Appendix A. Field Completion Report

NewFields
Perspective. Vision. Solutions.

Sediment Management and Marine Sciences

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MEMORANDUM

DATE: July 15, 2019

TO: John Evered – Washington State Department of Ecology

FROM: John Nakayama, Stephani Shusta, Leon Delwiche – NewFields

COPY: Tom Dubé – Leidos

SUBJECT: Field Completion Report – Blakely Harbor Park Sediment Investigation

1.0 Introduction

This field completion report provides a summary of field sampling operations conducted for the 2019 Blakely Harbor Park Sediment Investigation on July 1 and 2, 2019. Field sampling methods were consistent with the Sampling and Analysis Plan and Quality Assurance Project Plan (SAP/QAPP; Leidos and NewFields 2019) except as noted in this memorandum. The following section provides a brief narrative of the field sampling operations. Attachments to the memorandum include the following:

1. Map showing actual sampling locations
2. Summary table of geographic coordinates
3. Photographs of the sediment surface grabs and intertidal samples
4. Field logbook
5. Grab logbook
6. Chain-of-custody forms
7. Sample container logbook

2.0 Summary of Field Operations

July 1, 2019

On the morning of July 1, John Nakayama and Stephani Shusta of NewFields traveled to Blakely Harbor Park on Bainbridge Island to conduct sediment sampling of intertidal locations at low tide. Sampling was attempted in the log pond by walking out to the proposed locations at low tide. Due to unconsolidated sediments, only one location in the log pond (BH2-06) could be accessed by foot and sampled. Two locations near the former saw mill site (BH2-08 and BH2-

09) were also sampled on foot before the tide came in.

Upon arrival at the target coordinates, the following tasks were completed to collect a sediment sample at each intertidal site:

- A geographic position was recorded using a hand-held WAAS-enabled GPS unit.
- A photograph was taken of the surface sediment.
- Visual descriptions of the sediment were recorded in the grab logbook, including the presence of wood debris and organisms and any noticeable odor.
- A 4-oz jar was filled directly with representative surface sediments (top 10 cm) and preserved with zinc acetate for total sulfide analysis.
- A pre-cleaned stainless steel spoon was used to collect the top 10 cm of sediment and placed in a pre-cleaned stainless steel bowl.
- The sediment was homogenized to a consistent color and texture, placed in appropriate sample jars, labeled, and stored in coolers on ice.

At approximately 12:30 pm, John Nakayama and Stephani Shusta traveled to the Eagle Harbor public boat launch to load sediment processing equipment and sample jars aboard the research vessel (R/V) *Carolyn Dow* to conduct grab sampling operations. Eric Parker captained the R/V *Carolyn Dow* and was assisted by the vessel deckhand, Andrew Muth, in conducting the deployment and recovery operations of the powered grab sampler. Surface sediment samples were successfully collected at 20 locations in Blakely Harbor, including the remaining log pond locations that were accessible by the sampling vessel at high tide. An equipment rinsate was also collected.

Upon arrival at the target coordinates, the following tasks were completed to collect a sediment sample using the powered grab sampler:

- The powered grab sampler was cleaned with Alconox soap, rinsed with site water, rinsed with distilled water, and then deployed.
- When the grab sampler reached the seafloor, a geographic position was recorded using the vessel's DGPS navigation system.
- The powered grab sampler was retrieved. If an acceptable grab was obtained, the overlying water was removed with a siphon.
- A photograph of the grab sample was taken.
- Visual descriptions of the sediment were recorded in the grab logbook, including the presence of wood debris and organisms and any noticeable odor.
- A 4-oz jar was filled directly with representative surface sediments (top 10 cm) and preserved with zinc acetate for total sulfide analysis.
- A pre-cleaned stainless steel spoon was used to collect the top 10 cm of sediment and placed in a pre-cleaned stainless steel bowl.
- The sediment was homogenized to a consistent color and texture, placed in appropriate sample jars, labeled, and stored in coolers on ice.

Three grab sample attempts were made at location BH2-12, but a successful grab sample could

not be collected due to the presence of compact wood debris on the sediment surface (boards or planks). It was decided that sampling would be attempted by foot at low tide on July 2.

A communication cable crossing sign (U.S. West) was noted on the northern shore near the former post office building. This marker was not observed during the initial site visit. Ecology and Leidos were notified, and a utility inquiry was initiated by Leidos to determine the nature and location of the cable.

All samples were stored on ice in coolers and kept under chain-of-custody.

July 2, 2019

On the morning of July 2, John Nakayama and Stephani Shusta of NewFields traveled to Blakely Harbor Park on Bainbridge Island to complete sediment sampling of the one remaining intertidal location at low tide. Sampling of BH2-12 was successfully completed. A utility locator specialist met with NewFields at Blakely Harbor Park to provide information regarding the communication cable. The cable route was reported to run north-south across the harbor, was abandoned by the utility, and likely buried under sediment. With concurrence from Ecology, any sampling locations in close proximity to the cable route were moved laterally to avoid potential fouling of the cable.

At approximately 11:00 am, John Nakayama and Stephani Shusta traveled to the Eagle Harbor public boat launch to meet the R/V *Carolyn Dow* and continue grab sampling operations. Surface sediment samples were successfully collected at the 16 remaining locations in Blakely Harbor. Location BH2-25 was moved approximately 30 feet northwest of the target coordinates to avoid potential fouling of the cable crossing the harbor. An equipment rinsate and a rinsate blank were collected.

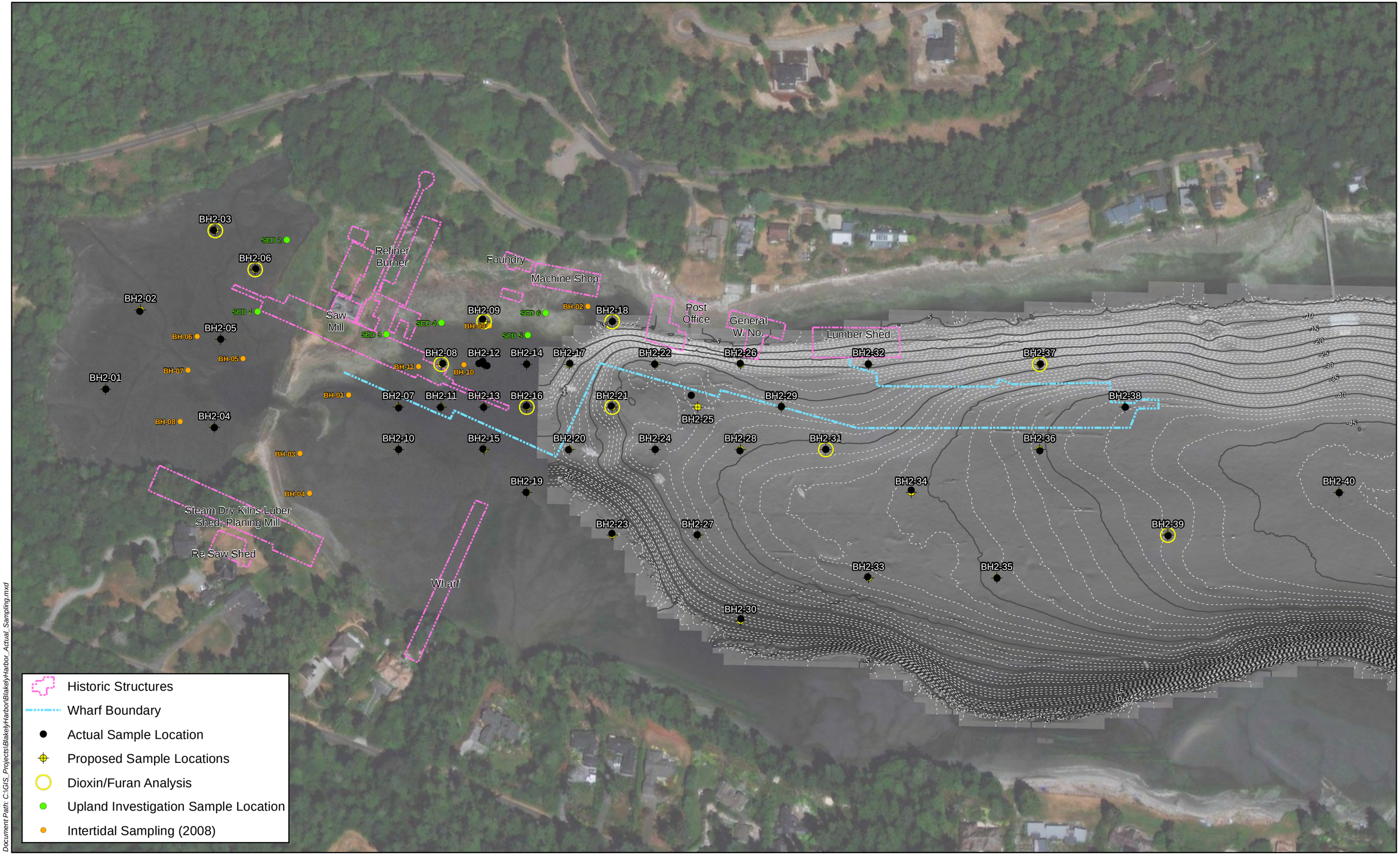
All samples were stored on ice in coolers and kept under chain-of-custody until delivery to the analytical laboratory, Eurofins TestAmerica. To meet holding times for total sulfide analyses, a subset of sample jars collected on July 1 were shipped overnight by FedEx to Eurofins TestAmerica in Denver, CO, on July 2, with arrival to the lab on July 3. All other samples were hand-delivered by NewFields to Eurofins TestAmerica in Fife, WA, on the morning of July 3.

3.0 References

Leidos and NewFields. 2019. Blakely Harbor Park Sediment Investigation. Final Sampling and Analysis Plan and Quality Assurance Project Plan. June 25, 2019. Submitted to Washington State Department of Ecology, Toxic Cleanup Program, Lacey, WA. Submitted by Leidos, Bothell, WA, and NewFields, Edmonds, WA.

Attachment 1

Map Showing Actual Sampling Locations



Document Path: C:\GIS_Projects\BlakelyHarbor\BlakelyHarbor_Actual_Sampling.mxd

N

Notes:
Projection: Lambert Conformal Conic (WA State Plane North);
Datum: NAD 83
Vertical: MLLW, contours in feet

0 200 400 800 Feet

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Bathymetry provided by NOAA

Attachment 1. Blakely Harbor Actual Sediment Sample Locations

Attachment 2

Summary Table of Geographic Coordinates

Attachment 2. Blakely Harbor Park Sediment Investigation Actual Sampling Coordinates

Station ID	Date	Time	Longitude (NAD83)	Latitude (NAD83)	Acceptable Sample
BH2-01	7/1/2019	4:27:00 PM	47.596079	-122.518107	Yes
BH2-02	7/1/2019	4:09:00 PM	47.596582	-122.517801	Yes
BH2-03	7/1/2019	3:56:00 PM	47.597113	-122.517116	Yes
BH2-04	7/1/2019	4:53:00 PM	47.595847	-122.517071	Yes
BH2-05	7/1/2019	4:41:00 PM	47.596414	-122.517029	Yes
BH2-06	7/1/2019	8:50:00 AM	47.596870	-122.516710	Yes
BH2-07	7/1/2019	3:40:00 PM	47.596000	-122.515327	Yes
BH2-08	7/1/2019	11:03:00 AM	47.596290	-122.514920	Yes
BH2-09	7/1/2019	10:39:00 AM	47.596580	-122.514550	Yes
BH2-10	7/1/2019	5:11:00 PM	47.595733	-122.515318	Yes
BH2-11	7/1/2019	5:24:00 PM	47.596010	-122.514930	Yes
BH2-12	7/1/2019	3:11:00 PM	47.596293	-122.514527	No
BH2-12	7/1/2019	3:19:00 PM	47.596283	-122.514498	No
BH2-12	7/1/2019	3:29:00 PM	47.596296	-122.514576	No
BH2-12	7/2/2019	10:22:00 AM	47.596310	-122.514540	Yes
BH2-13	7/1/2019	5:41:00 PM	47.596013	-122.514522	Yes
BH2-14	7/1/2019	2:57:00 PM	47.596297	-122.514122	Yes
BH2-15	7/1/2019	5:54:00 PM	47.595748	-122.514519	Yes
BH2-16	7/2/2019	2:43:00 PM	47.596028	-122.514115	Yes
BH2-17	7/1/2019	2:44:00 PM	47.596308	-122.513714	Yes
BH2-18	7/1/2019	2:27:00 PM	47.596582	-122.513319	Yes
BH2-19	7/1/2019	2:04:00 PM	47.595474	-122.514102	Yes
BH2-20	7/1/2019	1:44:00 PM	47.595755	-122.513709	Yes
BH2-21	7/1/2019	2:02:00 PM	47.596041	-122.513310	Yes
BH2-22	7/1/2019	2:13:00 PM	47.596316	-122.512909	Yes
BH2-23	7/1/2019	1:08:00 PM	47.595223	-122.513279	Yes
BH2-24	7/2/2019	2:25:00 PM	47.595769	-122.512886	Yes
BH2-25	7/2/2019	2:11:00 PM	47.596118	-122.512555	Yes
BH2-26	7/2/2019	1:56:00 PM	47.596331	-122.512098	Yes
BH2-27	7/1/2019	12:53:00 PM	47.595226	-122.512471	Yes
BH2-28	7/1/2019	12:36:00 PM	47.595773	-122.512083	Yes
BH2-29	7/2/2019	1:41:00 PM	47.596063	-122.511701	Yes
BH2-30	7/2/2019	1:29:00 PM	47.594694	-122.512039	Yes
BH2-31	7/2/2019	1:15:00 PM	47.595792	-122.511271	Yes
BH2-32	7/2/2019	12:57:00 PM	47.596348	-122.510884	Yes
BH2-33	7/2/2019	12:41:00 PM	47.594982	-122.510847	Yes
BH2-34	7/2/2019	12:22:00 PM	47.595544	-122.510451	Yes
BH2-35	7/2/2019	12:08:00 PM	47.594992	-122.509620	Yes
BH2-36	7/2/2019	11:54:00 AM	47.595816	-122.509241	Yes
BH2-37	7/2/2019	11:42:00 AM	47.596369	-122.509253	Yes
BH2-38	7/2/2019	11:30:00 AM	47.596105	-122.508437	Yes
BH2-39	7/2/2019	11:17:00 AM	47.595287	-122.508007	Yes
BH2-40	7/2/2019	11:05:00 AM	47.595586	-122.506395	Yes

