

Subsurface Sediment Field Sampling
Form Rivermile 6.55 to 6.9
Siltronic Corporation
Portland, Oregon



Sampling Date:	10/8/19 945	Sampling Location:	SED-01
		Attempt #:	1
Vessel:	Carolyn Dow	Sampling Personnel:	CRW, CS
Weather Conditions:	partly cloudy, 60s, calm	Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	lead line	Captain:	Eric Parker
Gage Source (circle one):	NOAA PRT03 USGS 14211720	Deckhand:	Andrew Muth
Gage Height, Datum, Time:	0.56 ft PRD Time: 835	Sampling Equipment:	Vibracore
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North		
Proposed Coordinates:		General River Location:	RM 6.56
Latitude:	45.578255	Core Tube Length:	10-ft
Longitude:	-122.7534	Target Drive Depth:	up to 15 feet bml, as available.

Sampling Summary			
Radius from Target:	0.9'	Actual Coordinates:	
Bottom Conditions:	fan silt w/ woody debris	Latitude:	45.57825250
Mudline Elevation:	9.6' water level	Longitude:	122.75339940
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	4.3	Total Drive Length (ft):	4.5
Avg. % Recovery (= length recovered / total drive length):	95.6%		
Core Accepted (Y/N):	N, encountered refusal		

Additional Comments:
Refusal at 5 ft Odor and ^{black} stained wood in shoe sample

If core sectioned in field for transport: *not sectioned for transport*

headspace:	Section:	Length (ft):	Description at Cuts:
	A-B =		
	B-C =		
	C-D =		
	D-E =		
catcher:	Catcher (0.3 ft):		

**Subsurface Sediment Field Sampling
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Siltronic Corporation
Portland, Oregon**



Sampling Date:	10/8/19 1020	Sampling Location:	SED-01
		Attempt #:	2
Vessel:	Carolyn Dow	Sampling Personnel:	CRW CS
Weather Conditions:	partly sunny, calm	Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	lead line	Captain:	Eric Parker
Gage Source (circle one):	NOAA PRT08 USGS 14211720	Deckhand:	Andrew Math
Gage Height, Datum, Time:	0.19 ft PRD Time: 9:35	Sampling Equipment:	Vibracore
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North		
Proposed Coordinates:		General River Location:	RM 6.56
Latitude:	45.578255	Core Tube Length:	10-ft
Longitude:	-122.7534	Target Drive Depth:	up to 15 feet bml, as available.

Sampling Summary			
Radius from Target:	7.9'	Actual Coordinates:	
Bottom Conditions:	tan silt with f sand	Latitude:	45.57827170
Mudline Elevation:	13.7 water level	Longitude:	122.75338030
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	8.8	Total Drive Length (ft):	9.5
Avg. % Recovery (= length recovered / total drive length): 92.6%			
Core Accepted (Y/N): Y			

Additional Comments:
hydrocarbon-like odor and black staining in shoe of sampler

If core sectioned in field for transport:

headspace:	Section:	Length (ft):	Description at Cuts:
	A-B =		
	B-C =		
	C-D =	0 - 4.65	-
	D-E =	4.65 - 8.65	-
catcher:	Catcher (0.3 ft):	(2.00)	

aw

Subsurface Sediment Field Sampling
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Portland, Oregon



Sampling Date: <i>3 Time</i>	<i>10/8/19</i>	<i>910</i>	Sampling Location:	SED-02
			Attempt #:	<i>1</i>
Vessel:	Carolyn Dow		Sampling Personnel:	<i>CRW CS</i>
Weather Conditions:	<i>partly cloudy, 55°</i>		Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	<i>lead line</i>		Captain:	Eric Parker
Gage Source (circle one):	<i>NOAA PRT03</i>	USGS 14211720	Deckhand:	<i>Andrew Muth</i>
Gage Height, Datum, Time:	<i>1.02 ft PRD</i>	Time: <i>735</i>	Sampling Equipment:	<i>Vibracore</i>
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North			
Proposed Coordinates:			General River Location:	<i>RM 6.57</i>
Latitude:	45.57806		Core Tube Length:	<i>10-ft</i>
Longitude:	-122.753017		Target Drive Depth:	up to 16 feet bml, as available.

