	2	2.9
	MAF-SC-28_2-4									2	4	0.9
	MAF-SC-28_4-6									4	6	-1.1
	MAF-SC-28_6-8									6	8	-3.1

Sample Location ¹	Sample Identification	Date Sampled	Sample Coordinates ² NAD83/Washington State Plane North (US Survey Feet)		Water Surface Elevation ³ (ft MLLW)	Depth of Water Column (ft)	Mudline Elevation (ft MLLW)	Sampling Method	Penetration Depth (ft bml)	Sample Interval (ft bml)		Sample Elevation (ft MLLW)
			Easting	Northing						Top	Bottom	
MAF-29	MAF-SC-29_0-2	10/27/15	1297828.1	357219.0	7.0	3.7	3.3	Vibracore	8	0	2	3.3
	MAF-SC-29_2-4									2	4	1.3
	MAF-SC-29_4-6									4	6	-0.7
	MAF-SC-29_6-8									6	8	-2.7
MAF-30	MAF-SC-30_0-2	10/27/15	1297832.2	357456.7	6.0	3.9	2.1	Vibracore	10	0	2	2.1
	MAF-SC-30_2-4									2	4	0.1
	MAF-SC-30_4-6									4	6	-1.9
	MAF-SC-30_8-10									8	10	-5.9
MAF-55	MAF-SC-55_0-2	11/12/18	1297941.7	358157.0	11.0	54.5	-43.5	Vibracore	10	0	2	-43.5
	MAF-SC-55_2-4									2	4	-45.5
	MAF-SC-55_4-6									4	6	-47.5
	MAF-SC-55_6-8									6	8	-49.5
	MAF-SC-55_8-10									8	10	-51.5
MAF-56	MAF-SC-56_0-2	11/12/18	1298332.6	358413.1	10.2	56.0	-45.8	Vibracore	10	0	2	-45.8
	MAF-SC-56_2-4									2	4	-47.8
	MAF-SC-DUP-07									2	4	-47.8
	MAF-SC-56_4-6									4	6	-49.8
	MAF-SC-56_6-8									6	8	-51.8
	MAF-SC-56_8-10									8	10	-53.8
MAF-57	MAF-SC-57_0-2	11/13/18	1298477.4	358421.4	10.2	52.5	-42.3	Vibracore	10	0	2	-42.3
	MAF-SC-57_2-4									2	4	-44.3
	MAF-SC-57_4-6									4	6	-46.3
	MAF-SC-57_6-8									6	8	-48.3
	MAF-SC-57_8-9.8									8	9.8	-50.3
MAF-58	MAF-SC-58_0-2	11/13/18	1298415.5	358559.4	10.8	48.0	-37.2	Vibracore	10	0	2	-37.2
	MAF-SC-58_2-4									2	4	-39.2
	MAF-SC-58_4-6									4	6	-41.2
	MAF-SC-58_6-8									6	8	-43.2
	MAF-SC-58_8-10									8	10	-45.2
MAF-59	MAF-SC-59_0-2	11/12/18	1298676.0	358814.4	7.8	58.7	-50.9	Vibracore	13	0	2	-50.9
	MAF-SC-59_2-4									2	4	-52.9
	MAF-SC-59_4-6									4	6	-54.9
	MAF-SC-59_6-8									6	8	-56.9
	MAF-SC-59_8-10									8	10	-58.9
	MAF-SC-59_10-12									10	12	-60.9
MAF-60	MAF-SC-60_0-2	11/12/18	1298657.1	358634.0	8.8	48.3	-39.5	Vibracore	14.5	0	2	-39.5
	MAF-SC-60_2-4									2	4	-41.5
	MAF-SC-60_4-6									4	6	-43.5
	MAF-SC-60_6.5-8									6.5	8	-46.0
	MAF-SC-60_8-10									8	10	-47.5
	MAF-SC-60_10-12									10	12	-49.5

Sample Location ¹	Sample Identification	Date Sampled	Sample Coordinates ² NAD83/Washington State Plane North (US Survey Feet)		Water Surface Elevation ³ (ft MLLW)	Depth of Water Column (ft)	Mudline Elevation (ft MLLW)	Sampling Method	Penetration Depth (ft bml)	Sample Interval (ft bml)		Sample Elevation (ft MLLW)
			Easting	Northing						Top	Bottom	
MAF-61	MAF-SC-61_0-2	11/12/18	1298160.0	358298.4	15.3	54.8	-39.5	Vibracore	9.75	0	2	-39.5
	MAF-SC-61_2-4									2	4	-41.5
	MAF-SC-61_4-6									4	6	-43.5
	MAF-SC-61_6-8									6	8	-45.5
	MAF-SC-61_8-9.8									8	9.8	-47.5

Notes:

¹ Sediment core sampling locations are shown on Figure 10.

² Obtained using a differential global positioning system (DGPS) and/or hand-held Trimble GPS device.

³ Surface water elevations are base on one of two surveyed tideboards established for the Marine Area RI.

ft = feet

cm = centimeter

bml = below mudline

NAD83 = North American Datum of 1983

MLLW = mean lower low water

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS <small>(LITTLE OR NO FINES)</small>		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
	SAND AND SANDY SOILS	CLEAN SANDS <small>(LITTLE OR NO FINES)</small>		SW	WELL-GRADED SANDS, GRAVELLY SANDS
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SP	POORLY-GRADED SANDS, GRAVELLY SAND
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SM	SILTY SANDS, SAND - SILT MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
		LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		LIQUID LIMIT LESS THAN 50		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
		LIQUID LIMIT GREATER THAN 50		CH	INORGANIC CLAYS OF HIGH PLASTICITY
		LIQUID LIMIT GREATER THAN 50		OH	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

Sampler Symbol Descriptions

	2.4-inch I.D. split barrel
	Standard Penetration Test (SPT)
	Shelby tube
	Piston
	Direct-Push
	Bulk or grab
	Continuous Coring

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

"P" indicates sampler pushed using the weight of the drill rig.

"WOH" indicates sampler pushed using the weight of the hammer.

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

ADDITIONAL MATERIAL SYMBOLS

SYMBOLS		TYPICAL DESCRIPTIONS
GRAPH	LETTER	
	AC	Asphalt Concrete
	CC	Cement Concrete
	CR	Crushed Rock/Quarry Spalls
	SOD	Sod/Forest Duff
	TS	Topsoil

Groundwater Contact



Measured groundwater level in exploration, well, or piezometer



Measured free product in well or piezometer

Graphic Log Contact



Distinct contact between soil strata



Approximate contact between soil strata

Material Description Contact



Contact between geologic units



Contact between soil of the same geologic unit

Laboratory / Field Tests

%F	Percent fines
%G	Percent gravel
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DD	Dry density
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
Mohs	Mohs hardness scale
OC	Organic content
PM	Permeability or hydraulic conductivity
PI	Plasticity index
PL	Point lead test
PP	Pocket penetrometer
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
VS	Vane shear

Sheen Classification

NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen

Key to Exploration Logs



Figure L-1

Start Drilled 10/20/2015	End 10/20/2015	Total Depth (m) 0.2	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft) -3.89	Vertical Datum MLLW	Drilling Equipment Research Vessel Tieton			
Easting (X) 1299021.1 Northing (Y) 358809.13	Horizontal Datum WA State Plane, North NAD83 (feet)	Surface Water Time Measured 10:50:00 AM	Depth to Mudline (ft) 14.14	Water Elevation (ft) 10.25	
Notes: Eelgrass observed at the time of sample collection					

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval	Recovered %	Collected Sample						
-3.9	0.0	100		MAF-SS-01_0-10 CA		ML	Dark gray silt and wood debris (bark)	NS	<5%	Slight H ₂ S odor
-4.0	0.1									
0.2										

Note: See Figure L-1 for explanation of symbols.

Seattle: Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\067602004.GPJ\DBT\template\GEOENGINEERS8.GDT\GEB6_ENVIRONMENTAL_STANDARD

Log of Boring MAF-SS-01



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/20/2015	End 10/20/2015	Total Depth (m) 0.13	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-4.71	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1299224.25 359084.14	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				10:10:00 AM	14.21 9.5

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0	100		MAF-SS-02_0-10 CA		SM	Dark gray silty fine sand with occasional shell fragments and wood debris (lumber)	NS	10%	No odor	
-4.8	0.1									

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-02



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/20/2015	End 10/20/2015	Total Depth (m) 0.2	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-15.27	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1298929.05 358923.3	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				11:10:00 AM	25.52 10.25

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval	Recovered %	Collected Sample						
0.0		100				SM	Dark gray silty fine sand with wood debris (sawdust)	MS	50%	Heavy H ₂ S odor, trace small crab
15.3										
0.1										
15.4										
0.2										

Note: See Figure L-1 for explanation of symbols.


Seattle: Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\067602004.GPJ\DBT\template\GEOENGINEERS8.GDT\GEB6_ENVIRONMENTAL_STANDARD

Log of Boring MAF-SS-03



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/20/2015	End 10/20/2015	Total Depth (m) 0.13	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-11.74	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1299156.77 359181.04	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				10:30:00 AM	21.74 10

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0	100		MAF-SS-04_0-10 CA		WD	Wood debris (sawdust) with dark gray silt and trace shell fragments	SS	75%	No odor	
-11.8										
0.1										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-04



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/19/2015	End 10/19/2015	Total Depth (m) 0.2	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft) -4.1	Vertical Datum MLLW	Drilling Equipment Research Vessel Tieton			
Easting (X) Northing (Y) 1299413.34 359226.94	Horizontal Datum WA State Plane, North NAD83 (feet)	Surface Water	Depth to Mudline (ft) 13.1	Water Elevation (ft) 9	
Notes: Eelgrass observed at the time of sample collection			Time Measured 9:50:00 AM		

Elevation (feet) Depth (meters)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Interval	Recovered %	Collected Sample	Sample Name Testing						
0.0	100			MAF-SS-05_0-10 CA		SM	Dark gray silty fine sand with occasional shell fragments and trace wood debris	NS	<1%	Slight H ₂ S odor
0.1										
0.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-05



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/20/2015	End 10/20/2015	Total Depth (m) 0.12	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-40.63	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1299663.76 359696.31	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				1:50:00 PM	49.38 8.75

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0	100		MAF-SS-07-0-10 CA		SM	Dark gray silty fine sand and occasional wood debris (chips)	NS	5%	Slight H ₂ S odor, worms, trace organic matter (roots)	
40.7										
0.1										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-07



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/19/2015	End 10/19/2015	Total Depth (m) 0.14	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-43.66	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1299991.59 359954.77	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				11:20:00 AM	55.41 11.75

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0	100		MAF-SS-08_0-10 CA		SP	Gray fine to medium sand with occasional shell fragments and trace wood debris (bark)	NS	<1%	No odor, occasional crab and shellfish	
43.7										
0.1										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-08



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-8
 Sheet 1 of 1

Start Drilled 10/19/2015	End 10/19/2015	Total Depth (m) 0.13	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-44.52	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1299688.88 360174.17	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				10:50:00 AM	56.27 11.75

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0	0.0	100	MAF-SS-09-0-10 CA		ML	Dark gray silt and wood debris (bark, twigs and trace sawdust)	NS	<25%	Slight H ₂ S odor, trace worms	
44.6	0.1									

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-09



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/20/2015	End 10/20/2015	Total Depth (m) 0.2	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-51.7	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1299120 359536.15	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				9:20:00 AM	60.7 9

Elevation (feet)	Depth (meters)	FIELD DATA		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Interval Recovered %	Collected Sample Sample Name Testing						
51.7	0.0	100	MAF-SS- 10_0-10 CA		ML	Dark gray silt and trace wood debris (bark and sawdust)	NS	<5%	Slight H ₂ S odor, occasional worms
51.8	0.1								
	0.2								

Note: See Figure L-1 for explanation of symbols.