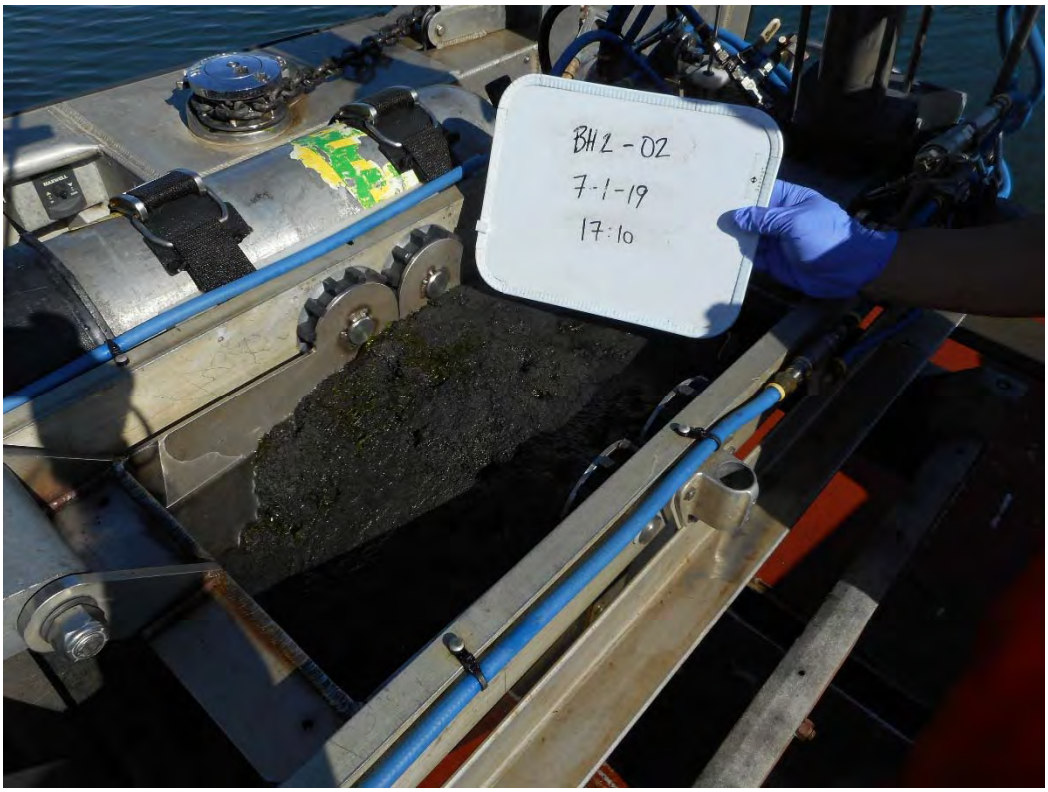
Notes

NAD83: North American Datum 1983

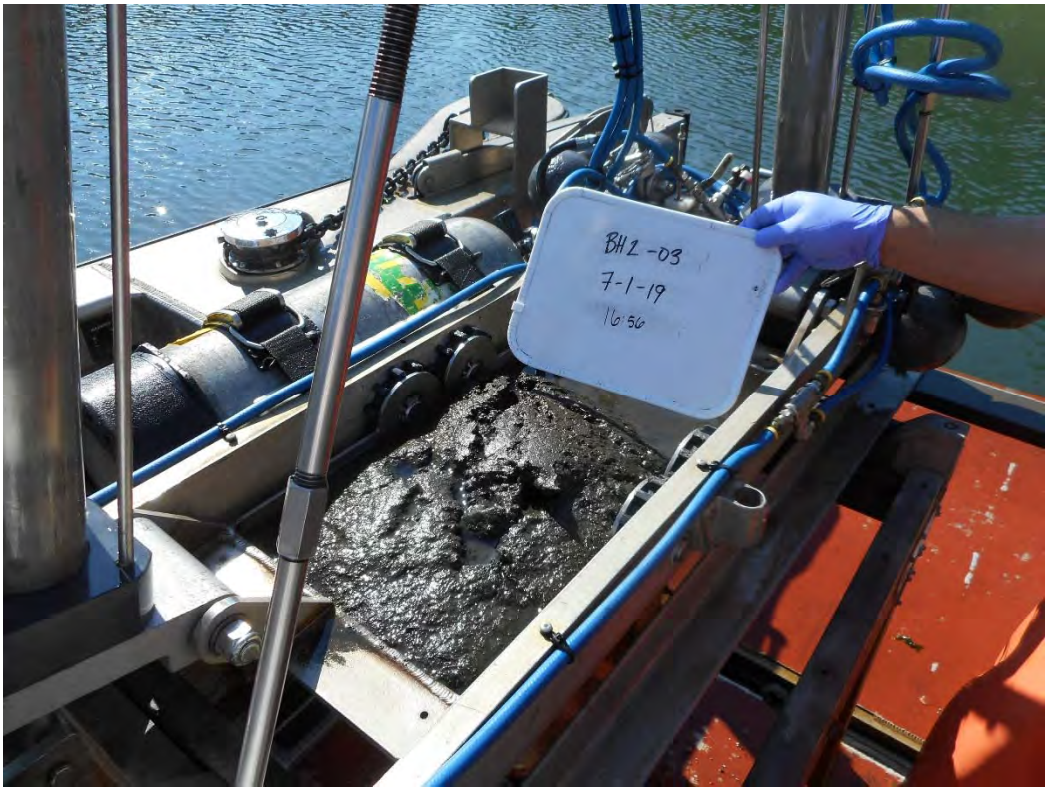
Attachment 3

Photographs of Sediment Surface Grabs and Intertidal Samples

Station BH2-01

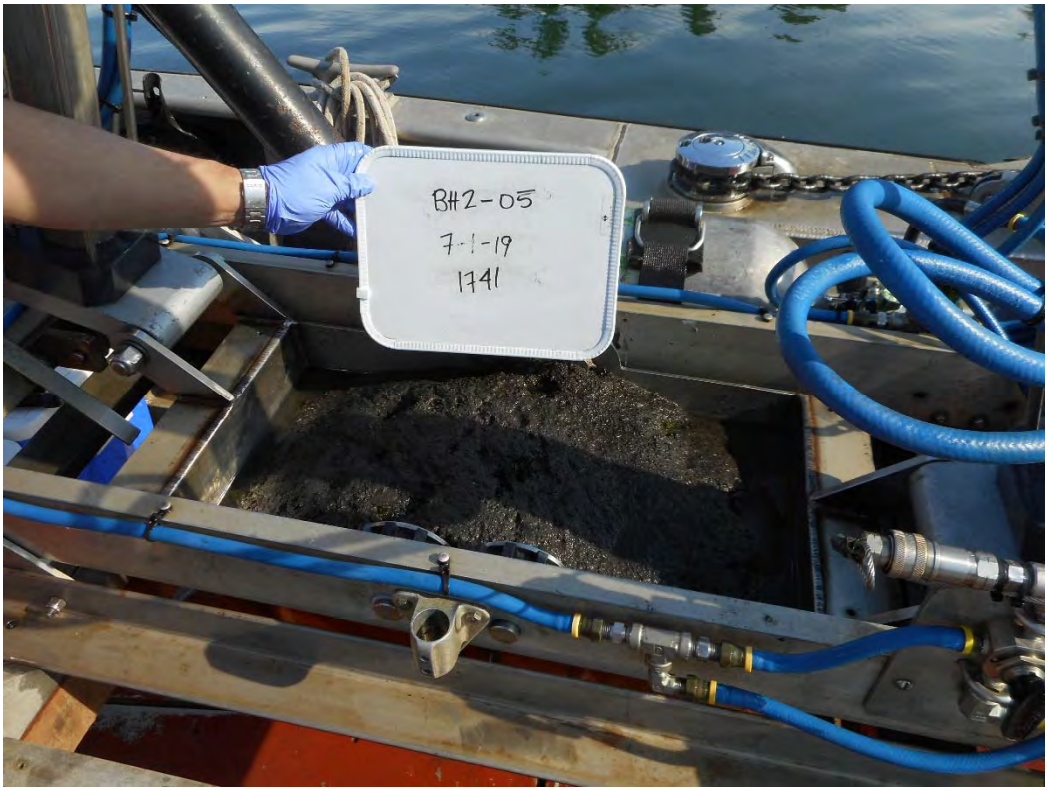


Station BH2-02



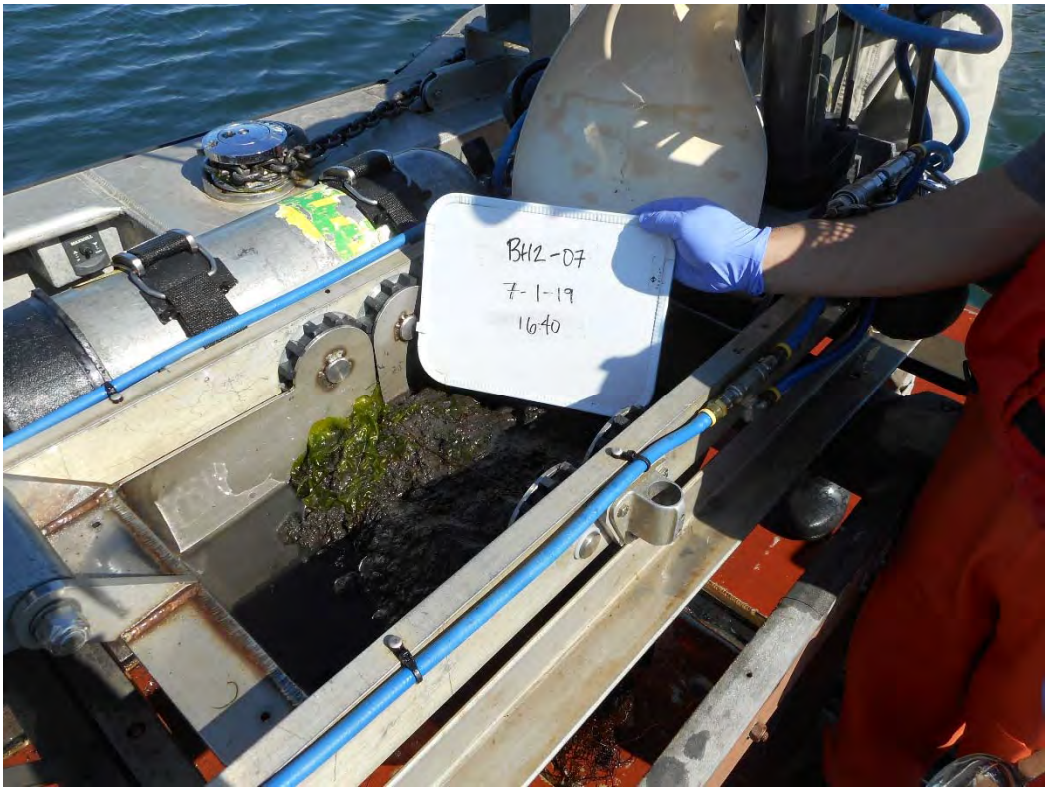
Station BH2-03

Station BH2-04



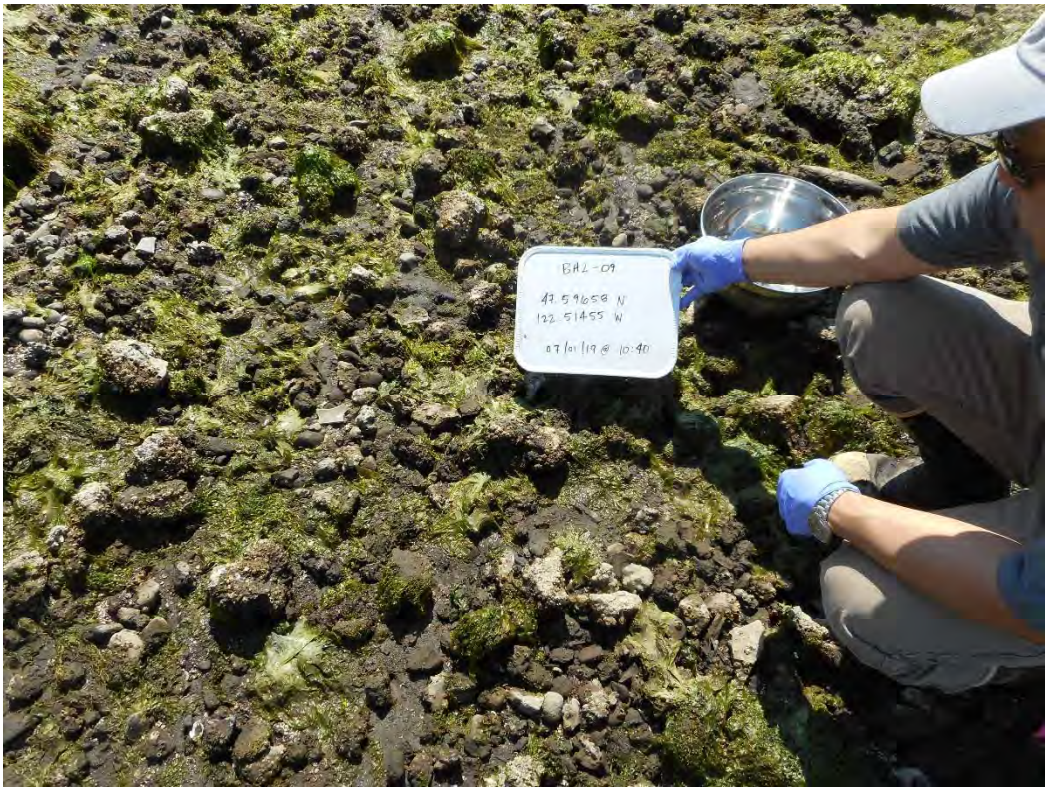
Station BH2-05

Station BH2-06



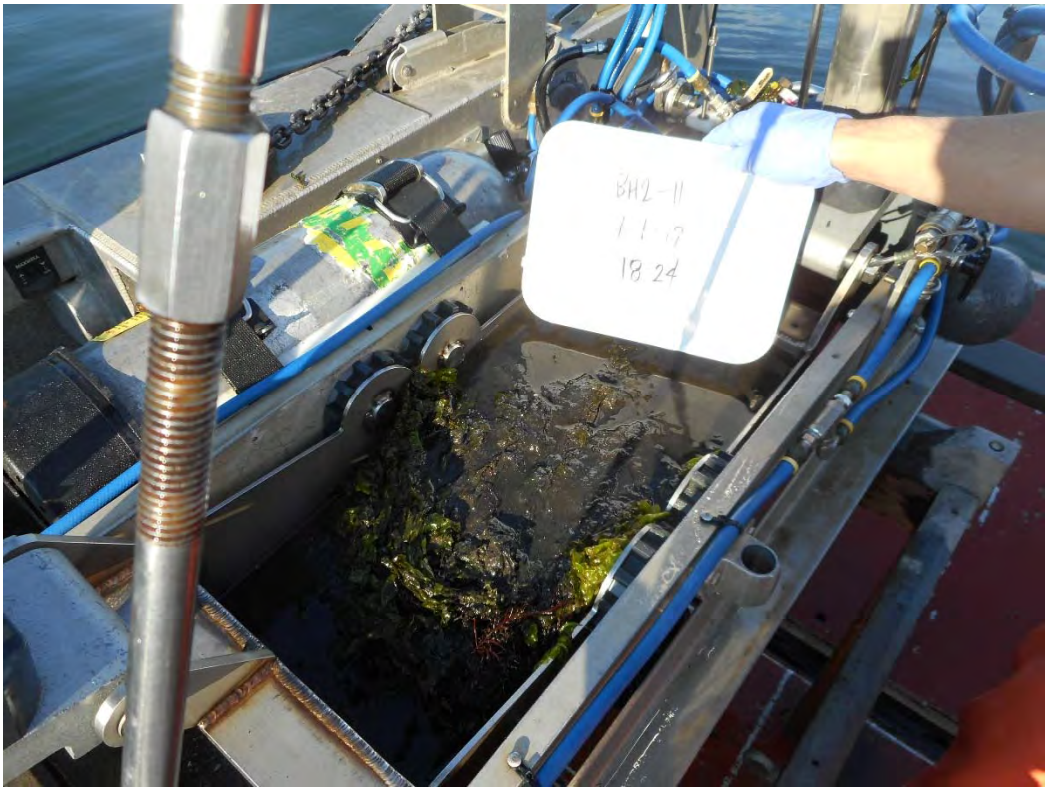
Station BH2-07

Station BH2-08



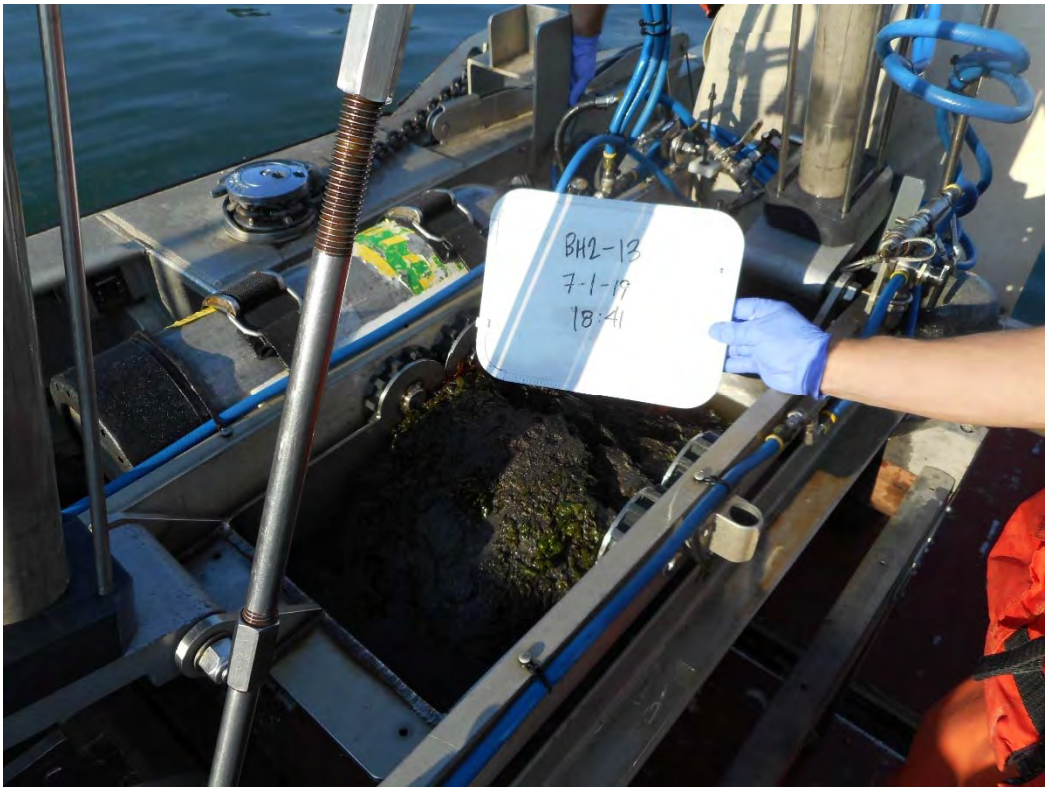
Station BH2-09

Station BH2-10