Sampling Summary			
Radius from Target:	<i>5.1'</i>	Actual Coordinates:	
Bottom Conditions:	<i>tan silt w/ sand</i>	Latitude:	<i>45.57805196</i>
Mudline Elevation:	<i>3.9 - water depth level</i>	Longitude:	<i>-122.75303345</i>
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	<i>8.3</i>	Total Drive Length (ft):	<i>9.7</i>
Avg. % Recovery (= length recovered / total drive length):	<i>80% 85.6%</i>		
Core Accepted (Y/N):	<i>Y</i>		

Additional Comments:
<i>Strong odor and sheen in whole sample. -may be able to get more recovery in area w/ longer core</i>

If core sectioned in field for transport:

headspace:	
catcher:	

Section:	Length (ft):	Description at Cuts:
A-B =		
B-C =		
C-D =	<i>0-4.4</i>	
D-E =	<i>4.4-8.25</i>	
Catcher (0.3 ft):	<i>CRW CS</i>	

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Sampling Date:	10/8/19 1050	Sampling Location:	SED-03
		Attempt #:	1
Vessel:	Carolyn Dow	Sampling Personnel:	CRW CS
Weather Conditions:	partly cloudy, 50s	Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	Lead Line	Captain:	Eric Parker
Gage Source (circle one):	NOAA PRT03 USGS 14211720	Deckhand:	Andrew Muth
Gage Height, Datum, Time:	0.19 ft PRD Time: 935	Sampling Equipment:	
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North		
Proposed Coordinates:		General River Location:	RM 6-65W
Latitude:	45.577562	Core Tube Length:	10-ft
Longitude:	-122.75193	Target Drive Depth:	up to 15 feet bml, as available.

Sampling Summary			
Radius from Target:	6'	Actual Coordinates:	
Bottom Conditions:	MLS	Latitude:	45.57754791
Mudline Elevation:	5" water level	Longitude:	122.75194177
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	6.2'	Total Drive Length (ft):	9.5
Avg. % Recovery (= length recovered / total drive length):		65.3%	
Core Accepted (Y/N):	N		

Additional Comments:
Silt w/ fine sand. No staining, hydrocarbon-like odor. Trace wood frags

If core sectioned in field for transport:

Section:	Length (ft):	Description at Cuts:
A-B =		
B-C =		
C-D =		
D-E =		
Catcher (0.3 ft):		

headspace:

catcher:

Subsurface Sediment Field Sampling
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Sampling Date:	10/8/19 1135	Sampling Location:	SED-03
		Attempt #:	2
Vessel:	Carolyn Dow	Sampling Personnel:	CRW CS
Weather Conditions:	Rainy, calm, 50s	Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	Lead line	Captain:	Eric Parker
Gage Source (circle one):	NOAA PRT03 USGS 14211720	Deckhand:	Andrew Math
Gage Height, Datum, Time:	-0.1 ft PRD Time: 1035	Sampling Equipment:	Vibracore
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North		
Proposed Coordinates:		General River Location:	RIM 6.65W
Latitude:	45.577562	Core Tube Length:	10-ft
Longitude:	-122.75193	Target Drive Depth:	up to 15 feet bml, as available.

Sampling Summary			
Radius from Target:	4.3'	Actual Coordinates:	
Bottom Conditions:	Silt, tan	Latitude:	45.57760915
Mudline Elevation:	5.6' - water level	Longitude:	122.75186281
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	8.6	Total Drive Length (ft):	9.5
Avg. % Recovery (= length recovered / total drive length):		90.5%	
Core Accepted (Y/N):	Y		

Additional Comments:
Sheen on outside of core. Silt w/ fragments woody fragments slight sheen on shoe sample

If core sectioned in field for transport:

headspace:	Section:	Length (ft):	Description at Cuts:
	A-B =		
	B-C =		
	C-D =	0-4.45	
	D-E =	4.45-8.45	
catcher:	Catcher (0.3 ft):	0.00	

CRW

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Sampling Date:	10/7/19 1510	Sampling Location:	SED-04
		Attempt #:	1
Vessel:	Carolyn Dow	Sampling Personnel:	crew MEM
Weather Conditions:	overcast, 60°F, calm	Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	lead line	Captain:	Eric Parker
Gage Source (circle one):	NOAA PRT03 USGS 14211720	Deckhand:	Andrew
Gage Height, Datum, Time:	2.28 ft PRD Time: 1335	Sampling Equipment:	Vibra core Rostfelder P3
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North	General River Location:	RM 6.77 W
Proposed Coordinates:		Core Tube Length:	10'
Latitude:	45.577223	Target Drive Depth:	up to 10 feet bml, as available.
Longitude:	-122.750855		

Sampling Summary			
Radius from Target:	5' 2.0'	Actual Coordinates:	
Bottom Conditions:	silt w/ sand	Latitude:	45.57721757
Mudline Elevation:	Water depth = 14.0'	Longitude:	-122.75085545
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	8.2	Total Drive Length (ft):	# 9.5'
Avg. % Recovery (= length recovered / total drive length):	86%		
Core Accepted (Y/N):	Y		

Additional Comments:
Switched to 10-ft core barrel. Sediment in shoe, tan sandy silt. No odor.