Seattle: Date: 10/21/19 Path: W:\PROJECTS\0067620\GINT\067620\04.GPJ\DBT\template\GEOENGINEERS8.GDT\GEB6_ENVIRONMENTAL_STANDARD

Log of Boring MAF-SS-10



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/20/2015	End 10/20/2015	Total Depth (m) 0.15	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-48.5	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1298800.9 359022.33	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				1:00:00 PM	58.5 10

Elevation (feet)	Depth (meters)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Interval	Recovered %	Collected Sample	Sample Name Testing						
48.5	0.0	100			MAF-SS- 11_0-10 CA		SM	Dark gray silty fine sand with wood debris (chips) and trace shell fragments	NS	75%	Moderate H ₂ S odor
48.6	0.1										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-11



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-11
 Sheet 1 of 1

Start Drilled	10/20/2015	End	10/20/2015	Total Depth (m)	0.16	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab
Mudline Elevation (ft)	-55.62			Vertical Datum	MLLW			Drilling Equipment	Research Vessel Tieton				
Easting (X)	1298485.67			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Notes:							1:20:00 PM	65.62	10				

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval	Recovered %	Collected Sample						
0.0		100				SM	Dark gray-black silty fine sand and occasional wood debris (lumber)	NS	15%	Heavy H ₂ S odor
55.7										
0.1										


Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-12



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/20/2015	End 10/20/2015	Total Depth (m) 0.17	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-41.84	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1298263.23 358311.46	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				1:40:00 PM	51.84 10

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0		100		MAF-SS- 13 0-10 CA		SP	Dark gray fine sand with trace gravel	NS	0%	No odor
41.9										
0.1										
42.0										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-13



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-13
 Sheet 1 of 1

Start Drilled 10/21/2015	End 10/21/2015	Total Depth (m) 0.18	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft) 1.97	Vertical Datum MLLW		Drilling Equipment Research Vessel Tieton		
Easting (X) 1298454.63	Northing (Y) 358044.65	Horizontal Datum WA State Plane, North NAD83 (feet)		Surface Water	Depth to Mudline (ft) 8.53
Notes: Eelgrass observed at the time of sample collection				Time Measured 2:40:00 PM	Water Elevation (ft) 10.5

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval	Recovered %	Collected Sample						
0.0	0.0	100		MAF-SS-14_0-10 CA		ML	Dark gray silt with sand	NS	0%	No odor
0.1										

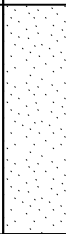
Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-14



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/21/2015	End 10/21/2015	Total Depth (m) 0.18	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft) 7.08	Vertical Datum MLLW	Drilling Equipment Research Vessel Tieton			
Easting (X) 1298413.33 Northing (Y) 357667.49	Horizontal Datum WA State Plane, North NAD83 (feet)	Surface Water	Depth to Mudline (ft) 3.67	Water Elevation (ft) 10.75	
Notes:		Time Measured 2:20:00 PM			

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval	Recovered %	Collected Sample						
0.0	0.0	100		MAF-SS- 15_0-10 CA		SP	Light brown fine to coarse sand with occasional gravel, trace wood debris (bark) and shell fragments	NS	<1%	No odor
0.1										


Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-15



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/21/2015	End 10/21/2015	Total Depth (m) 0.2	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft) 6.94	Vertical Datum MLLW	Drilling Equipment Research Vessel Tieton			
Easting (X) Northing (Y) 1298205.11 357344.71	Horizontal Datum WA State Plane, North NAD83 (feet)	Surface Water	Depth to Mudline (ft) 3.81	Water Elevation (ft) 10.75	
Notes:		Time Measured 2:00:00 PM			

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval	Recovered %	Collected Sample						
0.0		100		MAF-SS- 16_0-10 CA		SP	Light brown fine to coarse sand with occasional gravel, trace wood debris (bark) and shell fragments	NS	<1%	No odor, trace ghost shrimp and worms
0.1										
0.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-16



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/21/2015	End 10/21/2015	Total Depth (m) 0.25	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft) 1.95	Vertical Datum MLLW	Drilling Equipment Research Vessel Tieton			
Easting (X) 1298047.6 Northing (Y) 357719.57	Horizontal Datum WA State Plane, North NAD83 (feet)	Surface Water	Depth to Mudline (ft) 7.55	Water Elevation (ft) 9.5	
Notes:		Time Measured 10:50:00 AM			

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Interval	Recovered %	Collected Sample	Sample Name Testing						
0.0	100	100	MAF-SS- 17 0-10 CA		SP	Light brown fine to medium sand and trace wood debris (bark)	NS	<1%	No odor, trace ghost shrimp and worms	
0.1										
0.9										
0.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-17



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-17
 Sheet 1 of 1

Start Drilled	10/21/2015	End	10/21/2015	Total Depth (m)	0.18	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Power Grab	
Mudline Elevation (ft)	-41.87			Vertical Datum	MLLW			Drilling Equipment	Research Vessel Tieton					
Easting (X)	1298026.68			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	10:10:00 AM	Depth to Mudline (ft)	49.87	Water Elevation (ft)	8
Notes:														

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval	Recovered %	Collected Sample						
0.0		100		MAF-SS-18_0-10 CA		SM	Dark gray silty fine sand and trace wood debris (bark)	NS	<1%	No odor, trace worms
41.9										
0.1										
42.0										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-18



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/20/2015	End 10/20/2015	Total Depth (m) 0.18	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-75.3	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1298181.32 358638.04	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				2:00:00 PM	85.3 10

Elevation (feet)	Depth (meters)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Interval	Recovered %	Collected Sample	Sample Name Testing						
75.3	0.0	100			MAF-SS- 19-0-10 CA		SM	Gray silty fine sand and occasional wood debris (lumber)	NS	10%	Slight H ₂ S odor, trace worms
75.4	0.1										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-19



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/20/2015	End 10/20/2015	Total Depth (m) 0.19	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-77.22	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1298500.72 359045.76	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				2:20:00 PM	86.97 9.75

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval	Recovered %	Collected Sample Sample Name Testing						
0.0		100		MAF-SS- 20_0-10 CA		ML	Gray sandy silt and trace wood debris (lumber)	NS	1%	No odor, trace worms
-77.3	0.1									
-77.4										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-20



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-20
 Sheet 1 of 1

Start Drilled 10/21/2015	End 10/21/2015	Total Depth (m) 0.1	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-67.73	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1298784.67 359439.42	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				9:40:00 AM	75.23 7.5

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0		100		MAF-SS- 21_0-10 CA		ML	Dark gray sandy silt and occasional wood debris (bark and lumber)	NS	10%	Slight H ₂ S odor
67.8										
0.1										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-21



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-21
 Sheet 1 of 1

Start Drilled 10/21/2015	End 10/21/2015	Total Depth (m) 0.15	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-61.33	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1299121.88 359872.04	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				9:20:00 AM	68.83 7.5

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0	100		MAF-SS- 22_0-10 CA		ML	Dark gray sandy silt and trace wood debris (bark)	NS	<1%	No odor, occasional sea lettuce	
61.4										
0.1										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-22



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-22
 Sheet 1 of 1

Start Drilled 10/21/2015	End 10/21/2015	Total Depth (m) 0.13	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-2.18	Vertical Datum	MLLW		Drilling Equipment Research Vessel Tieton
Easting (X) Northing (Y)	1297791.4 357722.09	Horizontal Datum	WA State Plane, North NAD83 (feet)		Surface Water Time Measured
Notes:				10:30:00 AM	Depth to Mudline (ft) 10.93 Water Elevation (ft) 8.75

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0		100		MAF-SS- 23_0-10 CA		SP	Light brown fine to medium sand and trace wood debris (bark)	NS	<1%	No odor, trace dungeness crab and ghost shrimp
-2.2										
-2.3										


Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-23



Project: Weyerhaeuser Mill A Former
Project Location: Everett, Washington
Project Number: 0676-020-04

Start Drilled 10/21/2015	End 10/21/2015	Total Depth (m) 0.23	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft) 5.42	Vertical Datum MLLW	Drilling Equipment Research Vessel Tieton			
Easting (X) Northing (Y) 1298013.59 357332.37	Horizontal Datum WA State Plane, North NAD83 (feet)	Surface Water	Depth to Mudline (ft) 5.58	Water Elevation (ft) 11	
Notes:		Time Measured 12:10:00 PM			

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval	Recovered %	Collected Sample						
0.0		100		MAF-SS- 24_0-10 CA		SP	Light brown fine to medium sand and trace wood debris (bark)	NS	<1%	No odor
0.1										
0.2										


Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-24



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/21/2015	End 10/21/2015	Total Depth (m) 0.23	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft) 5.4	Vertical Datum MLLW	Drilling Equipment Research Vessel Tieton			
Easting (X) Northing (Y) 1298155.38 357488.31	Horizontal Datum WA State Plane, North NAD83 (feet)	Surface Water	Time Measured 11:50:00 AM	Depth to Mudline (ft) 5.35	Water Elevation (ft) 10.75
Notes:					

Elevation (feet)	Depth (meters)	FIELD DATA		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Interval Recovered %	Collected Sample Sample Name Testing						
1.0	0.0	100	MAF-SS- 25_0-10 CA		SP	Light brown fine to medium sand and trace wood debris (bark)	NS	<1%	No odor
0.1									
0.2									


Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-25



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/21/2015	End 10/21/2015	Total Depth (m) 0.1	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft) 8.49	Vertical Datum MLLW	Drilling Equipment Research Vessel Tieton			
Easting (X) 1298052.69 Northing (Y) 357139.9	Horizontal Datum WA State Plane, North NAD83 (feet)	Surface Water	Depth to Mudline (ft) 2.76	Water Elevation (ft) 11.25	
Notes:		Time Measured 1:30:00 PM			

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0	100		MAF-SS- 26_0-10 CA		SP	Light brown fine to coarse sand with occasional gravel, trace wood debris (bark) and shell fragments	NS	<1%	No odor, occasional barnacles	
0.1										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-26



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/21/2015	End 10/21/2015	Total Depth (m) 0.16	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft) 8.92	Vertical Datum MLLW	Drilling Equipment Research Vessel Tieton			
Easting (X) 1298181.24 Northing (Y) 357224.11	Horizontal Datum WA State Plane, North NAD83 (feet)	Surface Water Time Measured 1:40:00 PM	Depth to Mudline (ft) 2.33	Water Elevation (ft) 11.25	
Notes:					

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0	100		MAF-SS- 27 0-10 CA		SP	Light brown fine to coarse sand with occasional gravel, trace wood debris (bark) and shell fragments	NS	<1%	No odor	
0.1										


Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-27



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/21/2015	End 10/21/2015	Total Depth (m) 0.23	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft) 5.31	Vertical Datum MLLW	Drilling Equipment Research Vessel Tieton			
Easting (X) 1297864.65 Northing (Y) 356972.69	Horizontal Datum WA State Plane, North NAD83 (feet)	Surface Water	Depth to Mudline (ft) 5.94	Water Elevation (ft) 11.25	
Notes:		Time Measured 1:00:00 PM			

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval	Recovered %	Collected Sample						
0.0		100		MAF-SS- 28_0-10 CA		SP	Light brown fine to coarse sand and trace wood debris (bark) and shell fragments	NS	<1%	No odor, trace sea lettuce
0.1										
0.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-28



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/21/2015	End 10/21/2015	Total Depth (m) 0.18	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft) 4.55	Vertical Datum MLLW	Drilling Equipment Research Vessel Tieton			
Easting (X) Northing (Y) 1297829.15 357217.92	Horizontal Datum WA State Plane, North NAD83 (feet)	Surface Water	Depth to Mudline (ft) 5.7	Water Elevation (ft) 10.25	
Notes:		Time Measured 11:30:00 AM			

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0	100		MAF-SS- 29_0-10 CA			SP	Light brown fine to medium sand with occasional shells and gravel and trace wood debris (bark)	NS	<1%	No odor, occasional clams and worms
0.1										


Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-29



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/21/2015	End 10/21/2015	Total Depth (m) 0.2	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft) 2.26	Vertical Datum MLLW		Drilling Equipment Research Vessel Tieton		
Easting (X) Northing (Y) 1297819.11 357451.51	Horizontal Datum WA State Plane, North NAD83 (feet)		Surface Water Time Measured 11:10:00 AM	Depth to Mudline (ft) 7.74	Water Elevation (ft) 10
Notes:					

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Interval	Recovered %	Collected Sample	Sample Name Testing						
1.0 — 0.0		100		MAF-SS- 30_0-10 CA		SP	Light brown fine to medium sand with trace shell fragments and trace wood debris (bark)	NS	<1%	No odor
0.1										
0.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-30



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-30
 Sheet 1 of 1

Start Drilled 10/19/2015	End 10/19/2015	Total Depth (m) 0.2	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-41.8	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1299458.99 359861.82	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				1:30:00 PM	51.55 9.75

Elevation (feet)	Depth (meters)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Interval	Recovered %	Collected Sample	Sample Name Testing						
41.8	0.0		100	↑	MAF-SS-31_0-10 CA		ML	Dark gray silt and occasional wood debris (bark)	NS	10%	Moderate H ₂ S odor
41.9	0.1			↓							
0.2											

Note: See Figure L-1 for explanation of symbols.