Station BH2-11

Station BH2-12

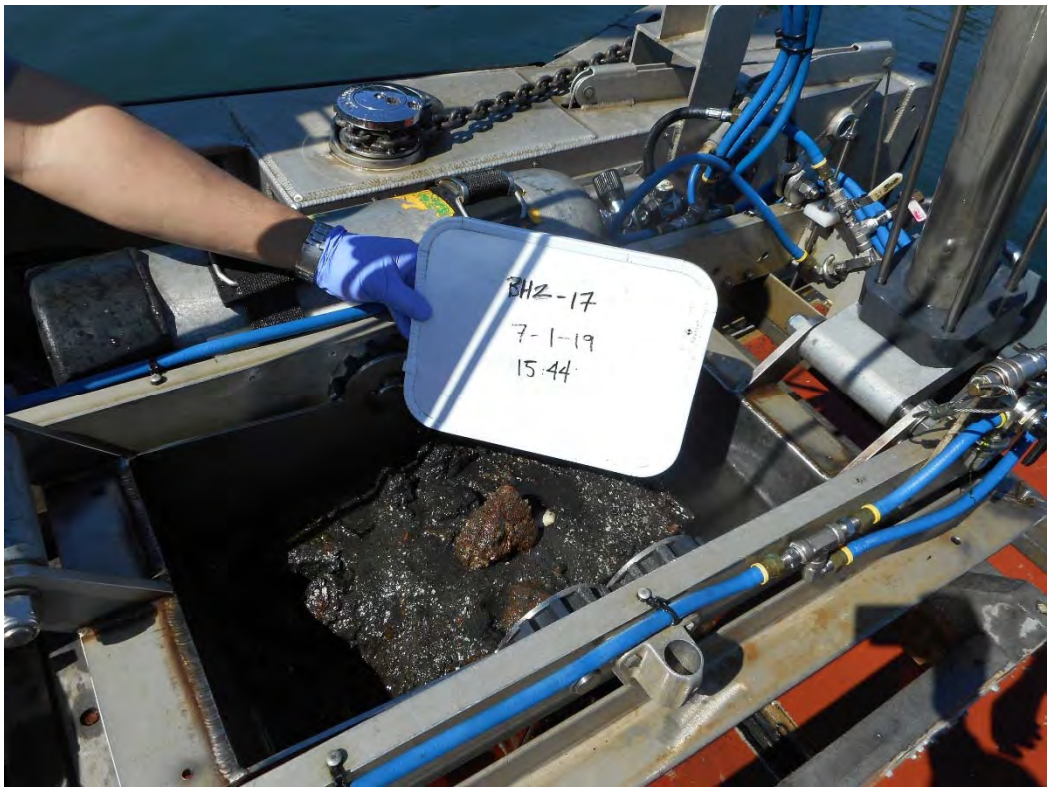


Station BH2-13

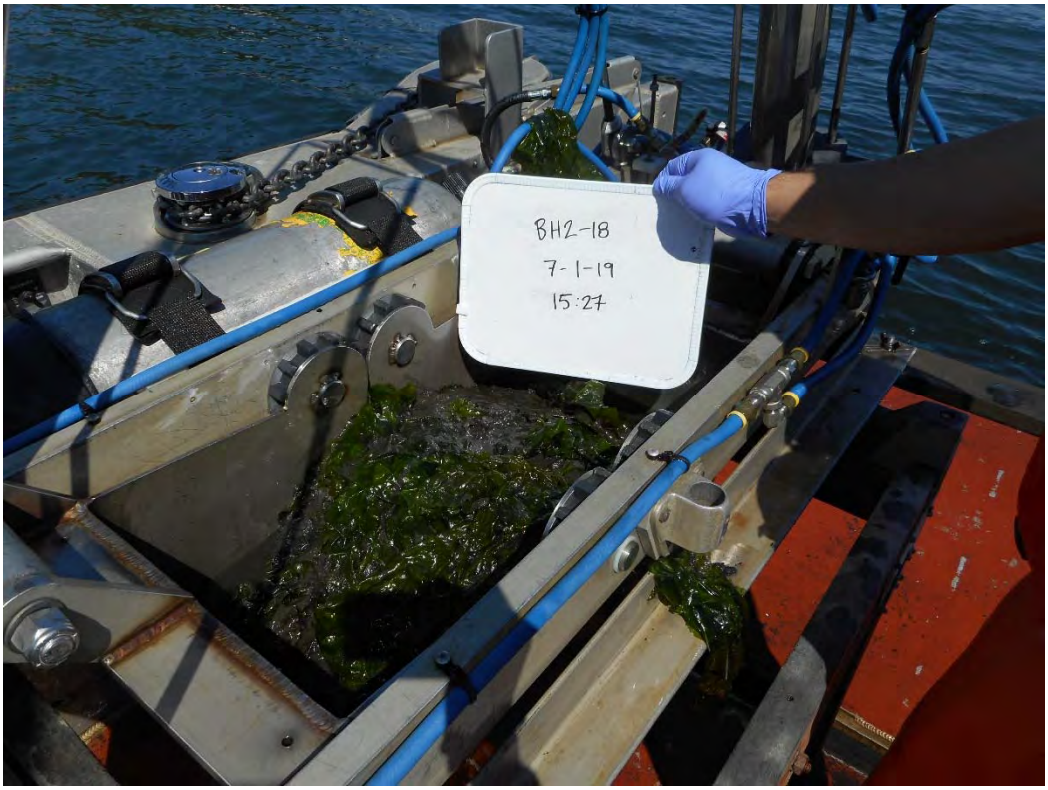
Station BH2-14

Station BH2-15

Station BH2-16

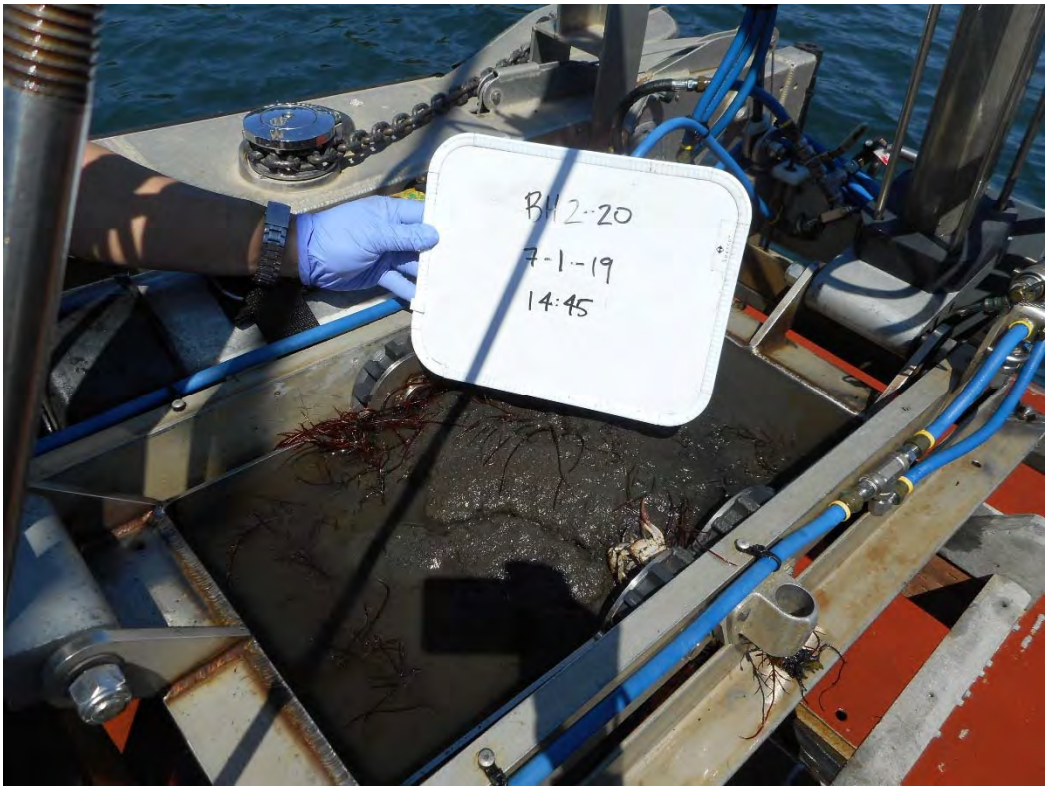


Station BH2-17

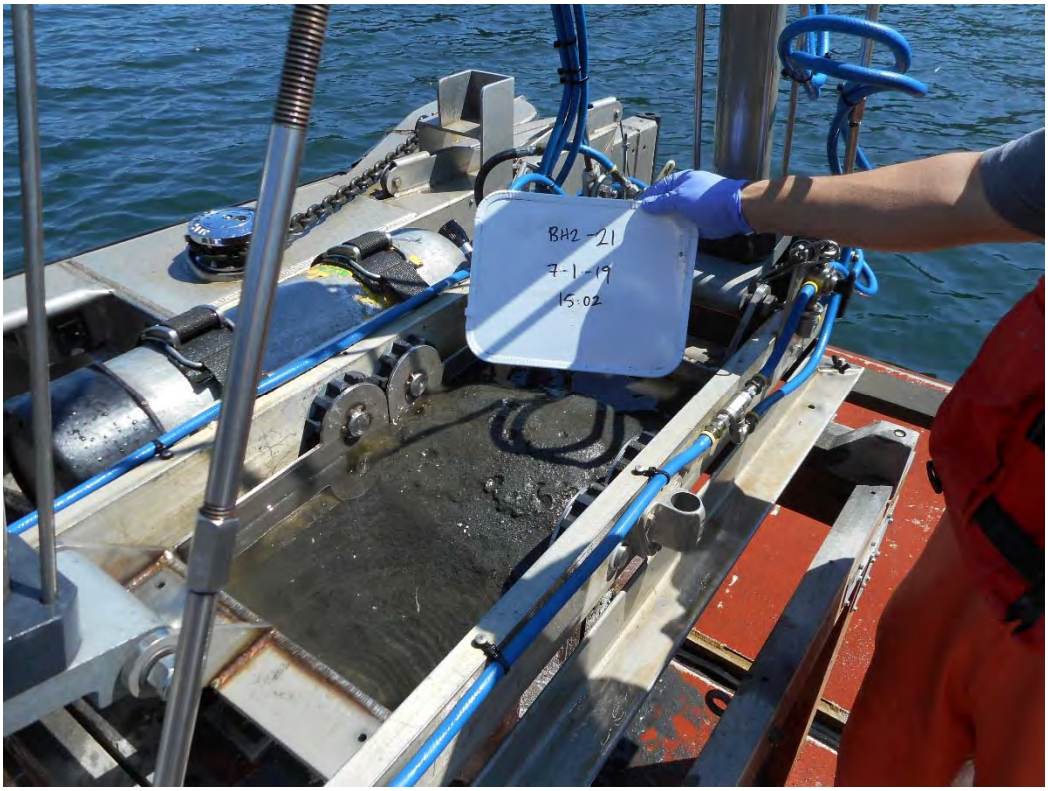


Station BH2-18

Station BH2-19

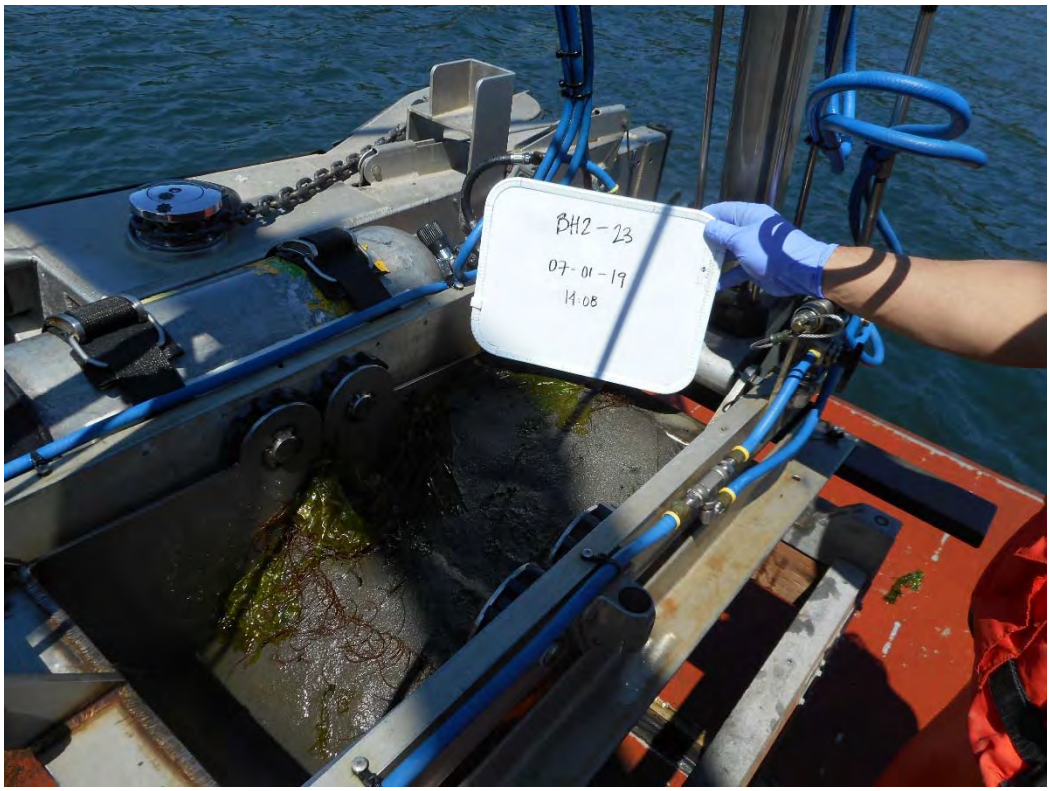


Station BH2-20



Station BH2-21

Station BH2-22

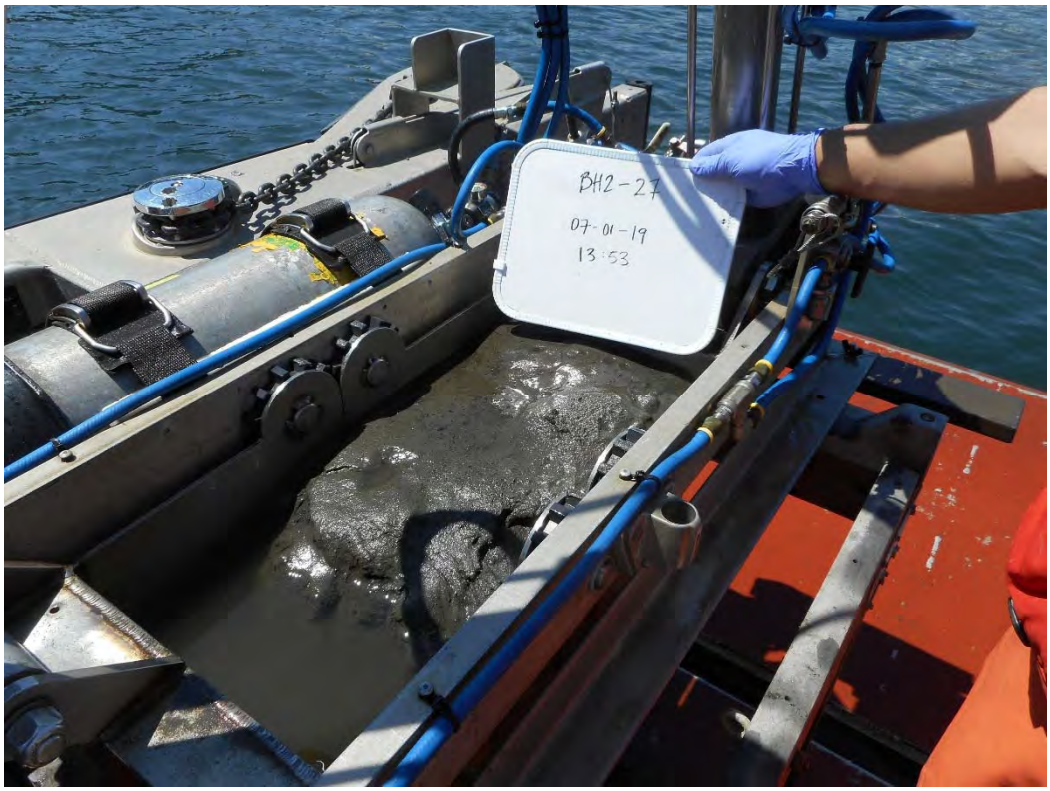


Station BH2-23

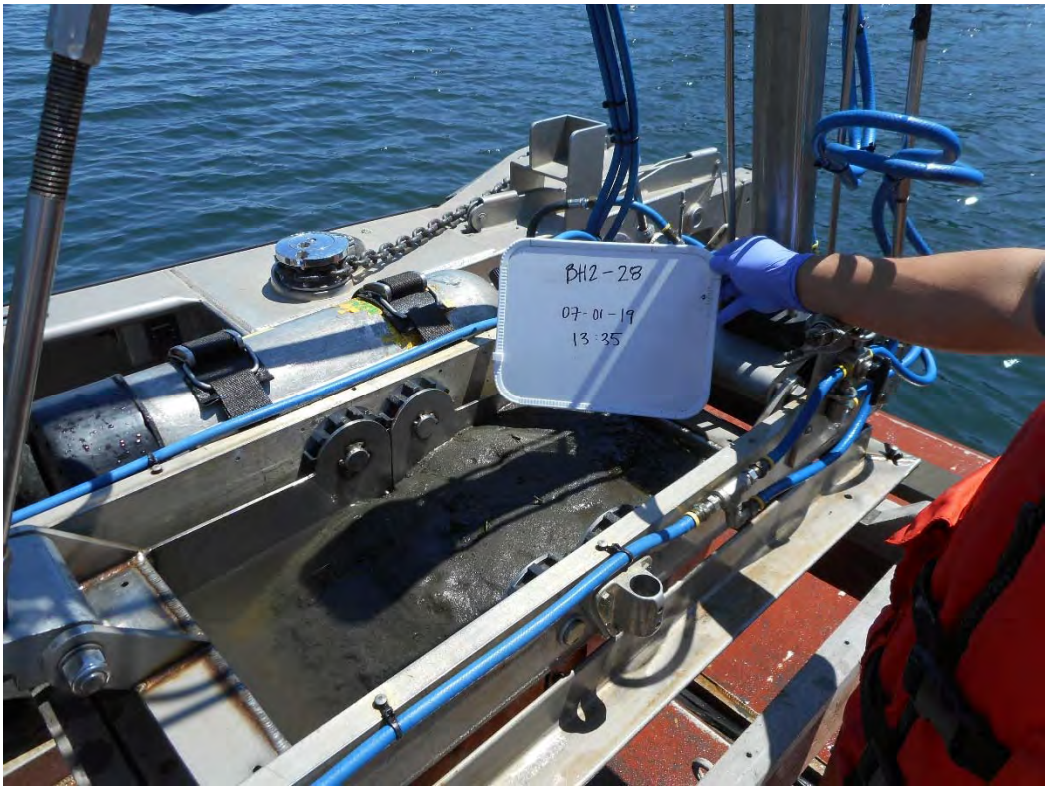
Station BH2-24

Station BH2-25

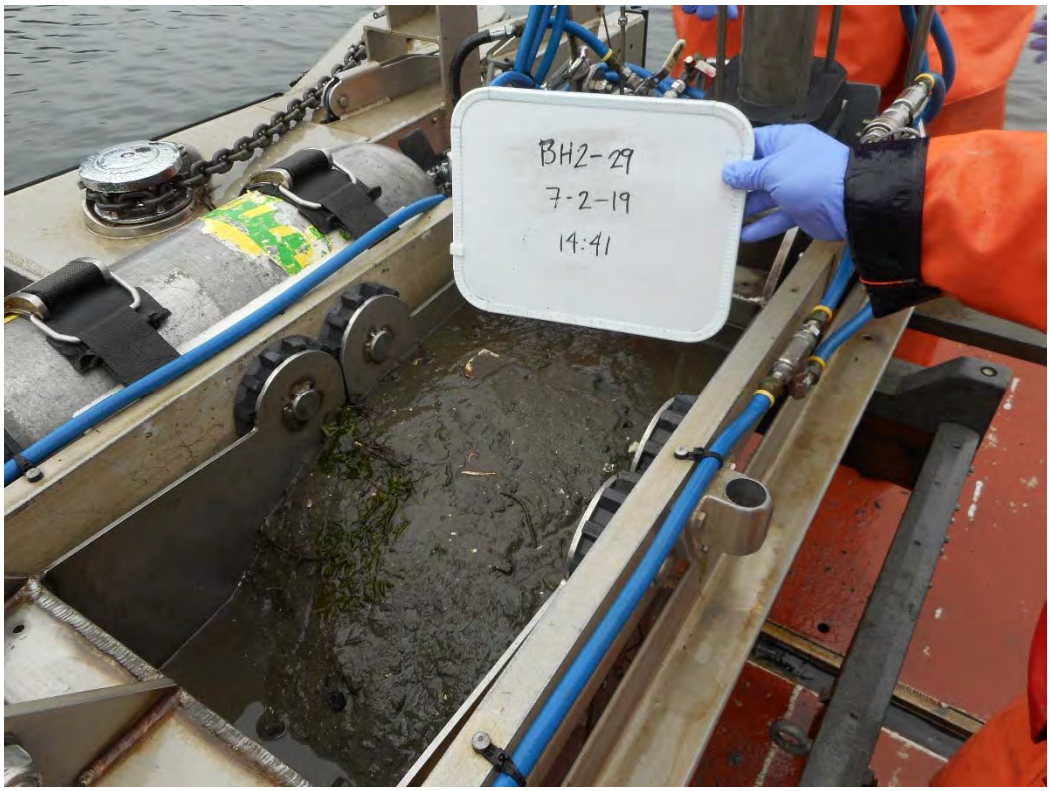
