QUALITY ASSURANCE PROJECT PLAN ADDENDUM 1

Enhanced Natural Recovery/Activated Carbon Pilot Study
Lower Duwamish Waterway
Ex Situ SPME Sampling at the Subtidal Plot

*L*ower *D*uwamish *W*aterway *G*roup

Port of Seattle / City of Seattle / King County / The Boeing Company

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FINAL

Prepared for:

The U.S. Environmental Protection Agency
Region 10
Seattle, Washington

The Washington State Department of Ecology
Northwest Regional Office
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QUALITY ASSURANCE PROJECT PLAN ADDENDUM 1
EX SITU SPME SAMPLING AT THE SUBTIDAL PLOT

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TABLE OF CONTENTS

Page

FIGURES

ATTACHMENTS

ABBREVIATIONS AND ACRONYMS

°C	degrees Celsius
cm	centimeter
DQO	data quality objective
Ecology	Washington State Department of Ecology
ENR	enhanced natural recovery
ENR+AC	enhanced natural recovery amended with activated carbon
EPA	U.S. Environmental Protection Agency
m	meter
m^2	square meter
mg	milligram
mL	milliliter
mS	milliSiemens
PCB	polychlorinated biphenyl
ppt	parts per thousand
PTFE	polytetrafluoroethylene
QA	quality assurance
QA/QC	quality assurance/quality control
QAPP	quality assurance project plan
RPD	redox potential discontinuity
SPME	solid-phase microextraction

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1.0 PROJECT DESCRIPTION AND OBJECTIVES

This QAPP Addendum serves as an addendum to the *Quality Assurance Project Plan, Enhanced Natural Recovery/Activated Carbon Pilot Study, Lower Duwamish Waterway* (Pilot Study QAPP, AMEC et al., 2016) and details the modified sampling methods for the subtidal plot. This addendum supersedes the previous Baseline Ex Situ QAPP addendum approved by EPA and Ecology in November 2016. Consistent with AMEC et al. (2016), polychlorinated biphenyl (PCB) porewater measurements in surface sediment for the baseline monitoring event was attempted via an *in situ* application of passive sampling using solid-phase microextraction (SPME). Recovery rates of the *in situ* SPME samplers deployed at the subtidal plot (River Mile 1.2) in August 2016 during the baseline monitoring event were insufficient to meet the monitoring objectives specified in the Pilot Study QAPP due to sample loss. After discussion with EPA and Ecology, *ex situ* SPME fiber exposure in the laboratory was identified as the preferred alternative method to measure PCB concentrations in sediment porewater at the subtidal plot. *Ex situ* passive sampling involves exposing a passive sampler (i.e., SPME) to a discrete sediment, soil, or water sample, usually in the laboratory. *Ex situ* passive sampling relies on the exact same chemical process as *in situ* sampling (absorption of PCBs from sediment porewater by the sampler), and is a robust and widely-accepted approach for passive sampling (Ghosh et al., 2014; Greenberg et al., 2014; SERPD/ESTP and USEPA, 2016). The *ex situ* approach will be used for the baseline and all subsequent monitoring events at the subtidal plot.

The modification of the SPME approach also affects other aspects of the monitoring approach originally identified for the subtidal plot, namely the collection of surface sediment, the collection of porewater samples for salinity measurement, and the application of SPMEs at the sediment-water interface. In summary, the main modifications to AMEC et al. 2016 consist of the following for the subtidal plot:

1. PCB porewater measurements in surface sediment for all monitoring events will be performed via *ex situ* application of SPMEs, rather than *in situ* application of SPMEs.

2. PCB porewater measurements at the sediment-water interface, originally planned for the monitoring events in Years 2 and 3, will not be performed at the subtidal plot.

3. Bulk samples of surface sediment will be collected via a grab sampler deployed from the sampling vessel, rather than samples collected by SCUBA divers.

4. Five porewater samples collected during the initial *in situ* deployment at the subtidal plot showed that conductivities were relatively uniform and ranged from 25.5 to 28.5 parts per thousand (ppt), or 40 to 44 milliSiemens (mS)[1]. The condition at the subtidal plot was clearly representative of marine waters within the sediments at that time. If cores are collected at mid- to low tide on a falling tide, confirmatory sampling of porewater (n=5) using a simple refractometer or conductivity meter will be conducted.

The remainder of this QAPP Addendum provides details of the *ex situ* SPME approach and collection of surface sediment samples for chemical analysis. Except where noted in this document, methods and quality assurance (QA) procedures are consistent with the Pilot Study QAPP and the reader is referred to the appropriate section of the Pilot Study QAPP.

1.1 PLOT LOCATION

Ex situ SPME sampling will be conducted with sediment collected from the ENR and ENR+AC subplots of the subtidal plot for the Pilot Study.

1.2 DATA QUALITY OBJECTIVES

The data quality objectives (DQOs) for the *ex situ* SPME sampling at the subtidal plot are the same as the *in situ* SPME sampling detailed in the Pilot Study QAPP Section 1.2. Specifically, the *ex situ* SPME approach addresses DQO 3: the potential changes in PCB bioavailability in ENR+AC compared to ENR alone.