Seattle: Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\067602004.GPJ\DBT\template\GEOENGINEERS8.GDT\GEB6_ENVIRONMENTAL_STANDARD

Log of Boring MAF-SS-31



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/19/2015	End 10/19/2015	Total Depth (m) 0.12	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-41.35	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1300163.82 359896.17	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				12:00:00 PM	51.35 10

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0	100		MAF-SS- 32 0-10 CA		ML	Black silt with wood debris (bark) and occasional shell fragments	NS	40%	Heavy H ₂ S odor	
41.4										
0.1										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-32



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled 10/19/2015	End 10/19/2015	Total Depth (m) 0.14	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-40.38	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1299797.84 359587.21	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes: Eelgrass observed at the time of sample collection				2:10:00 PM	48.88 8.5

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
40.4 —	0.0	100	↑	MAF-SS- 33 0-10 CA		ML	Dark gray silt and trace wood debris (bark)	NS	<1%	Slight H ₂ S odor, occasional organic matter (roots)
40.5 —	0.1		↓							

Note: See Figure L-1 for explanation of symbols.


Log of Boring MAF-SS-33



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-33
 Sheet 1 of 1

Start Drilled 10/20/2015	End 10/20/2015	Total Depth (m) 0.16	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft) -7.81		Vertical Datum MLLW		Drilling Equipment Research Vessel Tieton	
Easting (X) 1298878.92 Northing (Y) 358749.54		Horizontal Datum WA State Plane, North NAD83 (feet)		Surface Water	Depth to Mudline (ft)
Notes:				Time Measured 12:30:00 PM	Water Elevation (ft) 10.5

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval	Recovered %	Collected Sample						
0.0		100		MAF-SS-34_0-10 CA		SP	Dark brown to gray fine sand with shell fragments	SS	0%	Slight H ₂ S odor, trace sea lettuce and worms
-7.9	0.1									

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-34



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-34
 Sheet 1 of 1

Start Drilled 10/19/2015	End 10/19/2015	Total Depth (m) 0.14	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-52.88	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1299438.45 360251.12	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				10:20:00 AM	64.63 11.75

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
52.9 —	0.0	100	↑	MAF-SS- 35_0-10 CA		ML	Dark gray silt and occasional wood debris (bark and twigs) and trace shell fragments	NS	10%	Moderate H ₂ S odor
53.0 —	0.1		↓							

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-35



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-35
 Sheet 1 of 1

Start Drilled 10/19/2015	End 10/19/2015	Total Depth (m) 0.1	Logged By Checked By RST IHW	Driller Gravity Environmental, LLC	Drilling Method Power Grab
Mudline Elevation (ft)	-43.96	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1299733.22 360427.6	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) 9:50:00 AM
Notes:				Water Elevation (ft)	11.75

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0	100		MAF-SS- 36_0-10 CA		ML	Black shell hash with silt and trace wood debris (bark)	NS	<1%	Moderate H ₂ S odor	
44.0										
0.1										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-36



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-36
 Sheet 1 of 1

Drilled	Start 9/13/2016	End 9/13/2016	Total Depth (m)	0.25	Logged By Checked By	NRS RST	Driller Research Support Service	Drilling Method	Power Grab
Mudline Elevation (ft)			-112.2		Vertical Datum		Drilling Equipment	Research Vessel Tieton	
Easting (X) Northing (Y)		1298382.39 359137.57		Horizontal Datum		Surface Water		Depth to Mudline (ft)	Water Elevation (ft)
Notes:						Time Measured	1:50:00 PM	104.2	-8

Elevation (feet)	Depth (meters)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Interval	Recovered %	Collected Sample	Sample Name Testing						
12.2	0.0		100		MAF-SS-37 0-10 CA		SP-SM	Gray fine sand with silt and trace wood debris	NS	<1	No odor
12.3	0.1										
12.4	0.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-37



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-05

Figure L-37
 Sheet 1 of 1

Start Drilled 9/13/2016	End 9/13/2016	Total Depth (m) 0.24	Logged By Checked By NRS RST	Driller Research Support Service	Drilling Method Power Grab
Mudline Elevation (ft) -111.35		Vertical Datum		Drilling Equipment Research Vessel Tieton	
Easting (X) Northing (Y) 359530.5 1298672.98		Horizontal Datum		Surface Water	Depth to Mudline (ft)
Notes:				Time Measured 2:20:00 PM	Water Elevation (ft) -9.25

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0	100		MAF-SS-38 0-10 CA		SP-SM	Gray fine sand with silt and trace wood debris	NS	<1	No odor	
11.4										
0.1										
11.5										
0.2										

Note: See Figure L-1 for explanation of symbols.

Seattle: Date: 10/21/19 Path: \\PROJECTS\067620\GINT\067620\05.GPJ\DBT\template\GEOENGINEERS8.GDT\GEB6_ENVIRONMENTAL_STANDARD

Log of Boring MAF-SS-38



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-05

Start Drilled 9/13/2016	End 9/13/2016	Total Depth (m) 0.26	Logged By Checked By NRS RST	Driller Research Support Service	Drilling Method Power Grab
Mudline Elevation (ft) -83.95		Vertical Datum		Drilling Equipment Research Vessel Tieton	
Easting (X) 358465.1 Northing (Y) 1298110.77		Horizontal Datum		Surface Water	Depth to Mudline (ft)
Notes:				Time Measured 2:45:00 PM	Water Elevation (ft) -9.75

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval	Recovered %	Collected Sample						
0.0		100		MAF-SS-39 0-10 CA		SP-SM	Gray fine sand with silt and wood debris (chips and saw dust)	NS	35	Slight H ₂ S odor, trace worms
-84.0										
-84.1										
-84.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-39




Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-05

Drilled	Start 9/13/2016	End 9/13/2016	Total Depth (m)	0.16	Logged By Checked By	NRS RST	Driller Research Support Service	Drilling Method	Power Grab
Mudline Elevation (ft)			-174.25		Vertical Datum		Drilling Equipment	Research Vessel Tieton	
Easting (X) Northing (Y)		358778.24 1297793.7		Horizontal Datum		Surface Water		Depth to Mudline (ft)	Water Elevation (ft)
Notes:						4:15:00 PM	164	-10.25	

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0	100			MAF-SS-40 0-10 CA		SP-SM	Dark gray fine sand with silt and trace wood debris	NS	<1	No odor, trace roots, worms and ghost shrimp
74.3										
0.1										
74.4										

Note: See Figure L-1 for explanation of symbols.

Seattle: Date: 10/21/19 Path: W:\PROJECTS\0067620\GINT\067620\05.GPJ\DBT\template\GEOENGINEERS8.GDT\GEB6_ENVIRONMENTAL_STANDARD

Log of Boring MAF-SS-40		
	Project:	Weyerhaeuser Mill A Former
	Project Location:	Everett, Washington
	Project Number:	0676-020-05
		Figure L-40 Sheet 1 of 1

Drilled	Start 9/13/2016	End 9/13/2016	Total Depth (m)	0.21	Logged By Checked By	NRS RST	Driller Research Support Service	Drilling Method	Power Grab
Mudline Elevation (ft)			-152.4		Vertical Datum		Drilling Equipment	Research Vessel Tieton	
Easting (X) Northing (Y)		358947.04 1298211.97		Horizontal Datum		Surface Water		Depth to Mudline (ft)	Water Elevation (ft)
Notes:						3:15:00 PM		159.9	7.5

Elevation (feet)	Depth (meters)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Interval	Recovered %	Collected Sample	Sample Name Testing						
52.4	0.0		100		MAF-SS-41 0-10 CA		SP-SM	Gray fine sand with silt and trace wood debris	NS	<1	Slight H ₂ S odor
52.5	0.1										
52.6	0.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-41



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-05

Start Drilled 9/14/2016	End 9/14/2016	Total Depth (m) 0.27	Logged By Checked By NRS RST	Driller Research Support Service	Drilling Method Power Grab
Mudline Elevation (ft) -167.4		Vertical Datum		Drilling Equipment Research Vessel Tieton	
Easting (X) 359260.9 Northing (Y) 1297939.8		Horizontal Datum		Surface Water	Depth to Mudline (ft)
Notes:				Time Measured 8:55:00 AM	Water Elevation (ft) 181 13.6

Elevation (feet)	Depth (meters)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Interval	Recovered %	Collected Sample	Sample Name Testing						
67.4	0.0		100		MAF-SS-42 0-10 CA		SP-SM	Gray fine sand with silt and trace wood debris	NS	<1	No odor
67.5	0.1										
67.6	0.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-42



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-05

Figure L-42
 Sheet 1 of 1

Drilled	Start 9/14/2016	End 9/14/2016	Total Depth (m)	0.25	Logged By Checked By	NRS RST	Driller Research Support Service	Drilling Method	Power Grab
Mudline Elevation (ft)			-143.25		Vertical Datum		Drilling Equipment	Research Vessel Tieton	
Easting (X) Northing (Y)		359770.16 1298244.15		Horizontal Datum		Surface Water		Depth to Mudline (ft)	Water Elevation (ft)
Notes: Eelgrass observed at the time of sample collection						9:05:00 AM		143	-0.25

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Interval	Recovered %	Collected Sample	Sample Name Testing						
0.0		100		MAF-SS- 43 0-10 CA		SP-SM	Gray fine sand with silt and trace wood debris	NS	<1	No odor, occasional grass, roots and worms
43.3										
0.1										
43.4										
0.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-43



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-05

Figure L-43
 Sheet 1 of 1

Start Drilled 9/14/2016	End 9/14/2016	Total Depth (m) 0.26	Logged By Checked By NRS RST	Driller Research Support Service	Drilling Method Power Grab
Mudline Elevation (ft) -69.1		Vertical Datum		Drilling Equipment Research Vessel Tieton	
Easting (X) Northing (Y) 359929.61 1298704.48		Horizontal Datum		Surface Water	Depth to Mudline (ft) 69.1
Notes:				Time Measured 9:25:00 AM	Water Elevation (ft) 0

Elevation (feet)	Depth (meters)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Interval	Recovered %	Collected Sample	Sample Name Testing						
69.1	0.0	100			MAF-SS-44_0-10 CA		SP-SM	Gray fine to medium sand with silt and wood debris (bark)	NS	50	No odor
69.2	0.1										
69.3	0.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-44



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-05

Start Drilled 9/14/2016	End 9/14/2016	Total Depth (m) 0.24	Logged By Checked By NRS RST	Driller Research Support Service	Drilling Method Power Grab
Mudline Elevation (ft) -63.3		Vertical Datum		Drilling Equipment Research Vessel Tieton	
Easting (X) Northing (Y) 360105.07 1298997.48		Horizontal Datum		Surface Water	Depth to Mudline (ft) Water Elevation (ft)
Notes: Eelgrass observed at the time of sample collection				Time Measured 9:35:00 AM	63.3 0

Elevation (feet)	Depth (meters)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Interval	Recovered %	Collected Sample	Sample Name Testing						
63.3	0.0		100		MAF-SS-45 0-10 CA		SP-SM	Gray fine sand with silt and trace wood debris	NS	<1	No odor, occasional roots
63.4	0.1										
63.5	0.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-45



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-05

Start Drilled 9/14/2016	End 9/14/2016	Total Depth (m) 0.25	Logged By Checked By NRS RST	Driller Research Support Service	Drilling Method Power Grab
Mudline Elevation (ft) -53.55		Vertical Datum		Drilling Equipment Research Vessel Tieton	
Easting (X) Northing (Y) 360089.9 1299388.61		Horizontal Datum		Surface Water Time Measured 9:45:00 AM	Depth to Mudline (ft) 53.8 Water Elevation (ft) 0.25
Notes:					

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0	0.0	100	MAF-SS-46 0-10 CA		SP-SM	Gray fine sand with silt and trace wood debris	NS	<1	No odor	
53.6										
0.1										
53.7										
0.2										

Note: See Figure L-1 for explanation of symbols.