Station BH2-26



Station BH2-27



Station BH2-28



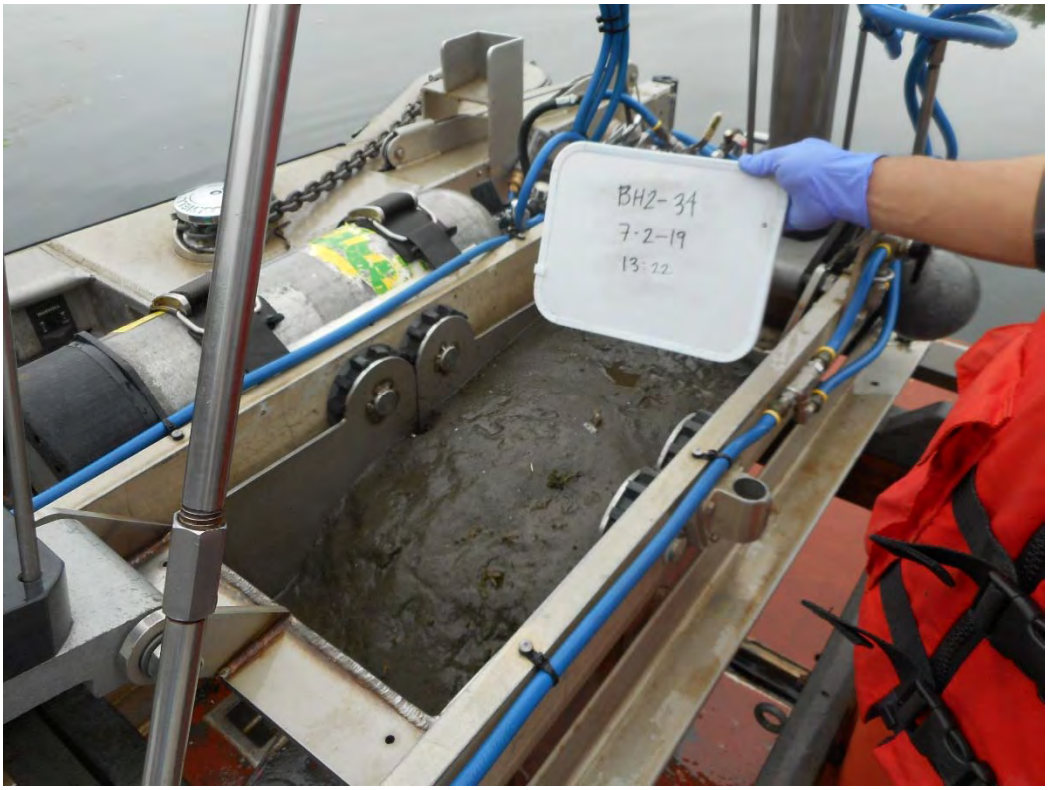
Station BH2-29

Station BH2-30

Station BH2-31

Station BH2-32

Station BH2-33



Station BH2-34

Station BH2-35

Station BH2-36

Station BH2-37

Station BH2-38

Station BH2-39

Station BH2-40

Attachment 4

Field Logbook

1

CONTENTS

PAGE	REFERENCE	DATE

Blakely Harbor Park 7/1/19

0700 Arrive edmonds
0755 Catch ferry to Kingston, transit to Bainbridge
Personnel: J. Nikayama
S. Shusta
0915 Arrive @ Park. Met with John Evered.
Prep equipment
Attempt intertidal sampling by foot.