1.3 PROJECT SCHEDULE

*S*ampling will follow the project schedule as described in the Pilot Study QAPP Section 1.3, consisting of a baseline monitoring event followed by monitoring events 1, 2, and 3 years post-placement.

[1] For comparison, bottom waters in Puget Sound range from 29.5 to 31 ppt and shallow waters in Puget Sound range from 27.5 to 30.5 at 4- to 10-m depths (Dawson and Tilley, 1972). Bottom waters in the central section of the Lower Duwamish Waterway have variable salinities as a function of river discharge and tidal stage; typical conditions at the South Park Bridge during ebb tides are 10 to 22 ppt with a rapid return to 25 to 27 ppt with returning tides (McKeon et al., in review).

1.4 QAPP ADDENDUM ORGANIZATION

This QAPP Addendum is organized into the following sections:

- Section 1 – Project Description and Objectives
- Section 2 – Project Organization and Responsibility
- Section 3 – Data Generation and Acquisition
- Section 4 – References

QAPP components detailing sample handling and custody documentation, assessment and oversight, reporting and record retention are consistent with the Pilot Study QAPP and are not repeated in this document.

2.0 PROJECT ORGANIZATION AND RESPONSIBILITY

The field sampling and *ex situ* SPME laboratory exposure will be conducted as a component of the Pilot Study.

Dr. Jason Conder of Geosyntec Consultants will serve as the passive sampling lead. During the *ex situ* deployment and retrieval of the fibers, he will work closely with the laboratory in which the fibers are exposed and processed.

Dr. Conder can be reached as follows:

Jason Conder, PhD
Geosyntec Consultants
2100 Main Street, Suite 150
Huntington Beach, CA 92648
Tel: 714.465.1226
JConder@Geosyntec.com

Mr. Robert Gilmour of Amec Foster Wheeler will serve as the field coordinator, responsible for the collection and receipt of sediment samples, coordination with laboratory for the space in which the SPME samplers will be exposed and extracted, transport of SPME extracts to the analytical laboratory, and compositing, processing, and shipment of sediment samples to the analytical laboratory.

Mr. Gilmour can be reached as follows:

Robert Gilmour, MS
Amec Foster Wheeler
3500 188th Street Southwest, Suite 601
Lynnwood, WA 98037
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rob.gilmour@amecfw.com

Quality assurance, field work and sample collection, and analytical roles, as well as the analytical testing laboratory, certification, and procedures for documentation remain as identified in the Pilot Study QAPP.

3.0 DATA GENERATION AND ACQUISITION

This section describes the collection and handling of sediment, as well as exposure and extraction of the SPME samplers for analysis. Unless specifically noted below, the sampling events, sampling design, station location, sampling and analysis methods, laboratory experimental design, QA/QC, and data custody and management remain as identified in the Pilot Study QAPP.

3.1 SEQUENCING OF TASKS

In the baseline event, sediment sample collection at the subtidal plot will occur after the collection of the *in situ* SPME samplers at the intertidal and scour plots and prior to placement of ENR and ENR+AC layers. In the future monitoring events that include measurements of PCB congeners in porewater, the collection of sediment for *ex situ* SPME sampling will take place during the same field sampling mobilization as other efforts in the intertidal and scour plots.

3.2 SAMPLING METHODS

This section describes the sampling methods utilized in the monitoring program. Sampling methods not specifically detailed below follow the same procedures as in the Pilot Study QAPP.

3.2.1 Collection of Sediment for the *Ex Situ* SPME Exposures and Sediment Chemistry

In the baseline sampling event, one sample of surface sediment for *ex situ* SPME testing will be obtained for each of the 60 sample locations at the subtidal plot, as shown in Figure 3.1. As described in the Pilot Study QAPP, 36 samples will be collected from the subtidal plot during future

monitoring events unless the statistical power evaluation from the Baseline Event indicates additional samples are needed.

Surface sediments will be collected using a 0.2 square meter (m^2) pneumatically-powered stainless-steel grab deployed from the sampling vessel. The expected total grab penetration depth is 15- to 20-centimeters (cm) at the center of the grab. The grab sampler will be deployed from a hydraulic winch on the RSS Vessel, Carolyn Dow. Once the grab sampler is recovered onto the sampling vessel, the surface of the sediment will be evaluated to ensure that the surface sediment is intact and undisturbed. General sediment characteristics will be recorded on a datasheet. The overlying water will be removed using a siphon prior to sediment collection.