If core sectioned in field for transport:

headspace:	Section:	Length (ft):	Description at Cuts:
	A-B =		
	B-C =		
	C-D =	0-3.95	-
	D-E =	3.95-7.75	-
catcher:	Catcher (0.3 ft):	0.3	-

low

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1 end line

Sampling Date:	10/7/19 12:05	Sampling Location:	SED-05
		Attempt #:	1
Vessel:	Carolyn Dow	Sampling Personnel:	CRW MRM
Weather Conditions:	Windiest 60F, calm	Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	Sigsbee Depth Sounding	Captain:	Eric Parker
Gage Source (circle one):	NOAA PRT03 USGS 14211720	Deckhand:	Andrew Muth
Gage Height, Datum, Time:	-0.48 ft PRD Time: 10:35 AM	Sampling Equipment:	Vibra Core Rosenfeld 1P3 6.75mm
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North		
Proposed Coordinates:		General River Location:	RM 7.75 W
Latitude:	45.576971	Core Tube Length:	15'
Longitude:	-122.750634	Target Drive Depth:	up to 15 feet bml, as available.

Sampling Summary			
Radius from Target:	1.1'	Actual Coordinates:	
Bottom Conditions:	Sand	Latitude:	45.57697403
Mudline Elevation:	Water Depth = 4.2'	Longitude:	-122.75063457
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	2.2	Total Drive Length (ft):	2.5
Avg. % Recovery (= length recovered / total drive length):	89%		
Core Accepted (Y/N):	No - too short		

Additional Comments:
Vibracore refusal on wood debris

If core sectioned in field for transport:

headspace:	
catcher:	

Section:	Length (ft):	Description at Cuts:
A-B =		
B-C =		
C-D =		
D-E =		
Catcher (0.3 ft):		

Subsurface Sediment Field Sampling
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lead line

Sampling Date:	10/7/19 12:35	Sampling Location:	SED-05
Vessel:	Carolyn Dow	Attempt #:	2
Weather Conditions:	Overcast 60°F calm	Sampling Personnel:	CRW MRM
Depth Sounding Method:	MM Ship Depth sounder	Subcontractor Personnel:	Research Support Services, Inc.
Gage Source (circle one):	NOAA PRT03 USGS 14211720	Captain:	Eric Parker
Gage Height, Datum, Time:	0.14 ft PRD Time: 11:35	Deckhand:	Andrew Muth
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North	Sampling Equipment:	Vibroc core Rosefeldt P3
Proposed Coordinates:		General River Location:	RM 6.75 W
Latitude:	45.576971	Core Tube Length:	15'
Longitude:	-122.750634	Target Drive Depth:	up to 15 feet bml, as available.

Sampling Summary			
Radius from Target:	13.4'	Actual Coordinates:	
Bottom Conditions:	sand	Latitude:	45.5770 0211
Mudline Elevation:	Water Depth = 7.2	Longitude:	-122.75060650
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	3.8 ^{MM} 3.9	Total Drive Length (ft):	4.8
Avg. % Recovery (= length recovered / total drive length):		81.2%	
Core Accepted (Y/N):		N	

Additional Comments:
Vibroc core encountered refusal.

If core sectioned in field for transport:

Section:	Length (ft):	Description at Cuts:
A-B =		
B-C =		
C-D =		
D-E =		
Catcher (0.3 ft):		

headspace:	
catcher:	

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Sampling Date:	10/7/19 13104	Sampling Location:	SED-05
		Attempt #:	3
Vessel:	Carolyn Dow	Sampling Personnel:	CRW MRM
Weather Conditions:	overcast, 60°F, calm	Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	lead line	Captain:	Eric Parker
Gage Source (circle one):	NOAA PRT03 USGS 14211720	Deckhand:	Andrew Muth
Gage Height, Datum, Time:	0.14 ft PRD Time: 11:35	Sampling Equipment:	Vibrocore-Rosenteller P3
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North		
Proposed Coordinates:		General River Location:	RM 7.75W
Latitude:	45.576971	Core Tube Length:	15'
Longitude:	-122.750634	Target Drive Depth:	up to 15 feet bml, as available.