0950 Collect BH2-06
Return to beach to process.
Attempted to reach BH2-03 by foot but sediments too unconsolidated. Will Attempt log pond sampling by boat.
1040 Collect BH2-09
1103 Collect BH2-08.
Attempted to reach BH2-18, but tide has come in. Will sample by boat.
Pack up gear and proceed to Eagle Harbor.

Scale: 1 square = _____

Rite in the Rain

7/1/19

1230 Arrive Eagle Harbor boat Launch, load Sampling equipment on Carolyn Dow.
Eric : Andrew
1300 Conduct vessel safety briefing
Weather: Mostly Sunny, 70°F.
1305 Depart for Blakely Harbor
1335 grab sample @ BH2-28
1345 water depth @ BH2-28
33.8' @ 13:45
(returned to BH2-28 to get water depth)

1353 32.0': water depth
Station BH2-27

1408 Station BH2-23
7.2' water depth

During transit to BH2-24, noticed cable crossing sign on shore. Cable runs from shore to middle of harbor and out to west Seattle. Avoiding area until further instruction from Leidos.

7/1/19

1434 Station BH2-19
water depth: 6.3'

1445 Station BH2-20
water depth 23.3'

1502 Station BH2-21
water depth: 32.0'

1514 Station BH2-22
water depth: 33.5'

1527 Station BH2-18
water depth: 11.6'
took dioxins/furans dup.

1544 Station BH2-17
water depth: 22.3'

1557 Station BH2-14
water depth: 14.6'

1612 Station BH2-12
water depth: 11.8'
Almost no penetration - wood debris
Added weight to power grab

7/1/19

1619 Station BH2-12
water depth: 12.7'
No penetration. Added more weight to power grab + changed air tank.

1629 Station BH2-12
water depth: 11.4'
No penetration. - wood debris

1640 Station BH2-07
water depth: 12.4'

1656 Station BH2-03
water depth: 6.1'

1710 Station BH2-02
water depth: 6.9'

MS/MSD: 2 extra H_2S
2 extra PCB/SVOCS
2 extra metals/TOC/Ammonia, Hg

1727 Station BH2-SSS 01
water depth: 7.1'

1741 Station BH2-05
water depth: 7.7'

1754 Station BH2-04
water depth: 7.6'

collected field ~~trip~~ dups. + trips.

1812 Station BH2-10
water depth: 11.2

1824 Station BH2-11
water depth: 13.2'

~~1838~~ SSS 1841 Station BH2-13
water depth: ~~12.7'~~ SSS 14.1'

1854 Station BH2-15
water depth: 13.0'

7/1/19

~~19~~ ~~Station BH2-12~~ SSS
~~water depth:~~

1915 collected equipment rinsate blanks
- 2 x PCBs (amber)
- 1 x Hg (plastic)
- 1 x metals (plastic)
- 2 x SVOCs (1 L amber)

- Stainless bowl and spoon rinsed with DI

1935 Returned to dock @ Eagle Harbor

Fed Ex #s for 3 coolers to TA Denver's
1065 6703 0339
0340
0350

7/2/19

Blakely Harbor Park
Sed Investigation Day 2.

0910 Arrive at Park will attempt to sample BH2-12 at low tide. 3 attempts with grab yesterday came up with board pieces.

1023 - collected BH2-12 sediment on shore during low tide
- wood planks substrate w/ pockets of sediment

1045 Randy, utility locator stopped by the site. He indicated the US West cable that runs N-S across the harbor is abandoned. It is about 1 inch in thickness and should be buried.
Based on this information we may move proposed sampling locations that may sit along this ~~~~ approximate N-S line, as well as another N-S line on the vessel's navigation chart.
John Evered was also present during this meeting and was informed of this plan.

Packed up gear and head to Eagle Harbor.

Scale: 1 square = _____
Rite in the Rain 7
Scale: 1 square = _____

7/2/19 Vessel Sampling off Carolyn Dow

1205 Station BH2-40
water depth: 44.6'

1218 Station BH2-39
water depth: 40.7'

1230 Station BH2-38
water depth: 40.5'

1242 Station BH2-37
water depth: 26.7'

1254 Station BH2-36
water depth: 39.3'

1308 Station BH2-35
water depth: 35.7'

1322 Station BH2-34
water depth: 34.2'

MS/MSD: 2 extra H_2S
2 extra SVOCs/PCBs
2 extra TOC/NH_3/metals/Hg

Light to mod. rain showers.

1341 Station BH2-33
water depth: 34.0'

1357 Station BH2-32
water depth: 19.0'

1415 Station BH2-31
water depth: 34.0'

1429 Station BH2-30
water depth: 20.3'

1441 Station BH2-29
water depth: 31.4'

1456 Station BH2-26
water depth: 22.8'

1511 Station BH2-25
water depth: 33.3'
collected field dups. & trips.

7/2/19

1525 Station BH2-24
water depth: 34.1'

1543 Station BH2-16
water depth: 13.3'

1602 Collected equipment rinsate blanks
2x PCBs (amber)
1x Hg (plastic)
1x metals (plastic)
2x SVOCs (1 L amber)
Stainless bowl and spoon rinsed with DI

1602 Hett collected rinsate blanks
SSS
2x PCBs
1x Hg
1x metals
2x SVOCs

1644 returned to dock, demobilized vessel.

Scale: 1 square = _____

Scale: 1 square = _____

Attachment 5

Grab Logbook

Blakely Harbor Park
Sediment Investigation

Grab Logbook

NewFields

115 2nd Avenue N, Suite 100
Edmonds, WA 98020

Project: 2019 Blakely Harbor Sediment Investigation
Location: _____

Station: _____
Date/Time: _____

Crew: John Nakayama, Stephani Shusta

Grab # BH2-06	**Bottom Depth** intertidal	**Penetration Depth** surface top 10 cm	**Time** 07/01/19 @ 09:50
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	47.59687 N
Gravel	Brown	Slight	122.51671 W
Sand C M F	Brown surface	Moderate	Lots of shore crabs
Silt / Clay	Gray	Strong	Wood chunks in top 10cm
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Grab # BH2-09	**Bottom Depth** intertidal	**Penetration Depth** surface top 10cm	**Time** 07/01/19 @ 10:40
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	47.59658 N
Gravel	Brown	Slight	122.51455 W
Sand C M F	Brown surface	Moderate	metal debris
Silt / Clay	Gray	Strong	algae
Organic matter	Black	Overwhelming	polychaetes
Woody debris	Other:	H_2S	brick pieces
Shell debris		Petroleum	large wood chunk

Grab # BH2-08	**Bottom Depth** intertidal	**Penetration Depth** surface top 10cm 5-8cm	**Time** 07/01/19 @ 11:03
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	47.59629 N
Gravel	Brown	Slight	122.51492 W
Sand C M-F	Brown surface	Moderate	algae
Silty Clay	Gray	Strong	can't get more than 5cm - 8cm
Organic matter	Black	Overwhelming	before hitting wood
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Grab # BH2-28	**Bottom Depth** 32.0'	**Penetration Depth** 25cm	**Time** 07/01/19 @ 13:35
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	scattered tube worms @ surface
Gravel	Brown	Slight	ulva
Sand C M-F	Brown surface	Moderate	polychaetes
Silty Clay	Gray	Strong	small sea pen
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Project: 2019 Blakely Harbor Sediment Investigation
Location: _____

Station: _____
Date/Time: _____

Crew: John Nakayama, Stephani Shusta, Eric Parker, Andrew

Grab # BH2-21	**Bottom Depth** 32.0'	**Penetration Depth** 25 cm	**Time** 7-1-19 @ 15:02
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	(Drab olive)	(None)	ulva
Gravel	(Brown – organic rich surface layer)	Slight	tunicates
(Sand) C (M-F)	Brown surface	Moderate	
Silt / Clay	Gray	Strong	
Organic matter	Black	Overwhelming	
(surface) Woody debris	Other:	H_2S	
(trace) Shell debris		Petroleum	

Grab # BH2-22	**Bottom Depth** 33.5'	**Penetration Depth**	**Time** 7-1-19 @ 1514
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	(Drab olive)	(None)	ghost shrimp
Gravel	Brown	Slight	
(Sand) C M (F)	Brown surface	Moderate	
(Silt) / Clay	Gray	Strong	
(Organic matter)	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Grab # BH2-18	**Bottom Depth** 11.6'	**Penetration Depth** 25 cm	**Time** 7-1-19 @ 15:27
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	(Dioxin Dup)
Gravel	Brown	(Slight)	ulva - abundant
(Sand) C M (F)	Brown surface	Moderate	amphipods
(Silt) / Clay	Gray	Strong	small gunnel
Organic matter	Black	Overwhelming	
Woody debris	Other:	(H_2S)	
(trace) Shell debris fine	(Dark olive gray)	Petroleum	

Grab # BH2-17	**Bottom Depth** 22.3'	**Penetration Depth** ~~22.3'~~ 25cm	**Time** 7-1-19 @ 15:44
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
(Cobble) & bricks	Drab olive	None	crab
Gravel	Brown	(Slight)	ulva
(Sand) C M (F)	Brown surface	Moderate	glass
(Silt) / Clay	Gray	Strong	
(Organic matter)	Black	Overwhelming	
(scattered) Woody debris - chunks	Other:	(H_2S)	
(moderate) Shell debris	(Dark olive gray)	Petroleum	

Project: 2019 Blakely Harbor Sediment Investigation

Station: _____

Location: _____

Date/Time: _____

Crew: John Nakayama, Stephani Shusta, Eric Parker, Andrew

Grab # BH2-14	**Bottom Depth** 14.6'	**Penetration Depth** 20 cm	**Time** 7-1-19 @ 1557
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:* ulva
Cobble	Drab olive	~~None~~ sss	
Gravel (scattered)	Brown	Slight	
Sand C M (F)	Brown surface	Moderate	
Silt / Clay	Gray	Strong	
Organic matter (wood)	Black	Overwhelming	
Woody debris	Other:	H_2S	
~~Shell debris~~ (moderate)	olive gray	Petroleum	

Grab # BH2-12	**Bottom Depth** sss ~~11.8'~~	**Penetration Depth**	**Time** 7-1-19 @ sss ~~1612~~
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:* Tried 3 grabs. No penetration. Wood debris.
Cobble	Drab olive	None	
Gravel	Brown	Slight	
Sand C M F	Brown surface	Moderate	
Silt / Clay	Gray	Strong	
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Grab # BH2-07	**Bottom Depth** 12.4'	**Penetration Depth** 20 cm	**Time** 7-1-19 @ 1640
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:* ulva filamentous algae
Cobble	Drab olive	None	
Gravel	Brown	Slight	
Sand C M (F)	Brown surface	Moderate	
Silt / Clay	Gray	Strong	
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris	olive gray	Petroleum	

Grab # BH2-03	**Bottom Depth** 6.1'	**Penetration Depth** 725	**Time** 7-1-19 @ 1656
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:* slight overpenetration sampled from side
Cobble	Drab olive	~~None~~ sss	
Gravel	Brown	Slight	
(slight) Sand C M (F)	Brown surface	Moderate	
Silt / Clay	Gray	Strong	
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Project: 2019 Blakely Harbor Sediment Investigation **Station:** _____

Location: _____ **Date/Time:** _____

Crew: John Nakayama, Stephani Shusta, Eric Parker, Andrew

Grab # BH2-02	**Bottom Depth** 6.9'	**Penetration Depth** 25cm	**Time** 7-1-19 @ 1710
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	(Drab olive)	(None)	burrows, scattered – shore crabs
Gravel	Brown	Slight	ulva
(Sand) C M (F)	Brown surface	Moderate	fine organic wood particles on surface
(Silt) / Clay	Gray	Strong	
(Organic matter)	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Grab # BH2-01	**Bottom Depth** 7.1'	**Penetration Depth** 25cm	**Time** 7-1-19 @ 1727
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	(Drab olive)	(None)	burrows - shore crabs
Gravel	Brown	Slight	ulva
(Sand) C M (F)	Brown surface	Moderate	eel grass strand
(Silt / Clay)	Gray	Strong	fine organic wood particles on surface
(Organic matter)	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Grab # BH2-05	**Bottom Depth** 7.7'	**Penetration Depth** 25cm	**Time** 7-1-19 @ 1741
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	(Drab olive)	(None)	burrows
Gravel	Brown	Slight	ulva
(Sand) C M (F)	Brown surface	Moderate	eelgrass
(Silt / Clay)	Gray	Strong	
(fine Organic matter wood)	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Grab # BH2-04	**Bottom Depth** 7.6'	**Penetration Depth** 25cm	**Time** 7-1-19 @ 1754
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	(Drab olive)	(None)	burrows
Gravel	Brown	Slight	fine organics on surface
(Sand) C M (F)	Brown surface	Moderate	polychaete tubes
(Silt) / Clay	Gray	Strong	amphipods
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Project: 2019 Blakely Harbor Sediment Investigation
Location: _____