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Log of Boring MAF-SS-46



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-05

Start Drilled 9/14/2016	End 9/14/2016	Total Depth (m) 0.25	Logged By Checked By NRS RST	Driller Research Support Service	Drilling Method Power Grab
Mudline Elevation (ft) -51.55		Vertical Datum		Drilling Equipment	Research Vessel Tieton
Easting (X) 359942.44 Northing (Y) 1299744.8		Horizontal Datum		Surface Water	Depth to Mudline (ft)
Notes:				Time Measured 9:55:00 AM	Water Elevation (ft) 51.8 0.25

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0	100		MAF-SS-47 0-10 CA		SP-SM	Gray fine to medium sand with silt and trace wood debris	NS	<1	No odor	
51.6										
0.1										
51.7										
0.2										

Note: See Figure L-1 for explanation of symbols.

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Log of Boring MAF-SS-47



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-05

Start Drilled 9/14/2016	End 9/14/2016	Total Depth (m) 0.26	Logged By Checked By NRS RST	Driller Research Support Service	Drilling Method Power Grab
Mudline Elevation (ft) -110.95		Vertical Datum		Drilling Equipment Research Vessel Tieton	
Easting (X) Northing (Y) 358281.71 1297692.13		Horizontal Datum		Surface Water Time Measured 10:05:00 AM	Depth to Mudline (ft) 111.2 Water Elevation (ft) 0.25
Notes: Eelgrass observed at the time of sample collection					

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0	100		MAF-SS-48 0-10 CA		SP-SM	Gray fine sand with silt and trace wood debris	NS	<1	No odor, occasional ghost shrimp	
11.0										
11.1										
11.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-48



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-05

Figure L-48
 Sheet 1 of 1

Start Drilled 9/14/2016	End 9/14/2016	Total Depth (m) 0.25	Logged By Checked By NRS RST	Driller Research Support Service	Drilling Method Power Grab
Mudline Elevation (ft) -74.55		Vertical Datum		Drilling Equipment Research Vessel Tieton	
Easting (X) Northing (Y) 360380.33 1299203.43		Horizontal Datum		Surface Water	Depth to Mudline (ft)
Notes:				Time Measured 10:15:00 AM	Water Elevation (ft) 75.3 0.75

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (meters)	Interval Recovered %	Collected Sample	Sample Name Testing						
0.0	100		MAF-SS- 49 0-10 CA		SP-SM	Gray fine to medium sand with silt and trace wood debris	NS	<1	No odor, occasional worms and roots	
-74.6										
-74.7										
-0.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-49



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-05

Start Drilled 9/13/2016	End 9/13/2016	Total Depth (m) 0.25	Logged By Checked By NRS RST	Driller Research Support Service	Drilling Method Power Grab
Mudline Elevation (ft) -66.8		Vertical Datum		Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y) 360609.85 1300175.5		Horizontal Datum		Surface Water	Depth to Mudline (ft)
Notes:				Time Measured 3:30:00 PM	Water Elevation (ft) 56.8 -10

Elevation (feet)	Depth (meters)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Interval	Recovered %	Collected Sample	Sample Name Testing						
66.8	0.0		100		MAF-SS-50_0-10 CA		SP-SM	Gray fine to medium sand with silt and trace wood debris	NS	<1	No odor
66.9	0.1										
67.0	0.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-50



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-05

Figure L-50
 Sheet 1 of 1

Start Drilled 9/14/2016	End 9/14/2016	Total Depth (m) 0.22	Logged By Checked By NRS RST	Driller Research Support Service	Drilling Method Power Grab
Mudline Elevation (ft) -42.85		Vertical Datum		Drilling Equipment Research Vessel Tieton	
Easting (X) 361139.37 Northing (Y) 1299680.71		Horizontal Datum		Surface Water	Depth to Mudline (ft)
Notes: Eelgrass observed at the time of sample collection				Time Measured 11:00:00 AM	Water Elevation (ft) -1.25

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Interval	Recovered %	Collected Sample	Sample Name Testing						
0.0		100		MAF-SS- 51_0-10 CA		SP-SM	Gray fine sand with silt and wood debris (chips and bark)	NS	25	No odor, occasional roots
42.9										
0.1										
43.0										
0.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-51



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-05

Figure L-51
 Sheet 1 of 1

Start Drilled 9/14/2016	End 9/14/2016	Total Depth (m) 0.25	Logged By Checked By NRS RST	Driller Research Support Service	Drilling Method Power Grab
Mudline Elevation (ft) -102.2		Vertical Datum		Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y) 361830.04 1299528.01		Horizontal Datum		Surface Water	Depth to Mudline (ft)
Notes: Eelgrass observed at the time of sample collection				Time Measured 11:15:00 AM	Water Elevation (ft) 104.2 2

Elevation (feet)	Depth (meters)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Interval	Recovered %	Collected Sample	Sample Name Testing						
02.2	0.0		100		MAF-SS- 52_0-10 CA		SP	Gray fine to medium sand with cobbles and wood debris (bark) and shell fragments	NS	35	No odor, occasional sea lettuce
02.3	0.1										
02.4	0.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-52



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-05

Figure L-52
 Sheet 1 of 1

Start Drilled 9/14/2016	End 9/14/2016	Total Depth (m) 0.25	Logged By Checked By NRS RST	Driller Research Support Service	Drilling Method Power Grab
Mudline Elevation (ft) -38.6		Vertical Datum		Drilling Equipment Research Vessel Tieton	
Easting (X) Northing (Y) 361516.97 1300557.45		Horizontal Datum		Surface Water	Depth to Mudline (ft)
Notes:				Time Measured 11:30:00 AM	Water Elevation (ft) -2

Elevation (feet)	Depth (meters)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
		Interval	Recovered %	Collected Sample	Sample Name Testing						
38.6	0.0	100		MAF-SS- 53_0-10 CA		SP-SM	Black fine sand with silt and wood debris (chips and bark) and shells	NS	65	No odor	
38.7	0.1										
38.8	0.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-53



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-05

Start Drilled 9/14/2016	End 9/14/2016	Total Depth (m) 0.25	Logged By Checked By NRS RST	Driller Research Support Service	Drilling Method Power Grab
Mudline Elevation (ft) -45.65		Vertical Datum		Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y) 360961.42 1300652.93		Horizontal Datum		Surface Water	Depth to Mudline (ft)
Notes:				Time Measured 11:40:00 AM	Water Elevation (ft) -2.75

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Interval	Recovered %	Collected Sample	Sample Name Testing						
0.0	100			MAF-SS- 54_0-10 CA		SP-SM	Black fine sand with silt and trace wood debris	NS	<1	No odor
45.7										
0.1										
45.8										
0.2										

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-54



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-05


Figure L-54
 Sheet 1 of 1

Start Drilled 11/13/2018	End 11/13/2018	Total Depth (m) 0.1	Logged By Checked By RST RST	Driller Gravity Marine Service	Drilling Method Power Grab
Mudline Elevation (ft) -47.97	Vertical Datum MLLW		Drilling Equipment Research Vessel Tieton		
Easting (X) Northing (Y) 1297937.94 358167.63	Horizontal Datum WA State Plane, North NAD83 (feet)		Surface Water Time Measured 2:00:00 PM	Depth to Mudline (ft) 56	Water Elevation (ft) 8.03
Notes:					



Depth (meters)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Interval	Recovered %	Collected Sample	Sample Name Testing						
0.0	100		MAF-SS-55 0-10 CA		SP	Gray fine to medium sand	NS	0%		
0.1										

Note: See Figure L-1 for explanation of symbols.

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Log of Boring MAF-SS-55		
	Project:	Weyerhaeuser Mill A Former
	Project Location:	Everett, Washington
	Project Number:	0676-020-06
		Figure L-55 Sheet 1 of 1

Start Drilled 11/13/2018	End 11/13/2018	Total Depth (m) 0.1	Logged By Checked By RST RST	Driller Gravity Marine Service	Drilling Method Power Grab
Mudline Elevation (ft)	-43.6	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1298323.69 358408.12	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				3:20:00 PM	50.6 7

Depth (meters)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Interval	Recovered %	Collected Sample	Sample Name Testing						
0.0		100		MAF-SS-56 0-10 CA		SM	Gray silty fine sand with occasional shell fragments	NS	0%	
0.1						SP	Gray fine to medium sand	NS	0%	

Note: See Figure L-1 for explanation of symbols.

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Log of Boring MAF-SS-56	
	Project: Weyerhaeuser Mill A Former
	Project Location: Everett, Washington
	Project Number: 0676-020-06
Figure L-56 Sheet 1 of 1	

Start Drilled 11/14/2018	End 11/14/2018	Total Depth (m) 0.18	Logged By Checked By RST RST	Driller Gravity Marine Service	Drilling Method Power Grab
Mudline Elevation (ft)	-40.2	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1298461.28 358439.37	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				9:22:00 AM	50.4 10.2

Depth (meters)	FIELD DATA			Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Interval	Recovered %	Collected Sample Sample Name Testing						
0.0	100	MAF-SS-57 0-10 CA			SM	Gray silty fine to medium sand with occasional shells and trace wood debris (twigs)	NS	<1%	Light H ₂ S odor
					SM	Dark gray silty fine to medium sand with shell hash	NS	0%	
0.1					SM	Dark gray silty fine to medium sand	NS	0%	

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-57



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-06


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Start Drilled 11/14/2018	End 11/14/2018	Total Depth (m) 0.1	Logged By Checked By RST RST	Driller Gravity Marine Service	Drilling Method Power Grab
Mudline Elevation (ft) -52.78	Vertical Datum MLLW	Drilling Equipment Research Vessel Tieton			
Easting (X) 1298411.49 Northing (Y) 358533.88	Horizontal Datum WA State Plane, North NAD83 (feet)	Surface Water	Depth to Mudline (ft) 62.3	Water Elevation (ft) 9.52	
Notes:		Time Measured 8:51:00 AM			

Depth (meters)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Interval	Recovered %	Collected Sample	Sample Name Testing						
0.0	100		MAF-SS-58 0-10 CA		SM SM	Light gray silty fine sand with rare wood debris (chips and bark) and shell fragments Dark gray silty fine to medium sand with trace shell fragments and wood debris (chips)	NS NS	5% <1%		
0.1										

Note: See Figure L-1 for explanation of symbols.

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Log of Boring MAF-SS-58		
	Project:	Weyerhaeuser Mill A Former
	Project Location:	Everett, Washington
	Project Number:	0676-020-06
		Figure L-58 Sheet 1 of 1

Start Drilled 11/14/2018	End 11/14/2018	Total Depth (m) 0.1	Logged By Checked By RST RST	Driller Gravity Marine Service	Drilling Method Power Grab
Mudline Elevation (ft) -50.26	Vertical Datum MLLW	Drilling Equipment Research Vessel Tieton			
Easting (X) 1298666.4 Northing (Y) 358789.4	Horizontal Datum WA State Plane, North NAD83 (feet)	Surface Water Time Measured 10:32:00 AM	Depth to Mudline (ft) 60.9	Water Elevation (ft) 10.64	
Notes:					

Depth (meters)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Interval	Recovered %	Collected Sample	Sample Name Testing						
0.0		100		MAF-SS-59 0-10 CA		SM	Light gray silty fine to medium sand with wood debris (bark and chips) and occasional shell fragments	NS	20%	Moderate H ₂ S odor
0.1						SP	Dark gray fine to coarse sand with occasional shell fragments	NS	0%	

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SS-59




Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-06

Start Drilled 11/14/2018	End 11/14/2018	Total Depth (m) 0.1	Logged By Checked By RST RST	Driller Gravity Marine Service	Drilling Method Power Grab
Mudline Elevation (ft)	-42.12	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1298634.89 358628.76	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) 9:46:00 AM
Notes:				Water Elevation (ft)	10.38

Depth (meters)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Interval	Recovered %	Collected Sample	Sample Name Testing						
0.0	100		MAF-SS-60 0-10 CA		SM	Light gray silty fine to medium sand with occasional shell fragments and trace wood debris (twigs)	SS	<1%	Moderate H ₂ S odor	
					SM	Dark gray silty fine to medium sand with shell hash	NS	0%		
0.1					SM	Dark gray silty fine to medium sand	NS	0%		

Note: See Figure L-1 for explanation of symbols.