Sampling Summary			
Radius from Target:	24.7'	Actual Coordinates:	
Bottom Conditions:	Sand	Latitude:	45.57702222
Mudline Elevation:	water depth = 10.5	Longitude:	-122.75057069
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	7.1	Total Drive Length (ft):	8.9
Avg. % Recovery (= length recovered / total drive length):	80.7%		
Core Accepted (Y/N):	Y		

Additional Comments:
vibrocore run into compacted sand until refusal

If core sectioned in field for transport: not sectioned for transport

headspace:	Section:	Length (ft):	Description at Cuts:
	A-B =		
	B-C =		
	C-D =		
	D-E =		
catcher:	Catcher (0.3 ft):		

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Sampling Date:	10/7/2019 10:04 AM	Sampling Location:	SED-06
		Attempt #:	1
Vessel:	Carolyn Dow	Sampling Personnel:	CRW MRM
Weather Conditions:	Calmy Sunny, 58°F	Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	Lead line 6.9'	Captain:	Eric Parker
Gage Source (circle one):	NOAA PRT03 USGS 14211720	Deckhand:	Andrew Muth
Gage Height, Datum, Time:	0.62 ft PRD Time: 6:55	Sampling Equipment:	Vibracore - Rosteler R3
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North		
Proposed Coordinates:		General River Location:	RM 6.55M
Latitude:	45.576771	Core Tube Length:	16'
Longitude:	-122.750215	Target Drive Depth:	up to 15 feet bml, as available.

Sampling Summary			
Radius from Target:	13'	Actual Coordinates:	
Bottom Conditions:	Sand	Latitude:	45.57677333
Mudline Elevation:	Water Depth = 6.9'	Longitude:	-122.75016265
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	9.0'	Total Drive Length (ft):	13.0'
Avg. % Recovery (= length recovered / total drive length): 69.2%			
Core Accepted (Y/N): Yes - Best of 3			

Additional Comments:
orig. location on Beach w/ riprap shifted offshore. Encountered hard pack Sand at Depth - Vibracore refusal at 13' Drive depth.

If core sectioned in field for transport:

Section:	Length (ft):	Description at Cuts:
A-B =		
B-C =		
C-D =	0 - 5.2	
D-E =	5.2 - 8.6	
Catcher (0.3 ft):	ESP	Dark grey, slight petro. odor, no slean

headspace:
catcher:

CW

Subsurface Sediment Field Sampling
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Sampling Date:	10/7/19 10:39 AM	Sampling Location:	SED-06
		Attempt #:	2
Vessel:	Carolyn Dow	Sampling Personnel:	CRW MRM
Weather Conditions:	Sunny, calm, 60°F	Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	Depth Sounding - 1 end line	Captain:	Eric Parker
Gage Source (circle one):	NOAA PR103 USGS 14211720	Deckhand:	Andrew Muth
Gage Height, Datum, Time:	-0.46 ft PRD Time: 9:35 AM	Sampling Equipment:	Vibrocore - Rostfeldt P3
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North		
Proposed Coordinates:		General River Location:	RM 7.75 W
Latitude:	45.576771	Core Tube Length:	15'
Longitude:	-122.750215	Target Drive Depth:	up to 15 feet bml, as available.

Sampling Summary			
Radius from Target:	19.9'	Actual Coordinates:	
Bottom Conditions:	Sand	Latitude:	45.57678915
Mudline Elevation:	Water Depth = 8.1	Longitude:	-122.75014160
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	7.3	Total Drive Length (ft):	12.1
Avg. % Recovery (= length recovered / total drive length):		60.3%	
Core Accepted (Y/N):	NO		

Additional Comments:
Moved about 5' off of attempt 1 location for SED-06. Vibrocore hit refusal in compacted sand.

If core sectioned in field for transport:

headspace:	Section:	Length (ft):	Description at Cuts:
	A-B =		
	B-C =		
	C-D =		
	D-E =		
catcher:	Catcher (0.3 ft):		Firm sand, some clay, slight petto. odor

Subsurface Sediment Field Sampling
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Portland, Oregon



Sampling Date:	10/7/19 11:21	Sampling Location:	SED-06
Vessel:	Carolyn Dow	Attempt #:	3
Weather Conditions:	gunny clouds, 60°F	Sampling Personnel:	CRW MRM
Depth Sounding Method:	Depth Sounder	Subcontractor Personnel:	Research Support Services, Inc.
Gage Source (circle one):	NOAA PR103 USGS 14211720	Captain:	Eric Parker
Gage Height, Datum, Time:	-0.4ft PRD Time: 9:55.4m	Deckhand:	Andrew Muth
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North	Sampling Equipment:	Vibrocure-Rostolder P3 6.75m
Proposed Coordinates:		General River Location:	RM 7.5 W
Latitude:	45.576771	Core Tube Length:	15'
Longitude:	-122.750215	Target Drive Depth:	up to 15 feet bml, as available.