Station: _____
Date/Time: _____

Crew: John Nakayama, Stephani Shusta, Eric Parker, Andrew

Grab # BH2-10	**Bottom Depth** 11.2'	**Penetration Depth** 20 cm	**Time** 7-1-19 @ 1812
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:* sloped surface, ulva, scattered shell debris, compact sand
Cobble	Drab olive 2cm (top)	None	
Gravel	Brown	Slight	
Sand C M–F	Brown surface	Moderate	
Silt / Clay	Gray (< 2cm)	Strong	
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Grab # BH2-11	**Bottom Depth** 13.2'	**Penetration Depth** 25 cm	**Time** 7-1-19 @ 1824
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:* thick ulva on surface, filamentous algae, amphipods
Cobble	Drab olive	None	
Gravel	Brown	Slight	
Sand C M F	Brown surface	Moderate	
Silt / Clay	Gray	Strong	
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Grab # BH2-13	**Bottom Depth** 14.1'	**Penetration Depth** 25 cm	**Time** 7-1-19 @ 1841
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:* ulva, filamentous algae
Cobble	Drab olive	None	
Gravel	Brown	Slight	
Sand C M F	Brown surface	Moderate	
Silt / Clay	Gray	Strong	
Fine Organic matter	Black	Overwhelming	
Woody debris chunks	Other:	H_2S	
Shell debris		Petroleum	

Grab # BH2-15	**Bottom Depth** 13.0'	**Penetration Depth** 25 cm	**Time** 7-1-19 @ 1854
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	
Gravel	Brown	Slight	
Sand C M F	Brown surface	Moderate	
Silt / Clay	Gray	Strong	
Fine Organic matter	Black	Overwhelming	
Woody debris on surface	Other:	H_2S	
Shell debris		Petroleum	

Project: 2019 Blakely Harbor Sediment Investigation **Station:** _____

Location: _____ **Date/Time:** _____

Crew: John Nakayama, Stephani Shusta, Eric Parker, Andrew

Grab # 12 BH2-46 sss	**Bottom Depth** intertidal	**Penetration Depth** top 10 cm	**Time** 7-2-19 @ 1023
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	47.59631 N
Gravel scattered	Brown	Slight	122.51454 W
Sand C-M-F	Brown surface	Moderate	covered in large wood debris - planks
Silt / Clay	Gray	Strong	ulva
Organic matter	Black	Overwhelming	filamentous algae
Woody debris	Other:	H_2S	wood plank substrate w/ pockets of sediment
moderate Shell debris		Petroleum	

Grab # BH2-40	**Bottom Depth** 44.6'	**Penetration Depth** 24cm	**Time** 7-2-19 @ 1205
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	rock w/ barnacles
Gravel	Brown	Slight	larger surface tubes
Sand C M F	Brown surface	Moderate	scattered ulva
slight Silt / Clay	Gray	Strong	maybe a few shells
Organic matter	Black	Overwhelming	healthy sand
Woody debris	Other:	H_2S	
trace Shell debris fine		Petroleum	

Grab # BH2-39	**Bottom Depth** 40.7'	**Penetration Depth** 25cm	**Time** 7-2-19 @ 1218
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	small gastropods on surface
Gravel	Brown	Slight	surface tubes
Sand C M F	Brown surface	Moderate	scattered ulva
slight Silt / Clay	Gray	Strong	
fine Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Grab # BH2-38	**Bottom Depth** 40.5'	**Penetration Depth** 25 cm	**Time** 7-2-19 @ 1230
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	polychaete
Gravel	Brown	Slight	ulva debris
Sand C M F	Brown surface	Moderate	
Silt / Clay	Gray	Strong	
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
trace Shell debris		Petroleum	

Project: 2019 Blakely Harbor Sediment Investigation **Station:** _____

Location: _____ **Date/Time:** _____

Crew: John Nakayama, Stephani Shusta, Eric Parker, Andrew

Grab # BH2-37	**Bottom Depth** 26.7'	**Penetration Depth** 25cm	**Time** 7-2-19 @ 1242
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	(Drab olive)	(None)	large woody debris
Gravel	(Brown)	Slight	surface ulva
Sand C M (F)	Brown surface	Moderate	scattered shell particles
Silt / Clay	Gray	Strong	
(Organic matter) abundant	Black	Overwhelming	
(Woody debris)	Other:	H_2S	
(Shell debris)		Petroleum	

Grab # BH2-36	**Bottom Depth** 39.3'	**Penetration Depth** 25cm	**Time** 7-2-19 @ 1254
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	(Drab olive)	(None)	sloped
Gravel	Brown	Slight	tube worms
(Sand) C M (F)	Brown surface	Moderate	3 snails on surface
slight Silt / Clay	Gray	Strong	molpadia sea cucumber in jaw
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
trace (Shell debris)		Petroleum	

Grab # BH2-35	**Bottom Depth** 35.7'	**Penetration Depth** 25cm	**Time** 7-2-19 @ 1308
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	(Drab olive)	(None)	sloped
Gravel	Brown	Slight	hermit crab
(Sand) C M (F)	Brown surface	Moderate	snails
(Silt) / Clay	Gray	Strong	tube worms
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
a few (Shell debris)		Petroleum	

Grab # BH2-34	**Bottom Depth** 34.2'	**Penetration Depth** 25cm	**Time** 7-2-19 @ 1322
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	(Drab olive)	(None)	scattered surface tubes
Gravel	(Brown)	Slight	ulva particles
(Sand) C M (F)	Brown surface	Moderate	few small snails
(Silt) / Clay	Gray	Strong	
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
scattered (Shell debris) few		Petroleum	

Project: 2019 Blakely Harbor Sediment Investigation
Location: _____

Station: _____
Date/Time: _____

Crew: John Nakayama, Stephani Shusta, Eric Parker, Andrew

Grab # BH2-33	**Bottom Depth** 34.0'	**Penetration Depth** 25cm	**Time** 7-2-19 @ 1341
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	(Drab olive)	None	fine organics surface
Gravel	Brown	(Slight) organic odor	twig
(Sand) C M (F)	Brown surface	Moderate	trace ulva
(Silt / Clay)	Gray	Strong	
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Grab # BH2-32	**Bottom Depth** 19.0'	**Penetration Depth** 25 cm	**Time** 7-2-19 @ 1357
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	(Drab olive)	None	organic-rich
Gravel	Brown	(Slight)	wood pieces on surface
(Sand) C M (F)	Brown surface	Moderate	some ulva
(Silt / Clay)	Gray	Strong	1 tube worm
(Organic matter)	Black	Overwhelming	
(Woody debris)	Other:	(H_2S)	
(Shell debris)		Petroleum	

Grab # BH2-31	**Bottom Depth** 34.0'	**Penetration Depth** 25cm	**Time** 7-2-19 @ 1415
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	(Drab olive)	(None)	sloped
Gravel	Brown	Slight	rock w/ barnacles
Sand C (M-F)	Brown surface	Moderate	tubes
(Silt / Clay)	(Gray)	Strong	scattered shell particles
Organic matter	Black	Overwhelming	ulva & filamentous algae pieces
Woody debris	Other:	H_2S	snail stuck in jaws
(Shell debris)		Petroleum	

Grab # BH2-30	**Bottom Depth** 20.3'	**Penetration Depth** 20cm	**Time** 7-2-19 @ 1429
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	(Drab olive)	None	Big. wood debris in jaws
Gravel	Brown	(Slight organic odor)	
(Sand) C (M-F)	Brown surface	Moderate	
(Silt / Clay)	Gray	Strong	
Organic matter	Black	Overwhelming	
(Woody debris) large at depth	Other:	H_2S	
(Shell debris)		Petroleum	

Project: 2019 Blakely Harbor Sediment Investigation

Station: _____

Location: _____

Date/Time: _____

Crew: John Nakayama, Stephani Shusta, Eric Parker, Andrew

Grab # BH2-29	**Bottom Depth** 31.4'	**Penetration Depth** 25 cm	**Time** 7-2-19 @ 1441
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	ulva
Gravel	Brown	Slight	filamentous algae
Sand C M F	Brown surface	Moderate	moderate wood particles
Silt / Clay	Gray	Strong	large tubes
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Grab # BH2-26	**Bottom Depth** 22.8'	**Penetration Depth** 25 cm	**Time** 7-2-19 @ 1456
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	moderate organics
Gravel	Brown	Slight	scattered fine wood debris on surface
Sand C M F	Brown surface	Moderate	
Silt / Clay	Gray	Strong	wood chunk
Organic matter	Black	Overwhelming	shell
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Grab # BH2-25	**Bottom Depth** 33.3'	**Penetration Depth** 25 cm	**Time** 7-2-19 @ 1511
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	kelp
Gravel	Brown	Slight	ulva
Sand C M F	Brown surface	Moderate	
Silt / Clay	Gray	Strong	
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Grab # BH2-24	**Bottom Depth** 34.1'	**Penetration Depth** 24 cm	**Time** 7-2-19 @
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	tube worms
Gravel	Brown	Slight	trace shell
Sand C M-F	Brown surface	Moderate	ulva
Silt / Clay	Gray pockets	Strong	
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Project: 2019 Blakely Harbor Sediment Investigation

Station: ____________________

Location: ____________________

Date/Time: ____________________

Crew: John Nakayama, Stephani Shusta, Eric Parker, Andrew

Grab #	**Bottom Depth**	**Penetration Depth**	**Time**
BH2-16	13.3'	20 cm	7-2-19 @ 1543
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	filamentous algae
Gravel	Brown	Slight	significant wood debris in jaws
Sand C M F	Brown surface	Moderate	snail
Silt / Clay	Gray	Strong	
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Grab #	**Bottom Depth**	**Penetration Depth**	**Time**
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	
Gravel	Brown	Slight	
Sand C M F	Brown surface	Moderate	
Silt / Clay	Gray	Strong	
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Grab #	**Bottom Depth**	**Penetration Depth**	**Time**
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	
Gravel	Brown	Slight	
Sand C M F	Brown surface	Moderate	
Silt / Clay	Gray	Strong	
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Grab #	**Bottom Depth**	**Penetration Depth**	**Time**
Sediment Type:	*Sediment Color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	
Gravel	Brown	Slight	
Sand C M F	Brown surface	Moderate	
Silt / Clay	Gray	Strong	
Organic matter	Black	Overwhelming	
Woody debris	Other:	H_2S	
Shell debris		Petroleum	

Attachment 6

Chain-of-Custody Forms

Project Name:	2019 Blakely Harbor Sediment Investigation
Project Location:	Bainbridge Island, Washington
Client/Point of Contact:	John Evered, WA State Dept. of Ecology
Destination Lab:	Eurofins TestAmerica
Destination Contact:	Nate Lewis (253) 248-4975
Turn around Time:	Standard
Sample Originator:	Leidos/NewFields
Project Manager:	Tom Dubé/Tim Hammermeister
Originator Phone/Email:	(425) 482-3325 / thomas.e.dube@leidos.com
Sample Collectors:	NewFields

Analyses / Tests

Number of Shipping Containers: 11

Invoice to: Leidos

Address:
18939 120th Ave NE
Suite 112
Bothell WA, 98011
thomas.e.dube@leidos.com

Project Number:
860.0195.000

Sample ID	Matrix	Date	Time	No. and Type of Containers	Grain size	Total solids, TVS	TOC, NH_3, metals, Hg	SVOCs, PCBs	Total sulfides	Dioxins/Furans	Jar #s Comments
BH2-06-S	Sediment	7/1/19	0950	4 glass	X		X	X		X	5037, 5039, 5040, 5042
BH2-09-S			1040		X		X	X		X	5054, 5056, 5057, 5059
BH2-08-S			1103		X		X	X		X	5048, 5050, 5051, 5053
BH2-28-S			1335	3 glass	X		X	X			5153, 5155, 5156
BH2-27-S			1353		X		X	X			5148, 5150, 5151
BH2-23-S			1408		X		X	X			5128, 5130, 5131
BH2-19-S			1434		X		X	X			5107, 5109, 5110
BH2-20-S			1445		X		X	X			5112, 5114, 5115
BH2-21-S			1502	4 glass	X		X	X		X	5117, 5119, 5120, 5122
BH2-22-S			1514	3 glass	X		X	X			5123, 5125, 5126
BH2-18-S			1527	4 glass	X		X	X		X	5101, 5103, 5104, 5106
BH2-18-D			1527	1 glass						X	5231
BH2-17-S			1544	3 glass	X		X	X			5096, 5098, 5099
BH2-14-S			1557		X		X	X			5080, 5082, 5083
BH2-07-S			1640		X		X	X			5043, 5045, 5046

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Date/Time: 7/2/19 0815	Date/Time: 7/3/19 0815	Date/Time:	Date/Time:
Affiliation: NewFields	Affiliation: UKEA	Affiliation:	Affiliation:

• Sample originator and destination laboratory each sign and retain one copy.