Refmond: Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\067602006.GPJ DBT template\lbr Template\GEOENGINEERS8.GDT\GEB_ENVIRONMENTAL_STANDARD

Log of Boring MAF-SS-60		
	Project:	Weyerhaeuser Mill A Former
	Project Location:	Everett, Washington
	Project Number:	0676-020-06
		Figure L-60 Sheet 1 of 1

Start Drilled 11/13/2018	End 11/13/2018	Total Depth (m) 0.1	Logged By Checked By RST RST	Driller Gravity Marine Service	Drilling Method Power Grab
Mudline Elevation (ft) -42.65	Vertical Datum MLLW	Drilling Equipment Research Vessel Tieton			
Easting (X) 1298164.11 Northing (Y) 358300.44	Horizontal Datum WA State Plane, North NAD83 (feet)	Surface Water Time Measured 2:55:00 PM	Depth to Mudline (ft) 49.8	Water Elevation (ft) 7.15	
Notes:					

Depth (meters)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Interval	Recovered %	Collected Sample	Sample Name Testing						
0.0	100		MAF-SS-61 0-10 CA		SM	Gray fine silty sand with trace wood debris (bark and chips) and organic matter (roots)	NS	5%		
0.1					SP	Gray fine to medium sand with occasional gravel	NS	0%		

Note: See Figure L-1 for explanation of symbols.

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Log of Boring MAF-SS-61		
	Project:	Weyerhaeuser Mill A Former
	Project Location:	Everett, Washington
	Project Number:	0676-020-06
		Figure L-61 Sheet 1 of 1

Start Drilled	11/11/2015	End	11/11/2015	Total Depth (ft)	25	Logged By	RST	Checked By	IHW	Driller	Cascade Drilling, LP	Drilling Method	Sonic
Mudline Elevation (ft)	-6.4			Vertical Datum	-6.4 MLLW			Drilling Equipment	100C Limited Access				
Easting (X)	1299010.6			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Depth to Mudline (ft)	Water Elevation (ft)			
Northing (Y)	358823.83							Time Measured	8:00:00 AM	17.4	11		
Notes: Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 5 (ft)													

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample						
0		78			WD	Brown wood debris (sawdust and chips)	NS	100%	No odor	
				MAF-SC-01_0-2 MAF-SC-Dup-01 CA						
				MAF-SC-01_2-4 CA			NS	100%	Moderate odor	
				MAF-SC-01_4-6 CA		Grades with medium to coarse sand with occasional shell fragments and trace wood debris (chips)	NS	90%	Heavy H ₂ S odor	
5		96								
				MAF-SC-01_8-10			NS	100%	Heavy H ₂ S odor	
10		88			SP	Dark brown to black fine to coarse sand with wood debris (sawdust) and occasional shell fragments	NS	50%	Moderate H ₂ S odor	
				MAF-SC-01_12-14	SP	Gray fine sand with trace shell fragments and wood debris (lumber)	NS	<1%	No odor	
						Grades with trace shell fragments	NS	0%	No odor	

Note: See Figure L-1 for explanation of symbols.

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Log of Boring MAF-SC-01



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-62
 Sheet 1 of 2

Elevation (feet)	FIELD DATA				Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample Sample Name Testing					
15		75							
				MAF-SC-01_16-18			NS	0%	No odor
							NS	0%	No odor
25					SP	Gray medium to coarse sand			
					SP	Gray fine to medium sand with trace shell fragments			
20		94		MAF-SC-01_20-22 CA	SP	Gray fine sand	NS	0%	No odor
							NS	0%	No odor
30							NS	0%	No odor
25							NS	0%	No odor

Sediment core completed at 25 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-01 (continued)



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-62
 Sheet 2 of 2

Start Drilled	11/10/2015	End	11/10/2015	Total Depth (ft)	25	Logged By	RST	Checked By	IHW	Driller	Cascade Drilling, LP	Drilling Method	Sonic
Mudline Elevation (ft)	-7.6			Vertical Datum	-7.6 MLLW			Drilling Equipment	100C Limited Access				
Easting (X)	1299140.44			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Depth to Mudline (ft)	Water Elevation (ft)			
Notes:	Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 5 (ft)							Time Measured	1:45:00 PM	18.6	11		

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample						
0	76				WD	Dark brown to black wood debris (sawdust) with trace shell fragments	NS	100%	No odor	
			MAF-SC-02_0-2 CA							
			MAF-SC-02_2-4 CA							
					WD	Dark brown to black wood debris (sawdust) with trace shell fragments	NS	100%	No odor	
			MAF-SC-02_4-6 CA							
			MAF-SC-02_8-10							
5	92				ML	Gray silt with dark brown to black wood debris (sawdust) and trace shell fragments	SS	100%	Grades with trace metal debris (wire)	
			MAF-SC-02_12-14							
10	100				ML	Gray silt with dark brown to black wood debris (sawdust) and trace shell fragments	NS	50%	Moderate H ₂ S odor	
15					ML	Gray silt with dark brown to black wood debris (sawdust) and trace shell fragments	NS	50%	Slight H ₂ S odor	

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-02



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-63
 Sheet 1 of 2

Seattle, Date: 10/21/19 Path: W:\PROJECTS\00676020\GINT\067602004.GPJ\DBT\template\lbt\template.GEOENGINEERS8.GDT\GEB6 ENVIRONMENTAL STANDARD

Elevation (feet)	FIELD DATA				Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample Sample Name Testing					
15		100		MAF-SC-02_16-18	ML	Gray silt with sand, occasional shell fragments and wood debris (fibers and lumber)	NS	25%	Moderate H ₂ S odor
20		82		MAF-SC-02_20-22 CA	SP	Gray fine to medium sand with occasional shell fragments	NS	0%	No odor
25							NS	0%	No odor
							NS	0%	No odor

Sediment core completed at 25 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-02 (continued)



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-63
 Sheet 2 of 2

Seattle: Date: 10/21/19 Path: W:\PROJECTS\00676020\GINT\067602004.GPJ\DTemplates\GEOENGINEERS8.GDT\GEB_ENVIRONMENTAL_STANDARD

Start Drilled	11/11/2015	End	11/11/2015	Total Depth (ft)	25	Logged By	RST	Checked By	IHW	Driller	Cascade Drilling, LP	Drilling Method	Sonic
Mudline Elevation (ft)	-13.35			Vertical Datum	-13.35 MLLW			Drilling Equipment	100C Limited Access				
Easting (X)	1298947.6			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Northing (Y)	358923.15			Notes: Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 5 (ft)				10:30:00 AM	18.6	5.25			

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample						
0	78				WD	Brown wood debris (sawdust)	NS	100%	Heavy H ₂ S odor	
			MAF-SC-03_0-2 Dup-03 CA							
			MAF-SC-03_2-4 CA							
					WD	Brown wood debris (sawdust and chips)	NS	100%	Heavy H ₂ S odor	
			MAF-SC-03_4-6 CA							
			MAF-SC-03_8-10 Dup-04 CA							
					WD	Brown wood debris (sawdust and chips)	NS	100%	Heavy H ₂ S odor	
			MAF-SC-03_12-14							

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-03



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-64
 Sheet 1 of 2

Seattle, Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\067602004.GPJ\DBT\template\GEOENGINEERS\GDT\GEB6 ENVIRONMENTAL STANDARD

Elevation (feet)	FIELD DATA				MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample Sample Name Testing				
15		100						
30				MAF-SC-03_16-18				Heavy H ₂ S odor
						NS	100%	Heavy H ₂ S odor
					WD	NS	80%	Heavy H ₂ S odor
20		92			SP	NS	0%	No odor
				MAF-SC-03_21-23				No odor
						NS	0%	No odor
25						NS	0%	No odor

Sediment core completed at 25 feet below mudline

Note: See Figure L-1 for explanation of symbols.

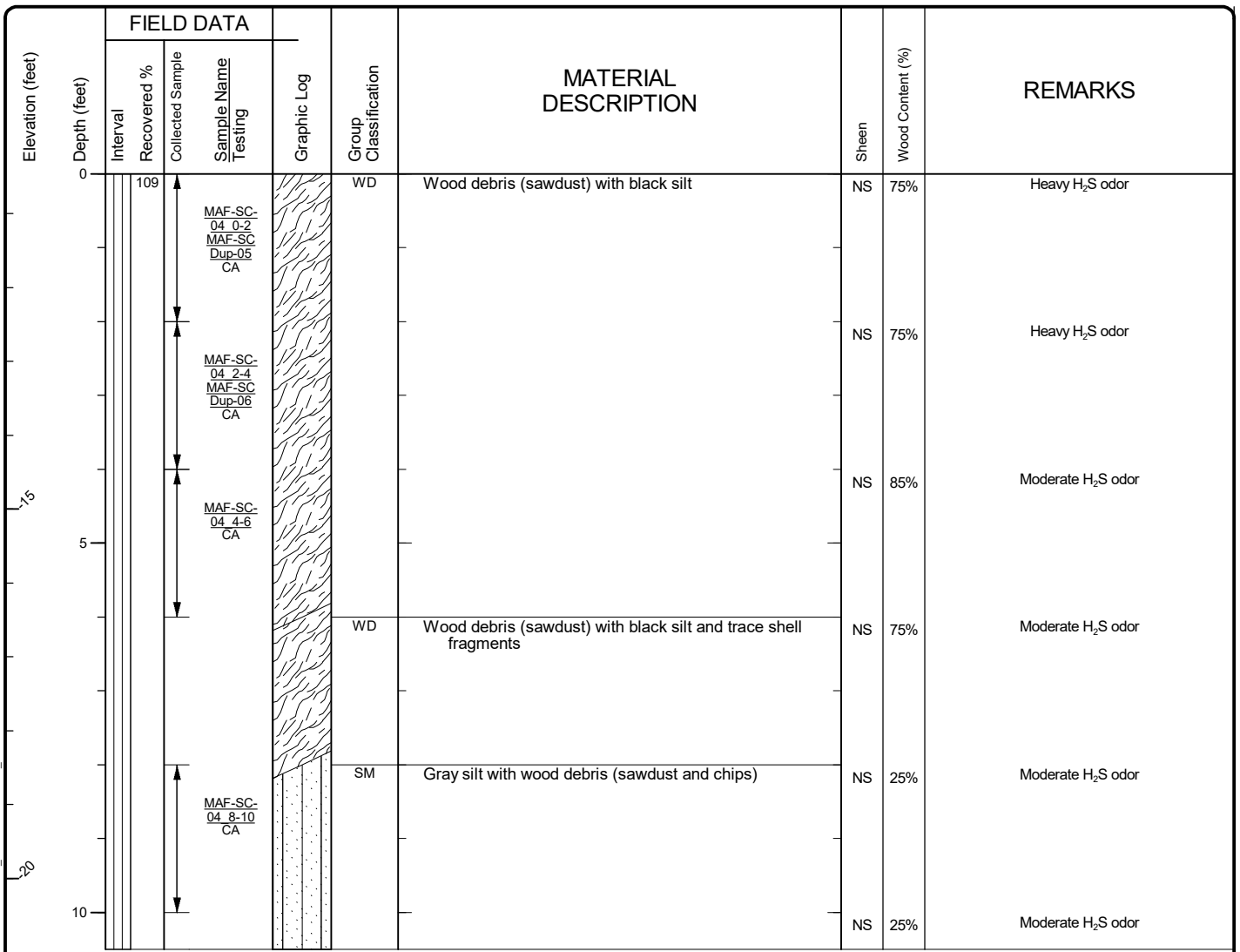
Log of Boring MAF-SC-03 (continued)



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-64
 Sheet 2 of 2

Start Drilled	10/26/2015	End	10/26/2015	Total Depth (ft)	10.5	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore	
Mudline Elevation (ft)	-10.46			Vertical Datum	-10.46 MLLW			Drilling Equipment	Research Vessel Titan					
Easting (X)	1299156.77			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	9:21:00 AM	Depth to Mudline (ft)	15.21	Water Elevation (ft)	4.75
Notes:	Core Tube Data: ID 0.33 (ft), OD 0.31 (ft), Length 12 (ft)													



Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-04(a)



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-65
 Sheet 1 of 1

Seattle, Date: 10/21/19 Path: \\PROJECTS\0676020\GINT\067602004.GPJ\DBT\template\GEOENGINEER\88_GDT\GEB6_ENVIRONMENTAL_STANDARD

Start Drilled	11/10/2015	End	11/10/2015	Total Depth (ft)	20	Logged By	RST	Checked By	IHW	Driller	Cascade Drilling, LP	Drilling Method	Sonic
Mudline Elevation (ft)	-24.4			Vertical Datum	-24.4 MLLW			Drilling Equipment	100C Limited Access				
Easting (X)	1299166.86			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Notes:	Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 5 (ft)							8:30:00 AM	30.4	6			