A relatively undisturbed sediment core for *ex situ* SPME testing will be collected from the grab sample using a 2-inch (outside diameter) polycarbonate (e.g., Lexan™) plastic core tube.[2] The tubing will be inserted by hand into the sediment slightly off center of the grab. After insertion of the core tube to 12-cm depth, the top of the core tube will be sealed with an expanding plug. The expanding plug will be inserted until it is resting on the sediment surface. The sediment along one side of the core tube will be excavated, allowing access to the bottom of the core tube. The sediment within the core tube will be held in place using a gloved hand (with or without a stainless-steel retaining plate) and the core will be removed from the grab. It may be necessary to invert the core to prevent loss of material from the open (bottom end) of the core tube, depending on the cohesiveness of the material and retention in the core tube. Disturbance of the core is not expected during inversion due to the presence of the expanding plug. The outside of the core tube will be cleaned of excess sediment. A thin disk of polytetrafluoroethylene (e.g., PTFE, Teflon™) plastic will be placed over the end of the tube and a flexible vinyl cap installed over the end of the tube. The cap will be taped on the outside of the core tube using a flexible tape to ensure a waterproof seal. The core tube will be righted (if it has been inverted), the expanding plug removed, and the top end of the tube will be capped with a flexible vinyl cap and sealed with flexible tape. The core will be examined to determine if there is an apparent redox potential discontinuity (RPD) layer which would be characterized by a distinct dark sulfide-stained layer overlain by lighter colored gray sediment. If an apparent RPD layer is present, the distance from the RPD layer to the sediment surface will be measured and recorded.

[2] The core tube composition matches that core tube that will be used for the laboratory tissue study planned for Year 3, per the Draft Laboratory Bioaccumulation Study Supplemental QAPP. "Relatively undisturbed" means that the samples will be handled with minimal disturbance, to the extent practicable—some disturbance is inevitable and cannot be avoided completely.

Each labelled core tube will be maintained upright and in cool conditions (4 degrees Celsius [°C]) during transit to the EcoAnalysts laboratory, where the samples will be held, unagitated, in the dark at 4°C until the beginning of the SPME exposure period. The sample will be labelled with the sample ID as provided in Attachment A.

Sediment for chemistry will be collected from the same grab sample as the SPME core tube using a pre-cleaned 3-inch-diameter aluminum core tube. The core tube will be inserted into the sediment surface to depth of 10 cm following the insertion of the SPME core into the sediment before the SPME core is extracted. The tube will be removed from the sediment after the removal of the SPME core by excavating sediment along one side of the tube, allowing access to the bottom of the core tube. The sediment within the core tube will be held in place using a gloved hand or stainless-steel retaining plate when the core tube is removed from the grab sampler. After removal of the core tube from the grab sampler, the sediment will be transferred to a 1-liter amber wide-mouthed jar. Sediment samples will held in a cooler at 4°C ± 2°C until they are transferred to the Ramboll Environ laboratory for compositing according to the methods described in the Pilot Study QAPP (Section 3.2.4.3).

From an undisturbed portion of the grab, a porewater syringe sampler will be inserted into the sediment in the grab and suction will be applied until approximately 3 to 5 mL of porewater has been collected. The salinity or conductivity of the porewater will be measured by expressing porewater from the sampler into a refractometer or conductivity meter. Five porewater samples will be collected from the 60 locations that are sampled. The porewater samples will be collected from grabs that are collected on an ebbing tide, one-half to 2 hours before low tide.

Form: The field technician will complete an *Ex Situ* Sample Collection at the Subtidal Plot Form (QAPP Attachment A) for each core collected and SPME exposed. Photographs will be recorded on the photograph log form and cross-referenced to the surface sediment sample collection form.

3.2.2 *Ex Situ* SPME Porewater Sampling

Dissolved PCB congeners in sediment porewater will be measured with the use of SPME fibers using a method consistent with the *in situ* SPME approach outlined in the Pilot Study QAPP.

3.2.3 *Ex Situ* SPME Sampler Exposure

In the laboratory, subtidal plot SPME cores will be removed from storage (storage time will be minimized, but will be no more than 30 days from time of field collection) and the top cap will be removed before insertion of a SPME fiber sampler into the sediment. The SPME fiber samplers

will be prepared in advance, using the same methods described in Section 3.2.5.1 of the Pilot Study QAPP. SPME fiber samples will be prepared with performance reference compounds.

A SPME sampler will be exposed in each sediment core by pushing a 10-cm SPME fiber housed in steel mesh (attached to a perforated steel support bar, as was used for the *in situ* SPME devices) into the center of the sediment of each core sample container, such that the SPME fiber extends from 0 to 10 cm below the surface of the sediment. Ultrapure water (approximately 50 to 200 milliliters [mL]) containing sodium azide (microbial inhibitor, 100 milligram [mg] per liter [L]) will be added to the sample core to reduce headspace above the sediment, maintain moist conditions, and prevent excess microbial activity. The core will be recapped, placed in a support to maintain stability of the core, shielded from ambient light, and stored in the laboratory at room temperature for 6 weeks.

3.2.4 *Ex Situ* SPME Sampler Extraction

After 6 weeks of exposure and prior to removal of the SPME samplers, the cores will be inspected to determine if an apparent RPD layer is present. If the layer is present, the distance from the RPD layer and the sediment surface will be measured and recorded.

After the cores have been inspected for an apparent RPD layer, the SPME samplers will be removed from the core tubes. Under clean conditions in a laboratory, the SPME samplers will be processed one composite sample at a time, with the six sample containers per composite being processed sequentially. The SPME fiber will be removed from the sampler envelopes, cleaned, weighed, composited, and extracted in the same manner as detailed in the Pilot Study QAPP for the *in situ* SPMEs.