Project Name:	2019 Blakely Harbor Sediment Investigation
Project Location:	Bainbridge Island, Washington
Client/Point of Contact:	John Evered, WA State Dept. of Ecology
Destination Lab:	Eurofins TestAmerica
Destination Contact:	Nate Lewis (253) 248-4975
Turn around Time:	Standard
Sample Originator:	Leidos/NewFields
Project Manager:	Tom Dubé/Tim Hammermeister
Originator Phone/Email:	(425) 482-3325 / thomas.e.dube@leidos.com
Sample Collectors:	NewFields

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Address:
18939 120th Ave NE
Suite 112
Bothell WA, 98011
thomas.e.dube@leidos.com

Project Number:
860.0195.000

Sample ID	Matrix	Date	Time	No. and Type of Containers	Grain size	Total solids, TVS	TOC, NH_3, metals, Hg	SVOCs, PCBs	Total sulfides	Dioxins/Furans	TOC, NH_3						# of jars	Comments
BH2-03-S	Sediment	7/1/19	1656	4 glass	X		X	X		X								5021, 5023, 5024, 5026
BH2-02-S	"	"	1710	7 glass	X		X	X										Extra jars for MS/MSD
BH2-01-S	"	"	1727	3 glass	X		X	X										5011, 5013, 5014
BH2-05-S	"	"	1741	3 glass	X		X	X										5032, 5034, 5035
BH2-04-S	"	"	1254	"	X		X	X										5027, 5029, 5030
BH2-04-D	"	"	1254	"	X		X	X										5221, 5223, 5224
BH2-04-T	"	"	1754	2 glass	X		X	X	9		X						2	5232, 5234 ~~No metals or Hg~~
BH2-10-S	"	"	1812	3 glass	X		X	X										5060, 5062, 5063
BH2-11-S	"	"	1824	3 glass	X		X	X										5065, 5067, 5068
BH2-13-S	"	"	1841	"	X		X	X										5075, 5077, 5078
BH2-15-S	"	"	1854	"	X		X	X										5085, 5087, 5088

5016
5018
5019
5261-5264

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Date/Time: 7/3/19 0815	Date/Time: 7-3-19 0815	Date/Time:	Date/Time:
Affiliation: NewFields	Affiliation: TASEA	Affiliation:	Affiliation:

• Sample originator and destination laboratory each sign and retain one copy.

Project Name:	2019 Blakely Harbor Sediment Investigation
Project Location:	Bainbridge Island, Washington
Client/Point of Contact:	John Evered, WA State Dept. of Ecology
Destination Lab:	Eurofins TestAmerica
Destination Contact:	Nate Lewis (253) 248-4975
Turn around Time:	Standard
Sample Originator:	Leidos/NewFields
Project Manager:	Tom Dubé/Tim Hammermeister
Originator Phone/Email:	(425) 482-3325 / thomas.e.dube@leidos.com
Sample Collectors:	NewFields

Number of Shipping Containers: 11

Invoice to: Leidos
Address:
18939 120th Ave NE
Suite 112
Bothell WA, 98011
thomas.e.dube@leidos.com

Project Number:
860.0195.000

Sample ID	Matrix	Date	Time	No. and Type of Containers	Grain size	Total solids, TVS	TOC, NH_3, metals, Hg	SVOCs, PCBs	Total sulfides	Dioxins/Furans							Jar #s	Comments
BH2-12-S	Sediment	7/2/19	1023	5 glass	X	X	X	X	X								5070-5074	
BH2-40-S	↓	↓	1205	↓	X	X	X	X	X								5216-5220	
BH2-39-S			1218	6 glass	X	X	X	X	X	X							5210-5215	
BH2-38-S			1230	5 glass	X	X	X	X	X								5205-5209	
BH2-37-S			1242	6 glass	X	X	X	X	X	X							5199-5204	
BH2-36-S			1254	5 glass	X	X	X	X	X								5194-5198	
BH2-35-S			1308	↓	X	X	X	X	X								5189-5193	Extra jars for MS/MSD
BH2-34-S			1322	11 glass	X	X	X	X	X								5184-5188, 5268-5270	
BH2-33-S			1341	5 glass	X	X	X	X	X								5179-5183	
BH2-32-S			1357	↓	X	X	X	X	X								5174-5178	
BH2-31-S			1415	6 glass	X	X	X	X	X	X							5168-5173	
BH2-30-S			1429	5 glass	X	X	X	X	X								5163-5167	
BH2-29-S			1441		X	X	X	X	X								5158-5162	
BH2-26-S			1456		X	X	X	X	X								5143-5147	
BH2-25-S	↓	↓	1511	↓	X	X	X	X	X								5138-5142	

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Date/Time: 7/2/19 0815	Date/Time: 7/3/19 0815	Date/Time:	Date/Time:
Affiliation: NewFields	Affiliation: TAL SEA	Affiliation:	Affiliation:

• Sample originator and destination laboratory each sign and retain one copy.

Project Name:	2019 Blakely Harbor Sediment Investigation
Project Location:	Bainbridge Island, Washington
Client/Point of Contact:	John Evered, WA State Dept. of Ecology
Destination Lab:	Eurofins TestAmerica
Destination Contact:	Nate Lewis (253) 248-4975
Turn around Time:	Standard
Sample Originator:	Leidos/NewFields
Project Manager:	Tom Dubé/Tim Hammermeister
Originator Phone/Email:	(425) 482-3325 / thomas.e.dube@leidos.com
Sample Collectors:	NewFields

Analyses / Tests

Number of Shipping Containers: 11

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Project Number:
860.0195.000

Sample ID	Matrix	Date	Time	No. and Type of Containers	Grain size	Total solids, TVS	TOC, NH_3, metals, Hg	SVOCs, PCBs	Total sulfides	Dioxins/Furans	TOC, NH_3	Mercury					Jar #s Comments
BH2-25-D	Sediment	7/2/19	1511	5 glass	X	X	X	X	X								5226-5230
BH2-25-T	↓	↓	1511	4 glass	X	X			X		X						5237-5240
BH2-24-S	↓	↓	1525	5 glass	X	X	X	X	X								5133-5137
BH2-16-S	↓	↓	1543	6 glass	X	X	X	X	X	X							5090-5095
BH2-15-ER	Water	7/1/19	1915	4 amber 2 plastic				X				X					5241-5246
BH2-16-ER	↓	7/2/19	1602	↓				X				X					5247-5252
BH2-16-RB	↓	↓	1602	↓				X				X					5253-5258

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Date/Time: 7/3/19 0815	Date/Time: 07-03-19 0815	Date/Time:	Date/Time:
Affiliation: NewFields	Affiliation:	Affiliation:	Affiliation:

• Sample originator and destination laboratory each sign and retain one copy.

Project Name:	2019 Blakely Harbor Sediment Investigation
Project Location:	Bainbridge Island, Washington
Client/Point of Contact:	John Evered, WA State Dept. of Ecology
Destination Lab:	Eurofins TestAmerica
Destination Contact:	Nate Lewis (253) 248-4975
Turn around Time:	Standard
Sample Originator:	Leidos/NewFields
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Sample Collectors:	NewFields

Analyses / Tests

Sample ID	Matrix	Date	Time	No. and Type of Containers	Grain size	Total solids, TVS	TOC, NH_3, metals, Hg	SVOCs, PCBs	Total sulfides	Dioxins/Furans						Comments
BH2-06-S	Sediment	7/1/19	0950	2 9/255		X			X							5038, 5041
BH2-09-S			1040	2 9/255		X			X							5055, 5058
BH2-08-S			1103	2 9/255		X			X							5049, 5052
BH2-28-S			1335			X			X							5154, 5157
BH2-27-S			1353			X			X							5149, 5152
BH2-23-S			1408			X			X							5129, 5132
BH2-19-S			1434			X			X							5108, 5111
BH2-20-S			1445			X			X							5113, 5116
BH2-21-S			1502			X			X							5118, 5121
BH2-22-S			1514			X			X							5124, 5127
BH2-18-S			1527			X			X							5102, 5105
BH2-17-S			1544			X			X							5097, 5100
BH2-14-S			1557			X			X							5081, 5084
BH2-7-S			1640			X			X							5044, 5047
BH2-3-S			1656			X			X							5022, 5025

Number of Shipping Containers:

Invoice to: Leidos

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18939 120th Ave NE
Suite 112
Bothell WA, 98011
thomas.e.dube@leidos.com

Project Number:
860.0195.000

RELINQUISHED BY:	**RECEIVED BY:**	**RELINQUISHED BY:**	**RECEIVED BY:**
Signature:	**Signature:**	**Signature:**	**Signature:**
Date/Time: 7/2/19 0730	**Date/Time:**	**Date/Time:**	**Date/Time:**
Affiliation: NewFields	**Affiliation:**	**Affiliation:**	**Affiliation:**

• Sample originator and destination laboratory each sign and retain one copy.

Project Name:	2019 Blakely Harbor Sediment Investigation
Project Location:	Bainbridge Island, Washington
Client/Point of Contact:	John Evered, WA State Dept. of Ecology
Destination Lab:	Eurofins TestAmerica
Destination Contact:	Nate Lewis (253) 248-4975
Turn around Time:	Standard
Sample Originator:	Leidos/NewFields
Project Manager:	Tom Dubé/Tim Hammermeister
Originator Phone/Email:	(425) 482-3325 / thomas.e.dube@leidos.com
Sample Collectors:	NewFields

Analyses / Tests

Sample ID	Matrix	Date	Time	No. and Type of Containers	Grain size	Total solids, TVS	TOC, NH_3, metals, Hg	SVOCs, PCBs	Total sulfides	Dioxins/Furans	Jar # / Comments
BH2-2-S	Sediment	7/1/19	1710	2 9oz ss		X			X		2 extra for sulfide MS/MSD 5017 5020 5259 5266
BH2-1-S	↓	↓	1727	2 9/2oz ss		X			X		5012, 5015
BH2-5-S			1741	↓		X			X		5033, 5036
BH2-4-S			1754			X			X		5028, 5031
BH2-4-D			1754			X			X		5222, 5225
BH2-4-T			1754			X			X		5233, 5235
BH2-10-S			1812			X			X		5061, 5064
BH2-11-S			1824			X			X		5066, 5069
BH2-13-S			1841			X			X		5076, 5079
BH2-15-S	↓	↓	1854	↓		X			X		5086, 5089

Number of Shipping Containers:

Invoice to: Leidos

Address:
18939 120th Ave NE
Suite 112
Bothell WA, 98011
thomas.e.dube@leidos.com

Project Number:
860.0195.000

RELINQUISHED BY:	**RECEIVED BY:**	**RELINQUISHED BY:**	**RECEIVED BY:**
Signature:	**Signature:**	**Signature:**	**Signature:**
Date/Time: 7/2/19 0730	**Date/Time:**	**Date/Time:**	**Date/Time:**
Affiliation: NewFields	**Affiliation:**	**Affiliation:**	**Affiliation:**

• Sample originator and destination laboratory each sign and retain one copy.

Attachment 7

Sample Container Logbook

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 06
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 0950 / 07-01-19
Crew: JN, SS	**Time/Date Processed:** 1010 / 07-01-19
Comments: 47.59687 N 122.51671 W	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5037	BH 2-06-S	Grain size	TestAmerica
5038	↓	Total solids, TVS	TestAmerica
5039		TOC, NH_3, metals, Hg	TestAmerica
5040		SVOCs, PCBs	TestAmerica
5041		Total sulfides	TestAmerica
5042		Dioxins/Furans	TestAmerica

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 09
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1040 / 7-1-19
Crew: JN, SS	**Time/Date Processed:** 1050 / 7-1-19
Comments: 47.59658N 122.51455W	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5054	BH2-09-S	Grain size	TestAmerica
5055	↓	Total solids, TVS	TestAmerica
5056		TOC, NH_3, metals, Hg	TestAmerica
5057		SVOCs, PCBs	TestAmerica
5058		Total sulfides	TestAmerica
5059	↓	Dioxins/Furans	TestAmerica

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 08
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** ~~7~~ SSS 11:03/7-1-19
Crew: JN, SS	**Time/Date Processed:** 11:15 | 7-1-19
Comments: 47.59629N 122.51492W	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5048	BH2-08-S	Grain size	TestAmerica
5049		Total solids, TVS	TestAmerica
5050		TOC, NH_3, metals, Hg	TestAmerica
5051		SVOCs, PCBs	TestAmerica
5052		Total sulfides	TestAmerica
5053		Dioxins/Furans	TestAmerica

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 28
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1335 / 07-01-19
Crew: JN, SS, Eric Parker, Andrew	**Time/Date Processed:** 1340 / 07-01-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5153	BH2-28-S	Grain size	TestAmerica
5154	↓	Total solids, TVS	TestAmerica
5155	↓	TOC, NH_3, metals, Hg	TestAmerica
5156	↓	SVOCs, PCBs	TestAmerica
5157	↓	Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: J.S. Thurston

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 27
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 7-1-19 | 1353
Crew: JN, SS , EP , A	**Time/Date Processed:** 7-1-19 | 1756
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5148	BH2-27-S	Grain size	TestAmerica
5149	↓	Total solids, TVS	TestAmerica
5150	↓	TOC, NH_3, metals, Hg	TestAmerica
5151	↓	SVOCs, PCBs	TestAmerica
5152	↓	Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 23
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1408 / 7-1-19
Crew: JN, SS, EP, A	**Time/Date Processed:** ~~1412~~ 1424 / 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5128	BH2-23-S	Grain size	TestAmerica
5129	↓	Total solids, TVS	TestAmerica
5130		TOC, NH_3, metals, Hg	TestAmerica
5131		SVOCs, PCBs	TestAmerica
5132		Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 19
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1434 / 7-1-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1438 / 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5107	BH2-19-S	Grain size	TestAmerica
5108	↓	Total solids, TVS	TestAmerica
~~5~~ 5109	↓	TOC, NH_3, metals, Hg	TestAmerica
5110	↓	SVOCs, PCBs	TestAmerica
5111	↓	Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: _____

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 20
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1445 / 7-1-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1453 / 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5112	BH2-20-S	Grain size	TestAmerica
5113	↓	Total solids, TVS	TestAmerica
5114		TOC, NH_3, metals, Hg	TestAmerica
5115		SVOCs, PCBs	TestAmerica
5116		Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 21
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1502 | 7-1-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1506 | 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5117	BH2-21-S	Grain size	TestAmerica
5118	↓	Total solids, TVS	TestAmerica
5119	↓	TOC, NH_3, metals, Hg	TestAmerica
5120	↓	SVOCs, PCBs	TestAmerica
5121	↓	Total sulfides	TestAmerica
5122	↓	Dioxins/Furans	TestAmerica

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2-22
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1514 | 7-1-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1520 | 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5123	BH2-22-S	Grain size	TestAmerica
5124	↓	Total solids, TVS	TestAmerica
5125		TOC, NH_3, metals, Hg	TestAmerica
5126		SVOCs, PCBs	TestAmerica
5127		Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2-18
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1527 | 7-1-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1535 | 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5101	BH2-18-S	Grain size	TestAmerica
5102	↓	Total solids, TVS	TestAmerica
5103		TOC, NH_3, metals, Hg	TestAmerica
5104		SVOCs, PCBs	TestAmerica
5105		Total sulfides	TestAmerica
5106		Dioxins/Furans	TestAmerica
5231	BH2-18-D	Dioxins/Furans	TestAmerica