Sampling Summary			
Radius from Target:	25.4	Actual Coordinates:	
Bottom Conditions:	Sand	Latitude:	45.57679850
Mudline Elevation:	Water Depth = 10.1'	Longitude:	122.75012386
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	7.3	Total Drive Length (ft):	11.2
Avg. % Recovery (= length recovered / total drive length):	65.1%		
Core Accepted (Y/N):	NO		

Additional Comments:
Vibrocure to just before refusal depth encountered in Attempts 1 & 2.

If core sectioned in field for transport:

Section:	Length (ft):	Description at Cuts:
A-B =		
B-C =		
C-D =		
D-E =		
Catcher (0.3 ft):		

headspace:

catcher:

Subsurface Sediment Field Sampling
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Sampling Date:	10/7/19 1600	Sampling Location:	SED-07
		Attempt #:	1
Vessel:	Carolyn Dow	Sampling Personnel:	CRW MRM
Weather Conditions:	partly cloudy, calm, 60°	Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	lead line	Captain:	Eric Parker
Gage Source (circle one):	NOAA PRT03 USGS 14211720	Deckhand:	Andrew Muth
Gage Height, Datum, Time:	2.62 ft PRD Time: 2:35 PM	Sampling Equipment:	Vibracore Rosfelder P3
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North		
Proposed Coordinates:		General River Location:	RM 6.8
Latitude:	45.576374	Core Tube Length:	10 ft
Longitude:	-122.749314	Target Drive Depth:	up to 10 feet bml, as available.

Sampling Summary			
Radius from Target:	0.8'	Actual Coordinates:	
Bottom Conditions:	gray fine sand	Latitude:	45.57637168
Mudline Elevation:	16.1' = water depth	Longitude:	-122.74931401
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	6.4	Total Drive Length (ft):	8.6
Avg. % Recovery (= length recovered / total drive length):	74.4% 74.4%	74.4% 74.4%	
Core Accepted (Y/N):	Y, best of 3		

Additional Comments:

If core sectioned in field for transport:

headspace:	Section:	Length (ft):	Description at Cuts:
	A-B =		
	B-C =		
	C-D =	0-3.2	
	D-E =	3.2-6.35	
catcher:	Catcher (0.3 ft):	0.005	

Low

Subsurface Sediment Field Sampling
Form Rivermile 6.55 to 6.9
Siltronic Corporation
Portland, Oregon



Sampling Date:	10/7/19 ^w 10:20	Sampling Location:	SED-07
		Attempt #:	2
Vessel:	Carolyn Dow	Sampling Personnel:	CRW MRM
Weather Conditions:	partly cloudy calm w/d	Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	lead line	Captain:	Eric Parker
Gage Source (circle one):	NOAA PRT08 USGS 14211720	Deckhand:	Andrew Math
Gage Height, Datum, Time:	2.62ft PRD Time: 1435	Sampling Equipment:	Vibracore Rostfelder P3
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North		
Proposed Coordinates:		General River Location:	RM 6.8
Latitude:	45.576374	Core Tube Length:	10 ft
Longitude:	-122.749314	Target Drive Depth:	up to 15 feet bml, as available.

Sampling Summary			
Radius from Target:	7.1'	Actual Coordinates:	
Bottom Conditions:	gray fine sand	Latitude:	45.57639202
Mudline Elevation:	15.8' water level	Longitude:	122.74932456
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	4.9	Total Drive Length (ft):	9.5
Avg. % Recovery (= length recovered / total drive length):		51.6%	
Core Accepted (Y/N):		N	

Additional Comments:

If core sectioned in field for transport:		
Section:	Length (ft):	Description at Cuts:
A-B =		
B-C =		
C-D =		
D-E =		
Catcher (0.3 ft):		

headspace:	
catcher:	

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Sampling Date:	10/7/19 1635	Sampling Location:	SED-07
		Attempt #:	3
Vessel:	Carolyn Dow	Sampling Personnel:	CRW MRM
Weather Conditions:	partly cloudy, calm w/	Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	lead line	Captain:	Eric Parker
Gage Source (circle one):	NOAA PRT03 USGS 14211720	Deckhand:	Andrew Muth
Gage Height, Datum, Time:	2.62 ft PRD Time: 1435	Sampling Equipment:	Vibracore Rostfeller P3
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North		
Proposed Coordinates:		General River Location:	Rm 6.8
Latitude:	45.576374	Core Tube Length:	10 ft
Longitude:	-122.749314	Target Drive Depth:	up to 10 feet bml, as available.