During the baseline event, two additional composite SPME porewater samples will be collected from subtidal plot SPME cores at each subplot (D and E locations, Figure 3.1). These samples will be processed and the SPME extracts will be stored at 4°C. The samples may be analyzed pending an analysis and review of the statistical power indicated by the analysis of the three baseline composite SPME porewater samples, as described in the Pilot Study QAPP. Additionally, three trip blanks representing exposure during the subtidal plot sampling procedures will be collected and analyzed for the baseline sampling event.

Forms: A SPME Processing Form (Attachment B) will be used to record information on SPME processing as completed for the *in situ* SPME processing at the intertidal and scour plots.

3.2.5 *Ex Situ* SPME Trip Blanks and Laboratory Control Blank

For the Baseline sampling, a second, additional set of three SPME fiber samples will be provided and used as trip blank samples for the subtidal plot. The trip blanks will be provided with the batch of SPME samplers that will be used in the *ex situ* SPME measurements. In the laboratory when the SPMEs are inserted into the sample containers, the trip blanks will be removed from their opaque sealable bag and exposed to laboratory air for approximately 5 minutes. After exposure, the envelope will be resealed in the opaque bag and stored at 4°C ± 2°C. Within 2 weeks, the trip blank fibers will be processed and extracted (six SPME samplers comprise one composite trip blank sample). In future sampling events, only one set of three trip blanks will be exposed, processed, extracted, and analyzed since all SPMEs for the *in situ* deployments at the scour and intertidal plots and the *ex situ* deployment in subtidal sediment are planned to originate in the same SPME production batch.

One laboratory control blank will be analyzed. The laboratory control blank will consist of six SPME fiber exposed separately in cores filled with an adequate volume of ultrapure water plus sodium azide (100 mg/L) to completely submerge the SPMEs and minimize headspace. The cores will be capped, placed in a support to maintain stability of the cores, shielded from ambient light, and stored with the sediment-exposed, primary samplers in the laboratory at room temperature for 6 weeks. The six control blank SPMEs will be composited into a single control sample. The laboratory control blanks exposure and extraction will occur at the same time as the sediment exposed primary samplers.

4.0 REFERENCES

AMEC et al. (Amec Foster Wheeler; Dalton, Olmsted & Fuglevand, Inc.; Ramboll Environ; Floyd|Snider; and Geosyntec Consultants). 2016. Quality Assurance Project Plan, Enhanced Natural Recovery/Activated Carbon Pilot Study, Lower Duwamish Waterway. Lower Duwamish Waterway Group, Seattle, WA. February 22.

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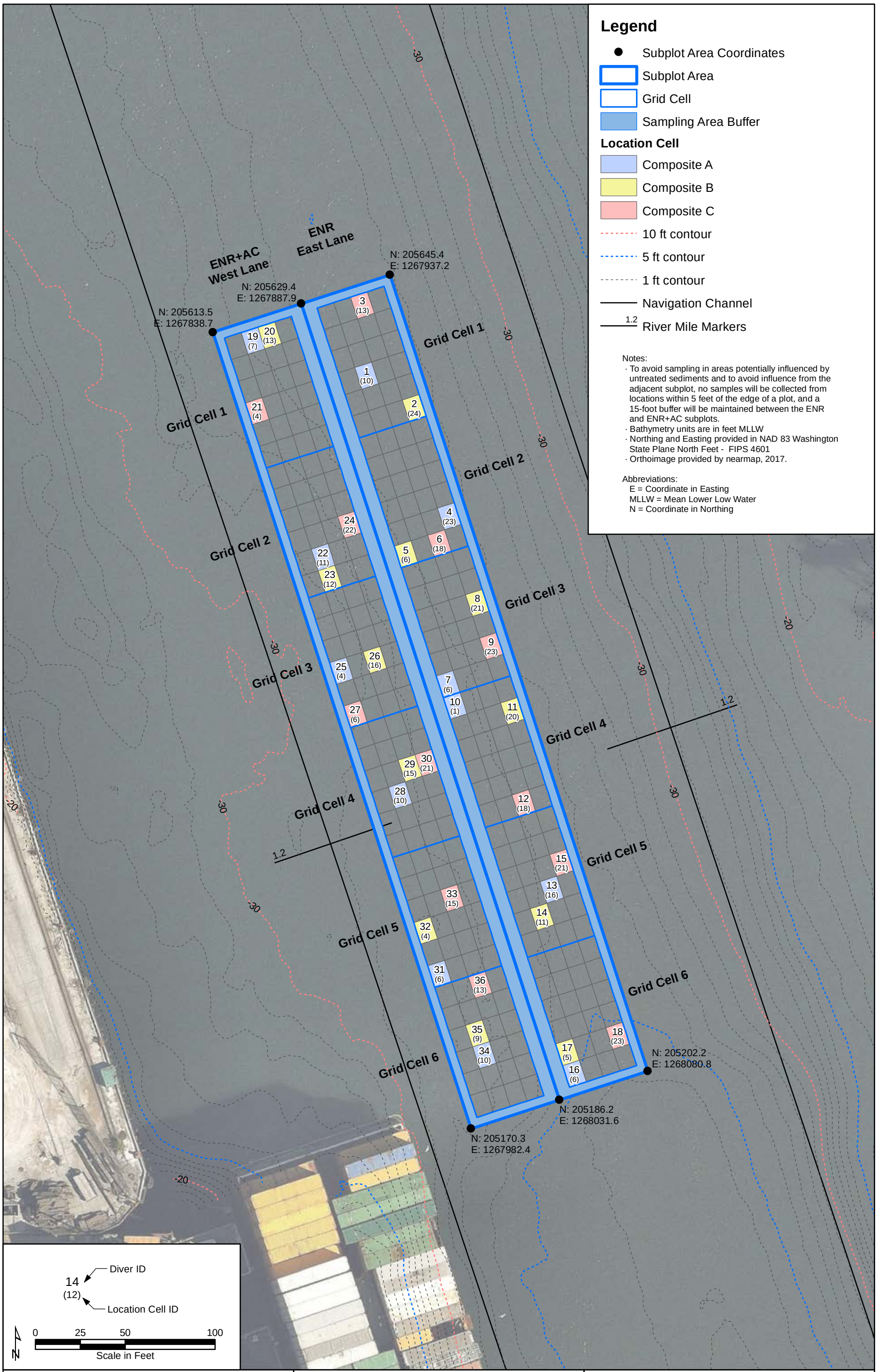
SERDP/ESTCP and USEPA. 2016. Laboratory, Field, and Analytical Procedures for Using Passive Sampling in the Evaluation of Contaminated Sediments: User's Manual. EPA/600/XX-15/071. Office of Research and Development, Washington, DC.