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 17
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1544 / 7-1-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1551 / 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5096	BH2-17-S	Grain size	TestAmerica
5097	↓	Total solids, TVS	TestAmerica
5098	↓	TOC, NH_3, metals, Hg	TestAmerica
5099	↓	SVOCs, PCBs	TestAmerica
5100	↓	Total sulfides	TestAmerica
	↓ SS	~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: C. C. Rivera

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 14
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1557 / 7-1-19
Crew: JN, SS, ED, A	**Time/Date Processed:** 1604 / 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5080	BH2-14-S	Grain size	TestAmerica
5081	↓	Total solids, TVS	TestAmerica
5082		TOC, NH_3, metals, Hg	TestAmerica
5083		SVOCs, PCBs	TestAmerica
5084		Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 07
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1640 | 7-1-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1646 | 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5043	BH2-07-S	Grain size	TestAmerica
5044	↓	Total solids, TVS	TestAmerica
5045	↓	TOC, NH_3, metals, Hg	TestAmerica
5046	↓	SVOCs, PCBs	TestAmerica
5047	↓	Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: L. L. Rusk

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 03
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1656 / 7-1-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1700 / 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5021	BH2-03-S	Grain size	TestAmerica
5022	↓	Total solids, TVS	TestAmerica
5023		TOC, NH_3, metals, Hg	TestAmerica
5024		SVOCs, PCBs	TestAmerica
5025		Total sulfides	TestAmerica
5026		Dioxins/Furans	TestAmerica

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2-02
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1710 / 7-1-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1717 / 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5016	BH2-02-S	Grain size	TestAmerica
5017		Total solids, TVS	TestAmerica
5018		TOC, NH_3, metals, Hg	TestAmerica
5019		SVOCs, PCBs	TestAmerica
5020		Total sulfides	TestAmerica
~~———~~	~~———~~	~~Dioxins/Furans~~	~~TestAmerica~~
5259	BH2-02-S	Total sulfides	"
5260		Total sulfides	"
5261		SVOCs, PCBs	"
5262		SVOCs, PCBs	"
5263		TOC, NH_3, metals, Hg	"
5264		TOC, NH_3, metals, Hg	"

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 01
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1727 / 7-1-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1734 / 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5011	BH2-01-S	Grain size	TestAmerica
5012	↓	Total solids, TVS	TestAmerica
5013	↓	TOC, NH_3, metals, Hg	TestAmerica
5014	↓	SVOCs, PCBs	TestAmerica
5015	↓	Total sulfides	TestAmerica
	↓	~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 05
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1741 / 7-1-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1747 / 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5032	BH2-05-S	Grain size	TestAmerica
5033	↓	Total solids, TVS	TestAmerica
5034	↓	TOC, NH_3, metals, Hg	TestAmerica
5035	↓	SVOCs, PCBs	TestAmerica
5036	↓	Total sulfides	TestAmerica
	↓	~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 04
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1754 | 7-1-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1800 | 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5027	BH2-04-S	Grain size	TestAmerica
5028	↓	Total solids, TVS	TestAmerica
5029		TOC, NH_3, metals, Hg	TestAmerica
5030		SVOCs, PCBs	TestAmerica
5031	↓	Total sulfides	TestAmerica
~~———~~	~~———~~	~~Dioxins/Furans~~	~~TestAmerica~~
5221	BH2-04-D	Grain size	"
5222	↓	Total solids, TVS	"
5223		TOC, NH_3, metals, Hg	"
5224		SVOCs, PCBs	"
5225	↓	Total sulfides	"
5232	BH2-04-T	Grain size	"
5233	↓	Total solids, TVS	"
5234		TOC, ammonia	"
5235	↓	Total sulfides	"

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2-10
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1812 | 7-1-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1819 | 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5060	BH2-10-S	Grain size	TestAmerica
5061	↓	Total solids, TVS	TestAmerica
5062		TOC, NH_3, metals, Hg	TestAmerica
5063		SVOCs, PCBs	TestAmerica
5064		Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: C. C. Thurlow

Sample Container Logbook

Client: Ecology	**Location ID:** BH2-11
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1824 | 7-1-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1830 | 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5065	BH2-11-S	Grain size	TestAmerica
5066	↓	Total solids, TVS	TestAmerica
5067		TOC, NH_3, metals, Hg	TestAmerica
5068		SVOCs, PCBs	TestAmerica
5069		Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 13
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1841 / 7-1-19
Crew: JN, SS, ER, A	**Time/Date Processed:** 1846 / 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5075	BH2-13-S	Grain size	TestAmerica
5076	↓	Total solids, TVS	TestAmerica
5077		TOC, NH_3, metals, Hg	TestAmerica
5078		SVOCs, PCBs	TestAmerica
5079		Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 15
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1854 / 7-1-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1859 / 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5085	BH2-15-S	Grain size	TestAmerica
5086	↓	Total solids, TVS	TestAmerica
5087	↓	TOC, NH_3, metals, Hg	TestAmerica
5088	↓	SVOCs, PCBs	TestAmerica
5089	↓	Total sulfides	TestAmerica
	↓	~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: C. J. Andrew

Sample Container Logbook

Client: Ecology	**Location ID:** BH2-12
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 10:23 / 7-2-19
Crew: JN, SS ~~ER, A, SSS~~	**Time/Date Processed:** 10:28 / 7-2-19
Comments: wood plank substrate w/ pockets of sediment 47.59631 N 122.51454 W	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5070	~~BH12~~ BH2-12-S	Grain size	TestAmerica
5071		Total solids, TVS	TestAmerica
5072		TOC, NH_3, metals, Hg	TestAmerica
5073		SVOCs, PCBs	TestAmerica
5074		Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: [signature]

Client: Ecology	**Location ID:** BH2- 40
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1205 / 7-2-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1210 / 7-2-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5216	BH2-40-S	Grain size	TestAmerica
5217	↓	Total solids, TVS	TestAmerica
5218	↓	TOC, NH_3, metals, Hg	TestAmerica
5219	↓	SVOCs, PCBs	TestAmerica
5220	↓	Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 39
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1218 / 7-2-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1225 / 7-2-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5210	BH2-39-S	Grain size	TestAmerica
5211	↓	Total solids, TVS	TestAmerica
5212		TOC, NH_3, metals, Hg	TestAmerica
5213		SVOCs, PCBs	TestAmerica
5214		Total sulfides	TestAmerica
5215		Dioxins/Furans	TestAmerica

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 38
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1230 / 7-2-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1234 / 7-2-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5205	BH2-38-S	Grain size	TestAmerica
5206	↓	Total solids, TVS	TestAmerica
5207	↓	TOC, NH_3, metals, Hg	TestAmerica
5208	↓	SVOCs, PCBs	TestAmerica
5209	↓	Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica.~~

Notes:

NewFields

Completed by: C. J. Mills

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 37
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1242 / 7-2-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1247 / 7-2-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5199	BH2-37-S	Grain size	TestAmerica
5200	↓	Total solids, TVS	TestAmerica
5201		TOC, NH_3, metals, Hg	TestAmerica
5202		SVOCs, PCBs	TestAmerica
5203		Total sulfides	TestAmerica
5204		Dioxins/Furans	TestAmerica

Notes:

NewFields

Completed by: L. C. Mueller

Sample Container Logbook

Client: Ecology	**Location ID:** BH2-36
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1259/7-2-19 ~~7-2-19~~ 7-2-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1259/7-2-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5194	BH2-36-S	Grain size	TestAmerica
5195		Total solids, TVS	TestAmerica
5196		TOC, NH_3, metals, Hg	TestAmerica
5197		SVOCs, PCBs	TestAmerica
5198		Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2-35
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1308 / 7-2-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1316 / 7-2-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5189	BH2-35-S	Grain size	TestAmerica
5190	↓	Total solids, TVS	TestAmerica
5191		TOC, NH_3, metals, Hg	TestAmerica
5192		SVOCs, PCBs	TestAmerica
5193		Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2-~~2~~A
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1322/7-2-19
Crew: JN, SS, ER, A	**Time/Date Processed:** 1329/7-2-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5184	BH2-3A-S	Grain size	TestAmerica
5185		Total solids, TVS	TestAmerica
5186		TOC, NH_3, metals, Hg	TestAmerica
5187		SVOCs, PCBs	TestAmerica
5188		Total sulfides	TestAmerica
~~———~~	~~———~~	~~Dioxins/Furans~~	~~TestAmerica~~
5269		Total sulfides	"
5270		Total Sulfides	"
5265		SVOCs, PCBs	"
5266		SVOCs, PCBs	"
5267		TOC, NH_3, metals, Hg	"
5268	↓	TOC, NH_3, metals, Hg	"

Notes:

NewFields

Completed by: L. C. Musto

Sample Container Logbook

Client: Ecology	Location ID: BH2- 33
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1341 / 7-2-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1346 / 7-2-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5179	BH2-33-S	Grain size	TestAmerica
5180	↓	Total solids, TVS	TestAmerica
5181	↓	TOC, NH_3, metals, Hg	TestAmerica
5182	↓	SVOCs, PCBs	TestAmerica
5183	↓	Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 32
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1357 / 7-2-19
Crew: JN, SS, ~~EP~~, A	**Time/Date Processed:** 1403 / 7-2-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5174	BH2-32-S	Grain size	TestAmerica
5175	↓	Total solids, TVS	TestAmerica
5176	↓	TOC, NH_3, metals, Hg	TestAmerica
5177	↓	SVOCs, PCBs	TestAmerica
5178	↓	Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 31
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1415 / 7-2-19
Crew: JN, SS, GP, A	**Time/Date Processed:** 1420 / 7-2-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5168	BH2-31-S	Grain size	TestAmerica
5169	↓	Total solids, TVS	TestAmerica
5170		TOC, NH_3, metals, Hg	TestAmerica
5171		SVOCs, PCBs	TestAmerica
5172		Total sulfides	TestAmerica
5173		Dioxins/Furans	TestAmerica

Notes:

NewFields

Completed by: [signature]

Client: Ecology	**Location ID:** BH2-30
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1429 / 7-2-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1433 / 7-2-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5163	BH2-30-S	Grain size	TestAmerica
5164	↓	Total solids, TVS	TestAmerica
5165	↓	TOC, NH_3, metals, Hg	TestAmerica
5166	↓	SVOCs, PCBs	TestAmerica
5167	↓	Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 29
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1441 / 7-2-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1446 / 7-2-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5158	BH2-29-S	Grain size	TestAmerica
5159	↓	Total solids, TVS	TestAmerica
5160	↓	TOC, NH_3, metals, Hg	TestAmerica
5161	↓	SVOCs, PCBs	TestAmerica
5162	↓	Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: J. J. Arnold

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 26
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1456 / 7-2-19
Crew: JN, SS, ED, A	**Time/Date Processed:** 1501 / 7-2-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
~~A~~ 5143	BH2-26-S	Grain size	TestAmerica
5144	↓	Total solids, TVS	TestAmerica
5145		TOC, NH_3, metals, Hg	TestAmerica
5146		SVOCs, PCBs	TestAmerica
5147		Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 25
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1511 | 7-2-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1516 | 7-2-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5138	BH2-25-S	Grain size	TestAmerica
5139	↓	Total solids, TVS	TestAmerica
5140	↓	TOC, NH_3, metals, Hg	TestAmerica
5141	↓	SVOCs, PCBs	TestAmerica
5142	↓	Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~
5226	BH2-25-D	Grain size	"
5227	↓	Total solids, TVS	"
5228	↓	TOC, NH_3, metals, Hg	"
5229	↓	SVOCs, PCBs	"
5230	↓	Total sulfides	"
5237	BH2-25-T	Grain size	"
5238	↓	Total solids, TVS	"
5239	↓	TOC, NH_3	"
5240	↓	Total sulfides	"

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 24
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1525 | 7-2-19
Crew: JN, SS, EP, A	**Time/Date Processed:** 1537 | 7-2-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5133	BH2-24-S	Grain size	TestAmerica
5134	↓	Total solids, TVS	TestAmerica
5135	↓	TOC, NH_3, metals, Hg	TestAmerica
5136	↓	SVOCs, PCBs	TestAmerica
5137	↓	Total sulfides	TestAmerica
		~~Dioxins/Furans~~	~~TestAmerica~~

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2-16
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1543 / 7-2-19
Crew: JN, SS, ER, A	**Time/Date Processed:** 1549 / 7-2-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5090	BH2-16-S	Grain size	TestAmerica
5091	↓	Total solids, TVS	TestAmerica
5092	↓	TOC, NH_3, metals, Hg	TestAmerica
5093	↓	SVOCs, PCBs	TestAmerica
5094	↓	Total sulfides	TestAmerica
~~———~~	~~———~~	~~Dioxins/Furans~~	~~TestAmerica~~
5095	↓	Dioxins / Furans	Test America

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2-15
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1915 / 7-1-19
Crew: JN, SS, ED, A	**Time/Date Processed:** 1915 / 7-1-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5241	BH2-15-ER	PCBs	TestAmerica
5242	↓	PCBs	TestAmerica
5243		Hg	TestAmerica
5244		Metals	TestAmerica
5245		SVOCs	TestAmerica
5246		SVOCs	TestAmerica

Notes:

NewFields

Completed by:_____

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 16
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1602 | 7-2-19
Crew: JN, SS	**Time/Date Processed:** 1602 | 7-2-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5247	BH2-16-ER	PCBs	TestAmerica
5248	↓	PCBs	TestAmerica
5249	↓	Hg	TestAmerica
5250	↓	Metals	TestAmerica
5251	↓	SVOCs	TestAmerica
5252	↓	SVOCs	TestAmerica

Notes:

NewFields

Completed by: [signature]

Sample Container Logbook

Client: Ecology	**Location ID:** BH2- 16
Project: 2019 Blakely Harbor Sediment Investigation	**Time/Date Collected:** 1602 | 7-2-19
Crew: JN, SS	**Time/Date Processed:** 1602 | 7-2-19
Comments:	

Sample Container Tag Number	Sample ID	Analysis	Laboratory
5253	BH2-16-RB	PCBs	TestAmerica
5254	↓	PCBs	TestAmerica
5255		Hg	TestAmerica
5256		Metals	TestAmerica
5257		SVOCs	TestAmerica
5258		SVOCs	TestAmerica

Notes:

NewFields

Completed by: [signature]