Sampling Summary			
Radius from Target:	11.7'	Actual Coordinates:	
Bottom Conditions:	gray fine sand	Latitude:	45.57640412
Mudline Elevation:	14.6' = water level	Longitude:	122.74933023
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	10.1	Total Drive Length (ft):	9.5
Avg. % Recovery (= length recovered / total drive length): 64.2%			
Core Accepted (Y/N): N			

Additional Comments:

If core sectioned in field for transport:

headspace:		Section:	Length (ft):	Description at Cuts:
		A-B =		
		B-C =		
		C-D =		
		D-E =		
catcher:		Catcher (0.3 ft):		

Subsurface Sediment Field Sampling
Form Rivermile 6.55 to 6.9
Siltronic Corporation
Portland, Oregon



Sampling Date:	10/8/19 1220	Sampling Location:	SED-08
		Attempt #:	1
Vessel:	Carolyn Dow	Sampling Personnel:	CRW CS
Weather Conditions:	partly cloudy, calm 50s	Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	lead line	Captain:	Eric Parker
Gage Source (circle one):	NOAA PRT03 USGS 14211720	Deckhand:	Andrew Muth
Gage Height, Datum, Time:	-0.1 ft PRD Time: 1035	Sampling Equipment:	Vibracore Rostfelder P3
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North		
Proposed Coordinates:		General River Location:	RM 6.87W
Latitude:	45.575696	Core Tube Length:	10 ft
Longitude:	-122.749148	Target Drive Depth:	up to 16 feet bml, as available.

Sampling Summary			
Radius from Target:	143'	Actual Coordinates:	
Bottom Conditions:	gray fine sand	Latitude:	45.57606990
Mudline Elevation:	13.5	Longitude:	122.74898119
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	5.3	Total Drive Length (ft):	9.5
Avg. % Recovery (= length recovered / total drive length):		55.8%	
Core Accepted (Y/N):	N		

Additional Comments:
Due to water level, location moved approximately 143 N of target, adjacent to outfall 22i discharge point. No odor or staining on shoe.

If core sectioned in field for transport:

headspace:	Section:	Length (ft):	Description at Cuts:
	A-B =		
	B-C =		
	C-D =		
	D-E =		
catcher:	Catcher (0.3 ft):		

-8 AM on site, set up equip, drop off cores

Subsurface Sediment Field Sampling
Form Rivermile 6.55 to 6.9
Siltronic Corporation
Portland, Oregon



Sampling Date:	10/8/19 1255	Sampling Location:	SED-08
Vessel:	Carolyn Dow	Attempt #:	2
Weather Conditions:	cloudy, 50s, breezy	Sampling Personnel:	CRW CS
Depth Sounding Method:	Lead Line	Subcontractor Personnel:	Research Support Services, Inc.
Gage Source (circle one):	NOAA PRT03 USGS 14211720	Captain:	Eric Parker
Gage Height, Datum, Time:	-0.15ft PRD Time: 1135	Deckhand:	Andrew Meeth
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North	Sampling Equipment:	Vibracore
Proposed Coordinates:		General River Location:	RM 6.87W
Latitude:	45.575696	Core Tube Length:	10-A
Longitude:	-122.749148	Target Drive Depth:	up to 10 feet bml, as available.

Sampling Summary			
Radius from Target:	155'	Actual Coordinates:	
Bottom Conditions:	Gray f-m sand	Latitude:	45.57609422
Mudline Elevation:	17.7	Longitude:	122.74893432
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	2.9	Total Drive Length (ft):	9.5
Avg. % Recovery (= length recovered / total drive length):	30.5%		
Core Accepted (Y/N):	N		

Additional Comments:

Due to low water level, location moved north approx. 155' near discharge point of OFZC
 No odor or sheen.

If core sectioned in field for transport:

Section:	Length (ft):	Description at Cuts:
A-B =		
B-C =		
C-D =		
D-E =		
Catcher (0.3 ft):		

headspace:

catcher:

Subsurface Sediment Field Sampling
Form Rivermile 6.55 to 6.9
Siltronic Corporation
Portland, Oregon



Sampling Date:	10/8/19 1320		Sampling Location:	SED-08
			Attempt #:	3
Vessel:	Carolyn Dow		Sampling Personnel:	CRW CS
Weather Conditions:	cloudy, 50,		Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	lead line		Captain:	Eric Parker
Gage Source (circle one):	NOAA PRT03	USGS 14211720	Deckhand:	Arthur Muth
Gage Height, Datum, Time:	-0.15 ft PRD	Time: 1135	Sampling Equipment:	Vibra core
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North			
Proposed Coordinates:			General River Location:	RM 6.87W
Latitude:	45.575696		Core Tube Length:	10 ft 10-ft
Longitude:	-122.749148		Target Drive Depth:	up to 15 feet bml, as available.