FIGURES



ENR/AC Pilot Study
Ex Situ QAPP Addendum
Lower Duwamish Waterway

Figure 3.1a
Baseline Subtidal Plot
Sample Composite Grid

I:\GIS\Projects\AMEC-KC-ENR\MXD\DiverMaps\Year1\Figure 3.1a Baseline Subtidal Plot with Sample Composite Grid.mxd
2/13/2017

Legend

- Subplot Area Coordinates
- Subplot Area
- Grid Cell
- Sampling Area Buffer

Location Cell

- Composite A
- Composite B
- Composite C
- Composite D (SPME Only, Archive)
- Composite E (SPME Only, Archive)
- No Composite Sample
- 10 ft contour
- 5 ft contour
- 1 ft contour
- Navigation Channel
- 1.2 River Mile Markers

Notes:
- Locations may change based on the previous year's final sampling locations.
- To avoid sampling in areas potentially influenced by untreated sediments and to avoid influence from the adjacent subplot, no samples will be collected from locations within 5 feet of the edge of a plot, and a 15-foot buffer will be maintained between the ENR and ENR+AC subplots.
- Bathymetry units are in feet MLLW
- Northing and Easting provided in NAD 83 Washington State Plane North Feet - FIPS 4601
- Orthoimage provided by nearmap, 2017.

Abbreviations:
E = Coordinate in Easting
MLLW = Mean Lower Low Water
N = Coordinate in Northing

ENR+AC West Lane
ENR East Lane
N: 205645.4 E: 1267937.2
N: 205629.4 E: 1267887.9
N: 205613.5 E: 1267838.7
N: 205202.2 E: 1268080.8
N: 205186.2 E: 1268031.6
N: 205170.3 E: 1267982.4
Grid Cell 1
Grid Cell 2
Grid Cell 3
Grid Cell 4
Grid Cell 5
Grid Cell 6
1.2
-30
-20

Diver ID
14
(12)
Location Cell ID

0 25 50 100
Scale in Feet

Lower Duwamish Waterway Group
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ENR/AC Pilot Study
Ex Situ QAPP Addendum
Lower Duwamish Waterway

Figure 3.1b
Year 1 Subtidal Plot
Sample Composite Grid

I:\GIS\Projects\AMEC-KC-ENR\MXD\DiverMaps\Year1\Figure 3.1b Year 1 Subtidal Plot with Sample Composite Grid.mxd
2/13/2017

Legend

- Subplot Area Coordinates
- Subplot Area
- Grid Cell
- Sampling Area Buffer

Location Cell

- Composite A
- Composite B
- Composite C
- Composite D (SPME Only, Archive)
- Composite E (SPME Only, Archive)
- No Composite Sample
- 10 ft contour
- 5 ft contour
- 1 ft contour
- Navigation Channel
- 1.2 River Mile Markers

Notes:
- Locations may change based on the previous year's final sampling locations.
- To avoid sampling in areas potentially influenced by untreated sediments and to avoid influence from the adjacent subplot, no samples will be collected from locations within 5 feet of the edge of a plot, and a 15-foot buffer will be maintained between the ENR and ENR+AC subplots.
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N: 205186.2 E: 1268031.6
N: 205170.3 E: 1267982.4
Grid Cell 1
Grid Cell 2
Grid Cell 3
Grid Cell 4
Grid Cell 5
Grid Cell 6
1.2
-20
-30