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample						
0		66					Limited recovery - refer to log of boring MAF-SC-04(a) for material description			
5		0								
10		100				SM	Gray silty fine to medium sand with occasional shell fragments and wood debris (sawdust, chips, and fibers)	NS	25%	Heavy H ₂ S odor
							Grades to decreasing sawdust	NS	25%	Moderate H ₂ S odor
15								NS	25%	Moderate H ₂ S odor

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-04(b)



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-66
 Sheet 1 of 2

Seattle: Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\067602004.GPJ\DBT\template\GEOENGINEERS\GDT\GEB6 ENVIRONMENTAL_STANDARD

Seattle: Date: 10/21/19 Path: \\PROJECTS\0676020\GINT\067602004.GPJ\DBT\template\GEOENGINEERS\GDT\GEB_ENVIRONMENTAL_STANDARD

Elevation (feet)	FIELD DATA				MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample Sample Name Testing				
15		100			SP			
				MAF-SC-04_16-18		NS	0%	No odor
				MAF-SC-04_18-20		NS	0%	No odor
20	Sediment core completed at 20 feet below mudline							

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-04(b) (continued)



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Start Drilled	11/11/2015	End	11/11/2015	Total Depth (ft)	15	Logged By	RST	Checked By	IHW	Driller	Cascade Drilling, LP	Drilling Method	Sonic
Mudline Elevation (ft)	-10.05			Vertical Datum	-10.05 MLLW			Drilling Equipment	100C Limited Access				
Easting (X)	1299435.11			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Depth to Mudline (ft)	Water Elevation (ft)			
Notes:	Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 5 (ft)							Time Measured	12:50:00 PM	19.3	9.25		

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample						
0	82				WD	Brown wood debris (chips and sawdust) and silt	NS	100%	Heavy H ₂ S odor	
			MAF-SC-05_0-2 CA							
			MAF-SC-05_2-4							
			MAF-SC-05_4-6 CA							
5	94									
			MAF-SC-05_8-10	SP	Gray fine sand with trace shell fragments	NS	100%	Heavy H ₂ S odor		
10	78									
			MAF-SC-05_12-14							
15										

Sediment core completed at 15 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-05



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-67
 Sheet 1 of 2

Seattle: Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\0676020\04.GPJ\DTTemplate\libTemplate\GEOENGINEER\88_GDT\GEB6_ENVIRONMENTAL_STANDARD

Start Drilled	10/29/2015	End	10/29/2015	Total Depth (ft)	5	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	-41.6			Vertical Datum	-41.6 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1299660.87			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Northing (Y)	359679.91							2:54:00 PM	50.85	9.25			
Notes: Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 10 (ft)													

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Shells	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample						
0		75				ML	Dark brown silt and occasional wood debris (chips)	NS	10%	Moderate H ₂ S odor
						SP	Gray fine sand with occasional shell fragments	NS	0%	No odor
5								NS	0%	No odor

Sediment core completed at 5 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-07



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-68
 Sheet 1 of 1

Start Drilled	10/29/2015	End	10/29/2015	Total Depth (ft)	9	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	-57.42			Vertical Datum	-57.42 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1299080.38			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Northing (Y)	356521.61							2:01:00 PM	63.42	6			
Notes: Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 10 (ft)													

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample						
0		84			ML	Dark brown silt and trace wood debris (chips and sawdust)	NS	<5%	Heavy H ₂ S odor	
				MAF-SC-10_0-2 MAF-SC-Dup-07 CA						
				MAF-SC-10_2-4 CA			NS	10%	Heavy H ₂ S odor	
				MAF-SC-10_4-6	SM	Gray-brown silty fine sand and occasional wood debris (sawdust)	NS	15%	Heavy H ₂ S odor	
5					WD	Light brown wood layer (lumber)	NS	100%		
					SM	Gray silty fine sand and trace wood debris (bark)	NS	<1%	No odor	
				MAF-SC-10_6-7.6			NS	0%	No odor	

Sediment core completed at 9 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-10



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-69
 Sheet 1 of 1

Seattle: Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\067602004.GPJ\DBT\template\GEOENGINEERS8.GDT\GEB6_ENVIRONMENTAL_STANDARD

Start Drilled	10/28/2015	End	10/28/2015	Total Depth (ft)	11	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore	
Mudline Elevation (ft)	-57.36			Vertical Datum	-57.36 MLLW			Drilling Equipment	Research Vessel Titan					
Easting (X)	1298798.22			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Depth to Mudline (ft)	Water Elevation (ft)				
Northing (Y)	359015.68			Notes: Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 12 (ft)				Time Measured	3:05:00 PM	66.86	9.5			

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample						
0	98					ML	Black silt with wood debris (chips)	NS	25%	Heavy H ₂ S odor
							MAF-SC-11_0-2 CA			
						ML	Brown silt with wood debris (sawdust and twigs)	NS	50%	Heavy H ₂ S odor
							MAF-SC-11_2-4 CA			
							MAF-SC-11_4-6	NS	75%	Heavy H ₂ S odor
5							Grades to black			
						SP	Brown fine to medium sand with occasional shell fragments	NS	0%	No odor
							MAF-SC-11_6-8			
							MAF-SC-11_8-10	NS	0%	No odor
10							MAF-SC-11_10-11	NS	0%	No odor

Sediment core completed at 11 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-11



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-70
 Sheet 1 of 1

Start Drilled	10/28/2015	End	10/28/2015	Total Depth (ft)	12	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	-55.95			Vertical Datum	-55.95 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1298470.3			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Depth to Mudline (ft)	Water Elevation (ft)			
Notes:	Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 14 (ft)							Time Measured	11:31:00 AM	60.7	4.75		

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample						
0		97				ML	Black silt and occasional wood debris (chips)	NS	10%	Heavy H ₂ S odor
				MAF-SC-12_0-2 CA						
						ML	Gray silt with trace shell fragments and wood debris (chips)	NS	<5%	Moderate H ₂ S odor
				MAF-SC-12_2-4 CA						
60						SM	Brown silty fine sand with trace shell fragments	NS	0%	No odor
				MAF-SC-12_5-6				NS	0%	No odor
				MAF-SC-12_6-8				NS	0%	No odor
							With increased sand content	NS	0%	No odor
				MAF-SC-12_8-10				NS	0%	No odor
				MAF-SC-12_10-12				NS	0%	No odor

Sediment core completed at 12 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-12



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-71
 Sheet 1 of 1

Seattle, Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\067602004.GPJ\DBT\template\GEOENGINEERS\GDT\GEB\ ENVIRONMENTAL_STANDARD

Start Drilled	10/27/2015	End	10/27/2015	Total Depth (ft)	6	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	-44.56			Vertical Datum	-44.56 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1298258.31			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Notes:	Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 10 (ft)							2:35:00 PM	53.21	8.65			

Elevation (feet)	FIELD DATA				Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample					
0		77			SM	Gray silty fine sand and trace wood debris (chips)	NS	5%	Heavy H ₂ S odor
				MAF-SC-13_0-2	SP	Gray fine to coarse sand	NS	0%	No odor
				MAF-SC-13_2-4	SP	Gray fine to coarse sand with trace shell fragments	NS	0%	No odor
				MAF-SC-13_4-6	NS		NS	0%	No odor
5					SP	Gray fine to coarse sand	NS	0%	No odor

Sediment core completed at 6 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-13



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-72
 Sheet 1 of 1

Start Drilled	10/28/2015	End	10/28/2015	Total Depth (ft)	4.5	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	-2.41			Vertical Datum	-2.41 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1298324.57			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Northing (Y)	358015.92							2:10:00 PM	7.9	5.49			
Notes: Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 10 (ft)													

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample						
0		95				SP	Gray fine to medium sand	NS	0%	No odor
				MAF-SC-14_0-2						
				MAF-SC-14_2-3				NS	0%	No odor
				MAF-SC-14_3.5-4.5		SM	Brown silty fine sand with occasional shell fragments	NS	0%	No odor

Sediment core completed at 4.5 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-14



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-73
 Sheet 1 of 1

Start Drilled	10/28/2015	End	10/28/2015	Total Depth (ft)	7.5	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	3.65			Vertical Datum	3.65 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1298406.12			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Notes:	Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 10 (ft)							9:38:00 AM	4.1	7.75			

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample						
0		86			SM	Light brown silty fine sand	NS	0%	No odor	
				MAF-SC-15_0-2	SP	Black fine to medium sand and trace wood debris (bark)	NS	<5%	No odor	
				MAF-SC-Dup-08 CA	SM	Brown silty fine sand and wood debris (chips)	NS	<1%	No odor, trace organic matter (roots)	
				MAF-SC-15_2-4	SM	Gray silty fine sand with occasional gravel and trace shell fragments	NS	0%	No odor	
				MAF-SC-15_4-6	SP	Gray fine to medium sand with occasional gravel and trace wood debris (chips)	NS	<1%	No odor	
						With increased gravel content				
				MAF-SC-15_6-7.5	GP	Gray fine to coarse rounded gravel with sand and silt	NS	0%	No odor	
					GP	Black silty fine to coarse gravel	NS	0%		

Sediment core completed at 7.5 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-15



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-74
 Sheet 1 of 1

Seattle, Date: 10/21/19 Path: W:\PROJECTS\0067620\GINT\067620\04.GPJ\DBT\template\GEOENGINEERS\GDT\GEB_ENVIRONMENTAL_STANDARD

Start Drilled	10/28/2015	End	10/28/2015	Total Depth (ft)	4	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	3.05			Vertical Datum	3.05 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1298201.21			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Northing (Y)	357348.06			Notes: Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 10 (ft)				9:50:00 AM	3.22	6.27			

Elevation (feet)	FIELD DATA				Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample Sample Name Testing					
0		81			SP	Light brown fine sand	NS	0%	No odor
					GP	Brown fine gravel with sand and trace shell fragments	NS	0%	No odor
			MAF-SC-16_1-2		SP	Brown fine to coarse sand with occasional gravel	NS	0%	No odor
			MAF-SC-16_2-4		GP	Increased gravel content Brown coarse gravel with sand	NS	0%	No odor

Sediment core completed at 4 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-16



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-75
 Sheet 1 of 1

Seattle: Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\067602004.GPJ\DBT\template\GEOENGINEERS8.GDT\GEB6_ENVIRONMENTAL_STANDARD

Start Drilled	10/27/2015	End	10/27/2015	Total Depth (ft)	9	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	0.9			Vertical Datum	0.9 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1298060.17			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Northing (Y)	357718.78							3:55:00 PM	10.6	11.5			
Notes: Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 10 (ft)													

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample						
0		77				SM	Gray silty fine sand and trace wood debris	NS	<5%	No odor, occasional flat worms
				MAF-SC-17_0-2						
						SP	Gray fine to coarse silty sand with gravel	NS	0%	No odor
				MAF-SC-17_2-4						
						SP	Gray fine to coarse sand			
						SP	Gray fine to coarse sand with gravel	NS	0%	No odor
5				MAF-SC-17_4-6						
						SP	Gray fine to coarse sand with gravel and trace shell fragments	NS	0%	No odor
				MAF-SC-17_8-9				NS	0%	No odor

Sediment core completed at 9 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-17



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-76
 Sheet 1 of 1

Seattle: Date: 10/21/19 Path: W:\PROJECTS\0067620\GINT\067620\04.GPJ_DBT\template\GEOENGINEERS8_GDT\GEB6_ENVIRONMENTAL_STANDARD

Start Drilled	10/27/2015	End	10/27/2015	Total Depth (ft)	8	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	-25.7			Vertical Datum	-25.7 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1298050.72			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Notes:	Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 10 (ft)							11:12:00 AM	29.2	3.5			

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample						
0		77			SM	Gray silty fine sand and trace wood debris (chips)	NS	<1%	No odor	
				MAF-SC-18_0-2						
					ML	Gray silt and trace wood debris (twigs) and shell fragments	NS	<5%	Moderate H ₂ S odor, trace organic matter (roots)	
				MAF-SC-18_2-4					Heavy H ₂ S odor	
				MAF-SC-18_4-6					Heavy H ₂ S odor	
				MAF-SC-18_6-7		Increased wood debris from 6 to 6.5 feet (twigs, chips and bark)	NS	<5%	Heavy H ₂ S odor	
					SP	Gray medium sand with occasional gravel	NS	0%	No odor	
				MAF-SC-18_7-8						

Sediment core completed at 8 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-18



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-77
 Sheet 1 of 1

Seattle, Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\067602004.GPJ\DBT\template\GEOENGINEERS\GDT\GEB_ENVIRONMENTAL_STANDARD