Sampling Summary			
Radius from Target:	780 ft 162 ft	Actual Coordinates:	
Bottom Conditions:	Gray f-m sand	Latitude:	45.57609380
Mudline Elevation:	19.9 - water level	Longitude:	122.74886741
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	3.7	Total Drive Length (ft):	5
Avg. % Recovery (= length recovered / total drive length):	74% best of 3		
Core Accepted (Y/N):	Y, best of 3		

Additional Comments:
Due to loose sand, reduced drive length to ensure recovery

If core sectioned in field for transport: *not sectioned*

headspace:	Section:	Length (ft):	Description at Cuts:
	A-B =		
	B-C =		
	C-D =	0-3.25	
	D-E =	0-3.25	
catcher:	Catcher (0.3 ft):	0.3 ft	

Subsurface Sediment Field Sampling
Form Rivermile 6.55 to 6.9
Siltronic Corporation
Portland, Oregon



Sampling Date:	10/8/19 1400	Sampling Location:	SED-09
		Attempt #:	1
Vessel:	Carolyn Dow	Sampling Personnel:	CRW CS
Weather Conditions:	cloudy, breezy, 50s	Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	lead line	Captain:	Eric Parker
Gage Source (circle one):	NOAA PRT03 USGS 14211720	Deckhand:	Andrew Muth
Gage Height, Datum, Time:	0.62 ft PRD Time: 1235	Sampling Equipment:	Vibracore
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North		
Proposed Coordinates:		General River Location:	RM-6.9W
Latitude:	45.575224	Core Tube Length:	10-ft
Longitude:	-122.748819	Target Drive Depth:	up to 15 feet bml, as available.

Sampling Summary			
Radius from Target:	161'	Actual Coordinates:	
Bottom Conditions:	silty sand gray	Latitude:	45.57551593
Mudline Elevation:	0.9 water level	Longitude:	122.74834684
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	7.0	Total Drive Length (ft):	9.7
Avg. % Recovery (= length recovered / total drive length):		72%	
Core Accepted (Y/N):		Y, best of 3	

Additional Comments:
Due to low water level, location adjusted, north approximately 161 feet in order to be in water.

If core sectioned in field for transport:

headspace:	Section:	Length (ft):	Description at Cuts:
	A-B =		
	B-C =		
	C-D =	0-3.5	
	D-E =	3.5-6.85	
catcher:	Catcher (0.3 ft):	0-0.3	

Subsurface Sediment Field Sampling
Form Rivermile 6.55 to 6.9
Siltronic Corporation
Portland, Oregon



Sampling Date:	10/8/19 14.35	Sampling Location:	SED-09
		Attempt #:	2
Vessel:	Carolyn Dow	Sampling Personnel:	ORW CS
Weather Conditions:	windy, cloudy, 50s	Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	port line	Captain:	Eric Parker
Gage Source (circle one):	NOAA PRT03 USGS 14211720	Deckhand:	Andrew Muth
Gage Height, Datum, Time:	1.98 ft PRD Time: 1335	Sampling Equipment:	Vibracore
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North		
Proposed Coordinates:		General River Location:	RM-6-9W
Latitude:	45.575224	Core Tube Length:	10-ft
Longitude:	-122.748819	Target Drive Depth:	up to 15 feet bml, as available.

Sampling Summary			
Radius from Target:	169.8'	Actual Coordinates:	
Bottom Conditions:	gray fine sand	Latitude:	45.57554738
Mudline Elevation:	10.2 - water level	Longitude:	122.74834194
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	6.8	Total Drive Length (ft):	9.5
Avg. % Recovery (= length recovered / total drive length):		71.6%	
Core Accepted (Y/N):	N		

Additional Comments:
Due to lower water, moved core ~ 169.8' from original location.

If core sectioned in field for transport:				
headspace:		Section:	Length (ft):	Description at Cuts:
		A-B =		
		B-C =		
		C-D =		
		D-E =		
catcher:		Catcher (0.3 ft):		

Subsurface Sediment Field Sampling
Form Rivermile 6.55 to 6.9
Siltronic Corporation
Portland, Oregon



Sampling Date:	10/8/19 1505	Sampling Location:	SED-09
		Attempt #:	3
Vessel:	Carolyn Dow	Sampling Personnel:	CPW CS
Weather Conditions:	50s breezy, partly cloudy	Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	lead line	Captain:	Eric Parker
Gage Source (circle one):	NOAA PRT03 USGS 14211720	Deckhand:	Andrew Muth
Gage Height, Datum, Time:	1.98 ft PRD Time: 1335	Sampling Equipment:	Vibracore
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North		
Proposed Coordinates:		General River Location:	RM 10.9W
Latitude:	45.575224	Core Tube Length:	7.5
Longitude:	-122.748819	Target Drive Depth:	up to 15 feet bml, as available.