Diver ID
14
(12)
Location Cell ID

0 25 50 100
Scale in Feet

Lower Duwamish Waterway Group
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Ex Situ QAPP Addendum
Lower Duwamish Waterway

Figure 3.1c
Year 2 Subtidal Plot
Sample Composite Grid

I:\GIS\Projects\AMEC-KC-ENR\MXD\DiverMaps\Year1\Figure 3.1c Year 2 Subtidal Plot with Sample Composite Grid.mxd
2/13/2017

Legend

- Subplot Area Coordinates
- Subplot Area
- Grid Cell
- Sampling Area Buffer

Location Cell

- Composite A
- Composite B
- Composite C
- Composite D (SPME Only, Archive)
- Composite E (SPME Only, Archive)
- No Composite Sample
- 10 ft contour
- 5 ft contour
- 1 ft contour
- Navigation Channel
- 1.2 River Mile Markers

Notes:

- Locations may change based on the previous year's final sampling locations.
- To avoid sampling in areas potentially influenced by untreated sediments and to avoid influence from the adjacent subplot, no samples will be collected from locations within 5 feet of the edge of a plot, and a 15-foot buffer will be maintained between the ENR and ENR+AC subplots.
- Bathymetry units are in feet MLLW
- Northing and Easting provided in NAD 83 Washington State Plane North Feet - FIPS 4601
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ENR+AC West Lane
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N: 205186.2 E: 1268031.6
N: 205170.3 E: 1267982.4
Grid Cell 1
Grid Cell 2
Grid Cell 3
Grid Cell 4
Grid Cell 5
Grid Cell 6
1.2
-20
-30

Diver ID
14 (12)
Location Cell ID
0 25 50 100
Scale in Feet

Lower Duwamish Waterway Group
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ENR/AC Pilot Study
Ex Situ QAPP Addendum
Lower Duwamish Waterway

Figure 3.1d
Year 3 Subtidal Plot
Sample Composite Grid

\\Gimli\enterprise\GIS\Projects\AMEC-KC-ENR\MXD\DiverMaps\Year1\Figure 3.1d Year 3 Subtidal Plot with Sample Composite Grid.mxd
2/13/2017

ATTACHMENTS

ATTACHMENT A

Sample Collection at the Subtidal Plot and
Ex Situ SPME Exposure Forms

Attachment A-1
Baseline Ex Situ Sample Collection at the Subtidal Plot Form
Lower Duwamish Waterway Group

Plot	Subplot	Grid Cell	Location Cell	Composite	Diver Station ID	Discrete Sediment Sample for Sediment Chemistry	Sediment Collection			Discrete ex situ SPME/Sediment Sample ID	Expsoure	
							Date	Time	Notes		SPME Exposure Start Date	SPME Exposure Start Time
Subtidal	ENR+AC	1	23	A	31	LDW-BA-SU-ENR+AC-1-A-CORE				LDW-BA-SU-ENR+AC-1-A-S010-SPME		
Subtidal	ENR+AC	2	10	A	36	LDW-BA-SU-ENR+AC-2-A-CORE				LDW-BA-SU-ENR+AC-2-A-S010-SPME		
Subtidal	ENR+AC	3	10	A	41	LDW-BA-SU-ENR+AC-3-A-CORE				LDW-BA-SU-ENR+AC-3-A-S010-SPME		
Subtidal	ENR+AC	4	6	A	46	LDW-BA-SU-ENR+AC-4-A-CORE				LDW-BA-SU-ENR+AC-4-A-S010-SPME		
Subtidal	ENR+AC	5	18	A	51	LDW-BA-SU-ENR+AC-5-A-CORE				LDW-BA-SU-ENR+AC-5-A-S010-SPME		
Subtidal	ENR+AC	6	18	A	56	LDW-BA-SU-ENR+AC-6-A-CORE				LDW-BA-SU-ENR+AC-6-A-S010-SPME		
Subtidal	ENR+AC	1	16	B	32	LDW-BA-SU-ENR+AC-1-B-CORE				LDW-BA-SU-ENR+AC-1-B-S010-SPME		
Subtidal	ENR+AC	2	23	B	37	LDW-BA-SU-ENR+AC-2-B-CORE				LDW-BA-SU-ENR+AC-2-B-S010-SPME		
Subtidal	ENR+AC	3	7	B	42	LDW-BA-SU-ENR+AC-3-B-CORE				LDW-BA-SU-ENR+AC-3-B-S010-SPME		
Subtidal	ENR+AC	4	18	B	47	LDW-BA-SU-ENR+AC-4-B-CORE				LDW-BA-SU-ENR+AC-4-B-S010-SPME		
Subtidal	ENR+AC	5	11	B	52	LDW-BA-SU-ENR+AC-5-B-CORE				LDW-BA-SU-ENR+AC-5-B-S010-SPME		
Subtidal	ENR+AC	6	1	B	57	LDW-BA-SU-ENR+AC-6-B-CORE				LDW-BA-SU-ENR+AC-6-B-S010-SPME		
Subtidal	ENR+AC	1	6	C	33	LDW-BA-SU-ENR+AC-1-C-CORE				LDW-BA-SU-ENR+AC-1-C-S010-SPME		
Subtidal	ENR+AC	2	2	C	38	LDW-BA-SU-ENR+AC-2-C-CORE				LDW-BA-SU-ENR+AC-2-C-S010-SPME		
Subtidal	ENR+AC	3	24	C	43	LDW-BA-SU-ENR+AC-3-C-CORE				LDW-BA-SU-ENR+AC-3-C-S010-SPME		
Subtidal	ENR+AC	4	3	C	48	LDW-BA-SU-ENR+AC-4-C-CORE				LDW-BA-SU-ENR+AC-4-C-S010-SPME		
Subtidal	ENR+AC	5	12	C	53	LDW-BA-SU-ENR+AC-5-C-CORE				LDW-BA-SU-ENR+AC-5-C-S010-SPME		
Subtidal	ENR+AC	6	22	C	58	LDW-BA-SU-ENR+AC-6-C-CORE				LDW-BA-SU-ENR+AC-6-C-S010-SPME		
Subtidal	ENR+AC	1	21	D	34	LDW-BA-SU-ENR+AC-1-D-CORE				LDW-BA-SU-ENR+AC-1-D-S010-SPME		
Subtidal	ENR+AC	2	13	D	39	LDW-BA-SU-ENR+AC-2-D-CORE				LDW-BA-SU-ENR+AC-2-D-S010-SPME		
Subtidal	ENR+AC	3	11	D	44	LDW-BA-SU-ENR+AC-3-D-CORE				LDW-BA-SU-ENR+AC-3-D-S010-SPME		
Subtidal	ENR+AC	4	5	D	49	LDW-BA-SU-ENR+AC-4-D-CORE				LDW-BA-SU-ENR+AC-4-D-S010-SPME		
Subtidal	ENR+AC	5	19	D	54	LDW-BA-SU-ENR+AC-5-D-CORE				LDW-BA-SU-ENR+AC-5-D-S010-SPME		
Subtidal	ENR+AC	6	19	D	59	LDW-BA-SU-ENR+AC-6-D-CORE				LDW-BA-SU-ENR+AC-6-D-S010-SPME		
Subtidal	ENR+AC	1	20	E	35	LDW-BA-SU-ENR+AC-1-E-CORE				LDW-BA-SU-ENR+AC-1-E-S010-SPME		
Subtidal	ENR+AC	2	18	E	40	LDW-BA-SU-ENR+AC-2-E-CORE				LDW-BA-SU-ENR+AC-2-E-S010-SPME		