Start Drilled	10/28/2015	End	10/28/2015	Total Depth (ft)	10	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	-82.99			Vertical Datum	-82.99 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1298167.75			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Northing (Y)	358645.08							12:05:00 PM	87.99	5			
Notes: Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 12 (ft)													

Elevation (feet)	FIELD DATA				Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS	
	Depth (feet)	Interval	Recovered %	Collected Sample						Sample Name Testing
0		78			MAF-SC-19_0-2	ML	Gray silt and trace wood debris (bark)	NS	<1%	No odor, occasional worms
						SM	Gray silty fine sand with trace shell fragments	NS	0%	No odor
					MAF-SC-19_2-4	SP	Gray fine to medium sand with occasional shell fragments	NS	0%	No odor
					MAF-SC-19_4-6			NS	0%	No odor
					MAF-SC-19_6-8			NS	0%	No odor
					MAF-SC-19_8-10			NS	0%	No odor
10	Sediment core completed at 10 feet below mudline									

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-19



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-78
 Sheet 1 of 1

Seattle: Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\067602004.GPJ\DBT\template\GEOENGINEER\$8_GDT\GEB6_ENVIRONMENTAL_STANDARD

Start Drilled	10/29/2015	End	10/29/2015	Total Depth (ft)	4.5	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	-78.59			Vertical Datum	-78.59 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1298481.99			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Notes:	Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 10 (ft)							11:42:00 AM	84.84	6.25			

Elevation (feet)	FIELD DATA				Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample					
0		100			SM	Brown silty fine sand with trace shell fragments and trace wood debris (chips)	NS	<1%	No odor
				MAF-SC-20_0-1					
				MAF-SC-20_1-2	SP	Brown fine sand and trace wood debris (chips)	NS	<1%	
				MAF-SC-20_2-3					
				MAF-SC-20_3-4,5	SP	Brown fine sand with trace shell fragments	NS	0%	
							NS	0%	

Sediment core completed at 4.5 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-20



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-79
 Sheet 1 of 1

Start Drilled	10/29/2015	End	10/29/2015	Total Depth (ft)	6	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	-68.71			Vertical Datum	-68.71 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1298786.12			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Notes:	Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 12 (ft)							12:42:00 PM	75.46	6.75			

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample						
0		60				SM	Dark brown silty fine sand and occasional wood debris (bark, sawdust and chips)	NS	10%	Moderate H ₂ S odor, trace worms
				MAF-SC-21_0-1 MAF-SC-Dup-09 CA		ML	Dark brown silt with occasional wood debris (bark, sawdust and chips)	NS	5%	No odor
				MAF-SC-21_1-2		SP	Brown fine sand with occasional shell fragments	NS	0%	No odor
				MAF-SC-21_2-4 CA		SP	Gray fine sand with occasional shell fragments	NS	0%	No odor
5				MAF-SC-21_4-6						

Sediment core completed at 6 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-21



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-80
 Sheet 1 of 1

Start Drilled	10/27/2015	End	10/27/2015	Total Depth (ft)	10	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	-3.34			Vertical Datum	-3.34 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1297796.02			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Notes:	Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 10 (ft)							10:43:00 AM	7.09	3.75			

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample						
0		85				SP	Brown fine to medium sand with trace gravel and wood debris (chips)	NS	<5%	No odor, occasional clams, trace shells
5				MAF-SC-23_0-2		SP	Gray fine to medium sand	NS	0%	No odor
5				MAF-SC-23_2-4		SM	Brown silty fine to medium sand with trace gravel and wood debris (chips, bark and twigs)	NS	<1%	Slight H ₂ S odor
10				MAF-SC-23_5-6		NS		NS	<1%	Slight H ₂ S odor
10				MAF-SC-23_6-8		NS		NS	<1%	Slight H ₂ S odor
10				MAF-SC-23_8-10		SP	Gray medium sand	NS	0%	Slight H ₂ S odor
						SM	Brown silty fine sand and trace wood debris (chips)	NS	<1%	Slight H ₂ S odor
						SP	Gray medium sand	NS	0%	Slight H ₂ S odor
							Sediment core completed at 10 feet below mudline			

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-23



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-81
 Sheet 1 of 1

Seattle: Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\067602004.GPJ\DBT\template\GEOENGINEER\8_GDT\GEB_ENVIRONMENTAL_STANDARD

Start Drilled	10/26/2015	End	10/26/2015	Total Depth (ft)	4.8	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	4.66			Vertical Datum	4.66 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1298007.36			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Northing (Y)	357331.05							1:55:00 PM	4.59	9.25			
Notes: Core Tube Data: ID 0.33 (ft), OD 0.31 (ft), Length 10 (ft)													

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Interval	Recovered %	Collected Sample	Sample Name Testing						
0	92				SP	Brown fine to medium sand with gravel and trace shells	NS	0%	Occasional clams, no odor	
			MAF-SC-24_1-2							
			MAF-SC-24_2-4		GP	Brown fine to coarse gravel with sand	NS	0%	No odor	

Sediment core completed at 4.8 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-24



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-82
 Sheet 1 of 1

Start Drilled	10/26/2015	End	10/26/2015	Total Depth (ft)	4	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	3.44			Vertical Datum	3.44 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1298140.47			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Northing (Y)	357487.03							2:47:00 PM	6.56	10			
Notes: Core Tube Data: ID 0.33 (ft), OD 0.31 (ft), Length 10 (ft)													

Elevation (feet)	FIELD DATA				Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample					
0		81			SP	Brown fine to medium sand with trace gravel and shell fragments	NS	0%	No odor
				MAF-SC-25_1-2	SW	Brown fine to coarse sand with occasional gravel and occasional shell fragments	NS	0%	No odor
				MAF-SC-25_2-4	SP	Brown fine to medium sand with occasional gravel and trace wood debris (bark)	NS	<1%	No odor

Sediment core completed to 4 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-25



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-83
 Sheet 1 of 1

Start Drilled	10/29/2015	End	10/29/2015	Total Depth (ft)	3	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	7.14			Vertical Datum	7.14 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1298067.73			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Northing (Y)	357151.88			Notes: Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 10 (ft)				8:50:00 AM	3.61	10.75			

Elevation (feet)	FIELD DATA				Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Interval	Recovered %	Collected Sample	Sample Name Testing					
0	92			MAF-SC-26_1-2	SP	Brown fine sand with occasional gravel and trace wood debris (twigs)	NS	<1%	No odor
5				MAF-SC-26_2-3	GP	Brown fine to coarse gravel with sand	NS	0%	No odor

Sediment core completed at 3 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-26



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-84
 Sheet 1 of 1

Start Drilled	10/29/2015	End	10/29/2015	Total Depth (ft)	3.5	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	7.02			Vertical Datum	7.02 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1298123.09			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Northing (Y)	357225.9							8:15:00 AM	4.23	11.25			
Notes: Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 10 (ft)													

Elevation (feet)	FIELD DATA				Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample						
0		86				SP	Brown fine to medium sand with gravel	NS	0%	No odor
				MAF-SC-27_1-2		SP	Black fine to medium sand with occasional gravel	NS	0%	No odor, organic matter (leaves)
5				MAF-SC-27_2-3.5		SP	Gray-brown fine sand with occasional gravel	NS	0%	No odor

Sediment core completed at 3.5 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-27



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-85
 Sheet 1 of 1

Start Drilled	10/29/2015	End	10/29/2015	Total Depth (ft)	8	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore	
Mudline Elevation (ft)	2.94			Vertical Datum	2.94 MLLW			Drilling Equipment	Research Vessel Titan					
Easting (X)	1297839.1			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	9:42:00 AM	Depth to Mudline (ft)	5.81	Water Elevation (ft)	8.75
Notes: Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 10 (ft)														

Elevation (feet)	FIELD DATA				Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample					
0		90							
				MAF-SC-28_0-2	SW	Brown fine to coarse sand with occasional gravel with trace shell fragments and trace wood debris (bark)	NS	<1%	No odor
				MAF-SC-28_2-4			NS	0%	No odor
				MAF-SC-28_4-6	SP	Gary fine to coarse sand with occasional gravel	NS	0%	No odor
				MAF-SC-28_6-8			NS	0%	No odor

Sediment core completed at 8 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-28



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-86
 Sheet 1 of 1

Seattle: Date: 10/21/19 Path: W:\PROJECTS\0067620\GINT\067620\04.GPJ\DBT\template\GEOENGINEERS8.GDT\GEB6_ENVIRONMENTAL_STANDARD

Start Drilled	10/27/2015	End	10/27/2015	Total Depth (ft)	8	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	3.29			Vertical Datum	3.29 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1297828.05			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Depth to Mudline (ft)	Water Elevation (ft)			
Notes:	Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 10 (ft)							Time Measured	8:48:00 AM	3.71	7		

Elevation (feet)	FIELD DATA				Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample					
0		75			SW	Brown fine to coarse sand with trace gravel and occasional shell fragments	NS	0%	No odor, occasional clams to 1 foot, occasional shell fragments
				MAF-SC-29_0-2		With increased gravel content			
				MAF-SC-29_2-4	SM	Gray-brown silty fine to medium sand with occasional gravel	NS	0%	No odor
				MAF-SC-29_4-6	SM	Gray silty fine sand with trace gravel	NS	0%	No odor
				MAF-SC-29_6-8	GP-GM	Gray fine gravel with sand and silt	NS	0%	No odor

Sediment core completed at 8 feet below mudline

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-29



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-87
 Sheet 1 of 1

Seattle: Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\067602004.GPJ\DBT\template\GEOENGINEERS8_GDT\GEB6_ENVIRONMENTAL_STANDARD

Start Drilled	10/27/2015	End	10/27/2015	Total Depth (ft)	10	Logged By	RST	Checked By	IHW	Driller	Gravity Environmental, LLC	Drilling Method	Vibracore
Mudline Elevation (ft)	2.1			Vertical Datum	2.1 MLLW			Drilling Equipment	Research Vessel Titan				
Easting (X)	1297832.22			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Notes:	Core Tube Data: ID 0.31 (ft), OD 0.33 (ft), Length 10 (ft)							9:20:00 AM	3.9	6			

Elevation (feet)	FIELD DATA				Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample					
0		80			SM	Brown silty fine sand with occasional shells	NS	0%	No odor, occasional 2-inch clams
				MAF-SC-30_0-2	SP	Brown fine to coarse sand with occasional gravel, shell fragments and trace wood debris (chips)	NS	<1%	No odor
				MAF-SC-30_2-4	SP	Brown fine to medium sand with occasional gravel and trace wood debris (fibers)	NS	<1%	No odor
				MAF-SC-30_4-6			NS	<1%	No odor
				MAF-SC-30_8-10	SW	Gray fine to coarse sand with occasional gravel and trace wood debris (fibers and chips)	NS	<1%	No odor
10	Sediment core completed at 10 feet below mudline								

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-30



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-04

Figure L-88
 Sheet 1 of 1

Seattle: Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\067602004.GPJ\DBT\template\LT\template.GEOENGINEERS8_GDT\GEB6_ENVIRONMENTAL_STANDARD

Start Drilled 11/12/2018	End 11/12/2018	Total Depth (ft) 10	Logged By Checked By RST RST	Driller Gravity Marine Service	Drilling Method Vibracore
Mudline Elevation (ft)	-43.5	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1297941.65 358157.03	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				9:00:00 AM	54.5 11

Elevation (feet)	FIELD DATA				MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample Sample Name Testing				
0		95						
45				MAF-SC-55 0-2	Gray fine to coarse sand 3-inch-diameter rock in sampler	NS	0%	
				MAF-SC-55 2-4		NS	0%	
				MAF-SC-55 4-6		NS	0%	
5				MAF-SC-55 6-8		NS	0%	
				MAF-SC-55 8-10		NS	0%	
10								

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-55



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-06

Refmond: Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\0676020\06.GPJ DBT template: G:\GEOENGINEERS8.GDT\GEB_ENVIRONMENTAL_STANDARD

Start Drilled	11/12/2018	End	11/12/2018	Total Depth (ft)	10	Logged By	RST	Checked By	RST	Driller	Gravity Marine Service	Drilling Method	Vibracore
Mudline Elevation (ft)	-45.8			Vertical Datum	MLLW			Drilling Equipment	Research Vessel Tieton				
Easting (X)	1298332.6			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Depth to Mudline (ft)	Water Elevation (ft)			
Notes:								Time Measured	10:30:00 AM	56	10.2		