Sampling Summary			
Radius from Target:	191'	Actual Coordinates:	
Bottom Conditions:	grey fine sand	Latitude:	45.57561791
Mudline Elevation:	17.9 water level	Longitude:	122.74832521
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	4.2'	Total Drive Length (ft):	7.5
Avg. % Recovery (= length recovered / total drive length):	56%		
Core Accepted (Y/N):	N		

Additional Comments:
Due to low water, moved location north. Only drove 7.5' due to previous low recovery

If core sectioned in field for transport:

headspace:	
catcher:	

Section:	Length (ft):	Description at Cuts:
A-B =		/
B-C =		
C-D =		
D-E =		
Catcher (0.3 ft):		

Subsurface Sediment Field Sampling
Form Rivermile 6.55 to 6.9
Siltronic Corporation
Portland, Oregon



Sampling Date:	10/8/19 1545	Sampling Location:	SED-10
		Attempt #:	1
Vessel:	Carolyn Dow	Sampling Personnel:	CRW CS
Weather Conditions:	partly sunny, 50s	Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	Lead Line	Captain:	Eric Parker
Gage Source (circle one):	NOAA.PRT03 USGS 14211720	Deckhand:	Andrew Muth
Gage Height, Datum, Time:	2.94 ft PRD Time: 1435	Sampling Equipment:	Vibracore
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North		
Proposed Coordinates:		General River Location:	RM 6.88W
Latitude:	45.575604	Core Tube Length:	10-ft
Longitude:	-122.748782	Target Drive Depth:	up to 15 feet bml, as available.

Sampling Summary			
Radius from Target:	124'	Actual Coordinates:	
Bottom Conditions:	gray, ^{fine} sand & silt	Latitude:	45.57587773
Mudline Elevation:	26.3 - water level	Longitude:	122.74849510
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	3.8	Total Drive Length (ft):	9.5
Avg. % Recovery (= length recovered / total drive length): 40%			
Core Accepted (Y/N): N			

Additional Comments:
Moved north due to low water and railroad buttress position. Large fragment of woody debris in shoe

If core sectioned in field for transport:

headspace:		Section:	Length (ft):	Description at Cuts:
		A-B =		
		B-C =		
		C-D =		
		D-E =		
catcher:		Catcher (0.3 ft):		

Subsurface Sediment Field Sampling
Form Rivermile 6.55 to 6.9
Siltronic Corporation
Portland, Oregon



Sampling Date:	10/8/19 1610	Sampling Location:	SED-10
		Attempt #:	2
Vessel:	Carolyn Dow	Sampling Personnel:	CRW, CS
Weather Conditions:	partly sunny, 50s	Subcontractor Personnel:	Research Support Services, Inc.
Depth Sounding Method:	lead line	Captain:	Eric Parker
Gage Source (circle one):	NOAA PRT03 USGS 14211720	Deckhand:	Andrew Muth
Gage Height, Datum, Time:	2.94 ft PRD Time: 1435	Sampling Equipment:	Vibracore
Horizontal Coordinate Datum:	NAD 1983 Oregon State Plane North		
Proposed Coordinates:		General River Location:	RM 6-88W
Latitude:	45.575604	Core Tube Length:	10-ft
Longitude:	-122.748782	Target Drive Depth:	up to 10 feet bml, as available.

Sampling Summary			
Radius from Target:	126'	Actual Coordinates:	
Bottom Conditions:	tan hard pack fine sand of silt	Latitude:	45.57586040
Mudline Elevation:	29.6 - water level	Longitude:	122.74845149
Measurement (to nearest 0.1 foot):			
Length Recovered (ft):	7.6	Total Drive Length (ft):	9.5
Avg. % Recovery (= length recovered / total drive length):		80%	
Core Accepted (Y/N):	Y		

Additional Comments:
moved north due to low water and railroad buttress position.

If core sectioned in field for transport:

headspace:	Section:	Length (ft):	Description at Cuts:
	A-B =		
	B-C =		
	C-D =		
	D-E =	0-7.2	
catcher:	Catcher (0.3 ft):	0-7.2	

low