Attachment A-1
Baseline Ex Situ Sample Collection at the Subtidal Plot Form
Lower Duwamish Waterway Group

Plot	Subplot	Grid Cell	Location Cell	Composite	Diver Station ID	Discrete Sediment Sample for Sediment Chemistry	Sediment Collection			Discrete ex situ SPME/Sediment Sample ID	Expsoure	
							Date	Time	Notes		SPME Exposure Start Date	SPME Exposure Start Time
Subtidal	ENR+AC	3	20	E	45	LDW-BA-SU-ENR+AC-3-E-CORE				LDW-BA-SU-ENR+AC-3-E-S010-SPME		
Subtidal	ENR+AC	4	22	E	50	LDW-BA-SU-ENR+AC-4-E-CORE				LDW-BA-SU-ENR+AC-4-E-S010-SPME		
Subtidal	ENR+AC	5	9	E	55	LDW-BA-SU-ENR+AC-5-E-CORE				LDW-BA-SU-ENR+AC-5-E-S010-SPME		
Subtidal	ENR+AC	6	8	E	60	LDW-BA-SU-ENR+AC-6-E-CORE				LDW-BA-SU-ENR+AC-6-E-S010-SPME		
Subtidal	ENR	1	19	A	1	LDW-BA-SU-ENR-1-A-CORE				LDW-BA-SU-ENR-1-A-S010-SPME		
Subtidal	ENR	2	13	A	6	LDW-BA-SU-ENR-2-A-CORE				LDW-BA-SU-ENR-2-A-S010-SPME		
Subtidal	ENR	3	19	A	11	LDW-BA-SU-ENR-3-A-CORE				LDW-BA-SU-ENR-3-A-S010-SPME		
Subtidal	ENR	4	19	A	16	LDW-BA-SU-ENR-4-A-CORE				LDW-BA-SU-ENR-4-A-S010-SPME		
Subtidal	ENR	5	9	A	21	LDW-BA-SU-ENR-5-A-CORE				LDW-BA-SU-ENR-5-A-S010-SPME		
Subtidal	ENR	6	12	A	26	LDW-BA-SU-ENR-6-A-CORE				LDW-BA-SU-ENR-6-A-S010-SPME		
Subtidal	ENR	1	6	B	2	LDW-BA-SU-ENR-1-B-CORE				LDW-BA-SU-ENR-1-B-S010-SPME		
Subtidal	ENR	2	11	B	7	LDW-BA-SU-ENR-2-B-CORE				LDW-BA-SU-ENR-2-B-S010-SPME		
Subtidal	ENR	3	9	B	12	LDW-BA-SU-ENR-3-B-CORE				LDW-BA-SU-ENR-3-B-S010-SPME		
Subtidal	ENR	4	4	B	17	LDW-BA-SU-ENR-4-B-CORE				LDW-BA-SU-ENR-4-B-S010-SPME		
Subtidal	ENR	5	14	B	22	LDW-BA-SU-ENR-5-B-CORE				LDW-BA-SU-ENR-5-B-S010-SPME		
Subtidal	ENR	6	8	B	27	LDW-BA-SU-ENR-6-B-CORE				LDW-BA-SU-ENR-6-B-S010-SPME		
Subtidal	ENR	1	12	C	3	LDW-BA-SU-ENR-1-C-CORE				LDW-BA-SU-ENR-1-C-S010-SPME		
Subtidal	ENR	2	9	C	8	LDW-BA-SU-ENR-2-C-CORE				LDW-BA-SU-ENR-2-C-S010-SPME		
Subtidal	ENR	3	7	C	13	LDW-BA-SU-ENR-3-C-CORE				LDW-BA-SU-ENR-3-C-S010-SPME		
Subtidal	ENR	4	3	C	18	LDW-BA-SU-ENR-4-C-CORE				LDW-BA-SU-ENR-4-C-S010-SPME		
Subtidal	ENR	5	2	C	23	LDW-BA-SU-ENR-5-C-CORE				LDW-BA-SU-ENR-5-C-S010-SPME		
Subtidal	ENR	6	11	C	28	LDW-BA-SU-ENR-6-C-CORE				LDW-BA-SU-ENR-6-C-S010-SPME		
Subtidal	ENR	1	18	D	4	LDW-BA-SU-ENR-1-D-CORE				LDW-BA-SU-ENR-1-D-S010-SPME		
Subtidal	ENR	2	16	D	9	LDW-BA-SU-ENR-2-D-CORE				LDW-BA-SU-ENR-2-D-S010-SPME		
Subtidal	ENR	3	12	D	14	LDW-BA-SU-ENR-3-D-CORE				LDW-BA-SU-ENR-3-D-S010-SPME		
Subtidal	ENR	4	11	D	19	LDW-BA-SU-ENR-4-D-CORE				LDW-BA-SU-ENR-4-D-S010-SPME		