Elevation (feet)	FIELD DATA				Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample Sample Name Testing					
0		95		MAF-SC-56 0-2 CA	SP	Gray fine to medium sand with trace shell fragments	NS	<5%	
			MAF-SC-56 2-4 CA DUP07 CA	NS			0%		
5				MAF-SC-56 4-6	SM	Gray silty fine to medium sand with trace shell fragments	NS	0%	
			MAF-SC-56 6-8	NS			0%		
			MAF-SC-56 8-10	NS			0%		

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-56



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-06

Figure L-90
 Sheet 1 of 1

Refmond: Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\0676020\06.GPJ DBT template.lbr Template: GEOENGINEERS8.GDT\GEB_ENVIRONMENTAL_STANDARD

Start Drilled	11/13/2018	End	11/13/2018	Total Depth (ft)	10	Logged By	RST	Checked By	RST	Driller	Gravity Marine Service	Drilling Method	Vibracore
Mudline Elevation (ft)	-42.3			Vertical Datum	MLLW			Drilling Equipment	Research Vessel Tieton				
Easting (X)	1298477.44			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Depth to Mudline (ft)	Water Elevation (ft)			
Notes:								Time Measured	11:25:00 AM	52.5	10.2		

Elevation (feet)	FIELD DATA				Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample					
0		87			SM	Gray silty sand with occasional wood debris (twigs)	NS	15%	
				MAF-SC-57 0-2 CA	SP	Gray fine to medium sand with rare shell fragments			
45				MAF-SC-57 2-4 CA			NS	0%	
				MAF-SC-57 4-6			NS	0%	
5				MAF-SC-57 6-8			NS	0%	
				MAF-SC-57 8-9.8			NS	0%	
10									

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-57



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-06

Figure L-91
 Sheet 1 of 1

Refmond: Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\067602006.GPJ DBT template\lbr Template: GEOENGINEERS8.GDT\GEB_ENVIRONMENTAL_STANDARD

Start Drilled 11/13/2018	End 11/13/2018	Total Depth (ft) 10	Logged By Checked By RST RST	Driller Gravity Marine Service	Drilling Method Vibracore
Mudline Elevation (ft)	-37.2	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1298415.48 358559.44	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				9:50:00 AM	48 10.8

Elevation (feet)	FIELD DATA				Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample Sample Name Testing					
0		97			ML	Gray silt with wood debris (chips and bark)	NS	35%	Moderate H ₂ S odor to 2 feet
				MAF-SC-58 0-2					
				MAF-SC-58 2-4 CA	SM	Gray silty fine sand with rare shell fragments	NS	0%	
				MAF-SC-58 4-6			NS	0%	
				MAF-SC-58 6-8			NS	0%	
				MAF-SC-58 8-10	SP	Gray fine sand	NS	0%	

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-58



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-06

Figure L-92
 Sheet 1 of 1

Refmond: Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\0676020\06.GPJ DBT template.lbr Template: GEOENGINEERS8.GDT\GEB_ENVIRONMENTAL_STANDARD

Start Drilled	11/12/2018	End	11/12/2018	Total Depth (ft)	13	Logged By	RST	Checked By	RST	Driller	Gravity Marine Service	Drilling Method	Vibracore
Mudline Elevation (ft)	-50.9			Vertical Datum	MLLW			Drilling Equipment	Research Vessel Tieton				
Easting (X)	1298676.04			Horizontal Datum	WA State Plane, North NAD83 (feet)			Surface Water	Time Measured	Depth to Mudline (ft)	Water Elevation (ft)		
Notes:							12:40:00 PM	58.7	7.8				

Elevation (feet)	FIELD DATA				Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample Sample Name Testing					
0	0	77		MAF-SC-59 0-2	ML	Gray-brown silt with wood debris (fibers and chips)	NS	50%	
				MAF-SC-59 2-4 CA	ML	Gray silt with rare wood debris (fibers)	NS	<5%	
				MAF-SC-59 4-6			NS	<5%	
				MAF-SC-59 6-8 CA	SM	Gray silty fine to medium sand with rare shell fragments	NS	0%	
				MAF-SC-59 8-10			NS	0%	
				MAF-SC-59 10-12			NS	0%	

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-59



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-06

Figure L-93
 Sheet 1 of 1

Refmond: Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\0676020\06.GPJ DBT template\lbr Template: GEOENGINEERS8.GDT\GEB_ENVIRONMENTAL_STANDARD

Start Drilled 11/12/2018	End 11/12/2018	Total Depth (ft)	14.5	Logged By Checked By	RST RST	Driller Gravity Marine Service	Drilling Method	Vibracore	
Mudline Elevation (ft)		-39.5		Vertical Datum		MLLW		Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)		1298657.11 358634.04		Horizontal Datum		WA State Plane, North NAD83 (feet)		Surface Water	
Notes:				Time Measured		Depth to Mudline (ft)		Water Elevation (ft)	
				11:40:00 AM		48.3		8.8	

Elevation (feet)	FIELD DATA				Group Classification	MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample Sample Name Testing					
40	0	62		MAF-SC-60 0-2		ML	Black silt and shell fragments with occasional wood debris (fibers)	NS 15%	Heavy H ₂ S odor to 6½ feet
				MAF-SC-60 2-4				NS 15%	
				MAF-SC-60 4-6		SM	Gray-black silty fine to coarse sand with gravel and occasional wood debris (fibers)	NS 10% NS <5%	
45	5			MAF-SC-60 6.5-8		SM	Gray silty fine to medium sand	NS 0%	Light H ₂ S odor to 14½ feet
				MAF-SC-60 8-10				NS 0%	
				MAF-SC-60 10-12				NS 0%	
50	10							NS 0%	
								NS 0%	

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-60



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-06

Figure L-94
 Sheet 1 of 1

Refmond: Date: 10/21/19 Path: \\P\PROJECTS\0676020\GINT\0676020\06.GPJ_DBT\template\lbr Template: GEOENGINEERS8.GDT\GEB_ENVIRONMENTAL_STANDARD

Start Drilled 11/12/2018	End 11/12/2018	Total Depth (ft) 9.75	Logged By Checked By RST RST	Driller Gravity Marine Service	Drilling Method Vibracore
Mudline Elevation (ft)	-39.5	Vertical Datum	MLLW	Drilling Equipment	Research Vessel Tieton
Easting (X) Northing (Y)	1298159.96 358298.44	Horizontal Datum	WA State Plane, North NAD83 (feet)	Surface Water Time Measured	Depth to Mudline (ft) Water Elevation (ft)
Notes:				9:40:00 AM	54.8 15.3

Elevation (feet)	FIELD DATA				MATERIAL DESCRIPTION	Sheen	Wood Content (%)	REMARKS
	Depth (feet)	Interval	Recovered %	Collected Sample Sample Name Testing				
40	0	97						
				MAF-SC-61 0-2	Gray fine to medium sand with occasional shell fragments	NS	<5%	Piece of bark at surface
				MAF-SC-61 2-4		NS	0%	
				MAF-SC-61 4-6		NS	0%	
				MAF-SC-61 6-8		NS	0%	
				MAF-SC-61 8-9.8		NS	0%	
45								

Note: See Figure L-1 for explanation of symbols.

Log of Boring MAF-SC-61



Project: Weyerhaeuser Mill A Former
 Project Location: Everett, Washington
 Project Number: 0676-020-06

Figure L-95
 Sheet 1 of 1

Refmond: Date: 10/21/19 Path: W:\PROJECTS\0676020\GINT\067602006.GPJ DBT template\lbr Template\GEOENGINEERS8.GDT\GEB_ENVIRONMENTAL_STANDARD

Drilled	Start 4/27/2021	End 4/27/2021	Total Depth (ft)	3	Logged By Checked By	NS RST	Driller	Cascade Drilling, LLC	Drilling Method	Hand tools
Surface Elevation (ft) Vertical Datum	11.64 MLLW			Hammer Data	NA			Drilling Equipment	Hand-auger	
Easting (X) Northing (Y)	1298187.87 357188.97			System Datum	WA State Plane North NAD83 (feet)			Groundwater not observed at time of exploration		
Notes:										

Elevation (feet)	FIELD DATA					MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS		
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing					Graphic Log	Group Classification
0		12			EDP-62-0.0 CA		SP	Brown soft to medium sand with shell fragments (moist)	NS	<1	
10		12					SP	Brown-gray fine to medium sand with organic matter (moist)			
		12			EDP-62-2.0 CA		SW	Gray fine to coarse sand with gravel (moist)	NS	<1	

Note: See Figure L-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Hand-held GPS. Vertical approximated based on 2012 Port Master Survey for the South Terminal.

Log of Boring EDP-62



Project: Mill A Site
Project Location: Everett, Washington
Project Number: 0676-020-07

Figure L-96
Sheet 1 of 1

Date: 8/3/21 Path: P:\0676020\GINT\067602007.GPJ DBLibrary\Library\GEOENGINEERS_DF_STD_US_JUNE_2017.GLB\GEB_ENVIRONMENTAL_STANDARD_NO_GW

Drilled	Start 4/27/2021	End 4/27/2021	Total Depth (ft)	3	Logged By Checked By	NS RST	Driller	Cascade Drilling, LLC	Drilling Method	Hand tools
Surface Elevation (ft) Vertical Datum	11.69 MLLW		Hammer Data	NA			Drilling Equipment	Hand-auger		
Easting (X) Northing (Y)	1298221.2 357259.85		System Datum	WA State Plane North NAD83 (feet)			Groundwater not observed at time of exploration			
Notes:										

Elevation (feet)	Depth (feet)	FIELD DATA					MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS	
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Graphic Log					Group Classification
0	12				EDP-63-0.0 CA		SP	Brown fine to medium sand with shell fragments (moist)	NS	<1	
	12						SW	Gray fine to coarse sand with gravel (moist)	NS	<1	
	12				EDP-63-2.0 CA						

Note: See Figure L-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Hand-held GPS. Vertical approximated based on 2012 Port Master Survey for the South Terminal.

Log of Boring EDP-63



Project: Mill A Site
Project Location: Everett, Washington
Project Number: 0676-020-07

Figure L-97
Sheet 1 of 1

Drilled	Start 4/27/2021	End 4/27/2021	Total Depth (ft)	3	Logged By Checked By	NS RST	Driller	Cascade Drilling, LLC	Drilling Method	Hand tools
Surface Elevation (ft) Vertical Datum	11.89 MLLW			Hammer Data	NA			Drilling Equipment	Hand-auger	
Easting (X) Northing (Y)	1298247.04 357317.51			System Datum	WA State Plane North NAD83 (feet)			Groundwater not observed at time of exploration		
Notes:										

Elevation (feet)	Depth (feet)	FIELD DATA					MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS	
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Graphic Log					Group Classification
0	12				EDP64-0.0 CA		SP	Brown fine to medium sand with shell fragments (moist)	NS	<1	
10	12				EDP64-2.0 CA		SW	Dark gray fine to coarse sand with gravel (moist)	NS	<1	

Note: See Figure L-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Hand-held GPS. Vertical approximated based on 2012 Port Master Survey for the South Terminal.

Log of Boring EDP-64



Project: Mill A Site
Project Location: Everett, Washington
Project Number: 0676-020-07

Figure L-98
Sheet 1 of 1

Drilled	Start 4/27/2021	End 4/27/2021	Total Depth (ft)	3	Logged By Checked By	NS RST	Driller	Cascade Drilling, LLC	Drilling Method	Hand tools
Surface Elevation (ft) Vertical Datum	11.28 MLLW			Hammer Data	NA			Drilling Equipment	Hand-auger	
Easting (X) Northing (Y)	1298245.19 357379.02			System Datum	WA State Plane North NAD83 (feet)			Groundwater not observed at time of exploration		
Notes:										

Elevation (feet)	Depth (feet)	FIELD DATA					MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS	
		Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Graphic Log					Group Classification
0	12				EDP-65-0.0 CA		SP	Brown silty fine to coarse sand with shell fragments	NS	<1	
	12										
	12				EDP-65-2.0 CA		SW	Dark gray fine to coarse sand with gravel	NS	<1	

Note: See Figure L-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Hand-held GPS. Vertical approximated based on 2012 Port Master Survey for the South Terminal.

Log of Boring EDP-65



Project: Mill A Site
Project Location: Everett, Washington
Project Number: 0676-020-07

Figure L-99
Sheet 1 of 1

Date: 8/3/21 Path: P:\0_0676020\GINT\067602007.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GBB_ENVIRONMENTAL_STANDARD_NO_GW