Attachment A-1
Baseline Ex Situ Sample Collection at the Subtidal Plot Form
Lower Duwamish Waterway Group

Plot	Subplot	Grid Cell	Location Cell	Composite	Diver Station ID	Discrete Sediment Sample for Sediment Chemistry	Sediment Collection			Discrete ex situ SPME/Sediment Sample ID	Expsoure	
							Date	Time	Notes		SPME Exposure Start Date	SPME Exposure Start Time
Subtidal	ENR	5	24	D	24	LDW-BA-SU-ENR-5-D-CORE				LDW-BA-SU-ENR-5-D-S010-SPME		
Subtidal	ENR	6	3	D	29	LDW-BA-SU-ENR-6-D-CORE				LDW-BA-SU-ENR-6-D-S010-SPME		
Subtidal	ENR	1	11	E	5	LDW-BA-SU-ENR-1-E-CORE				LDW-BA-SU-ENR-1-E-S010-SPME		
Subtidal	ENR	2	10	E	10	LDW-BA-SU-ENR-2-E-CORE				LDW-BA-SU-ENR-2-E-S010-SPME		
Subtidal	ENR	3	13	E	15	LDW-BA-SU-ENR-3-E-CORE				LDW-BA-SU-ENR-3-E-S010-SPME		
Subtidal	ENR	4	13	E	20	LDW-BA-SU-ENR-4-E-CORE				LDW-BA-SU-ENR-4-E-S010-SPME		
Subtidal	ENR	5	12	E	25	LDW-BA-SU-ENR-5-E-CORE				LDW-BA-SU-ENR-5-E-S010-SPME		
Subtidal	ENR	6	9	E	30	LDW-BA-SU-ENR-6-E-CORE				LDW-BA-SU-ENR-6-E-S010-SPME		
Subtidal	NA	1	NA	NA	NA	NA				LDW-BA-SU-1-S010-SPME-TB-EXSITU1		
Subtidal	NA	2	NA	NA	NA	NA				LDW-BA-SU-2-S010-SPME-TB-EXSITU1		
Subtidal	NA	3	NA	NA	NA	NA				LDW-BA-SU-3-S010-SPME-TB-EXSITU1		
Subtidal	NA	4	NA	NA	NA	NA				LDW-BA-SU-4-S010-SPME-TB-EXSITU1		
Subtidal	NA	5	NA	NA	NA	NA				LDW-BA-SU-5-S010-SPME-TB-EXSITU1		
Subtidal	NA	6	NA	NA	NA	NA				LDW-BA-SU-6-S010-SPME-TB-EXSITU1		
Subtidal	NA	1	NA	NA	NA	NA				LDW-BA-SU-1-S010-SPME-TB-EXSITU2		
Subtidal	NA	2	NA	NA	NA	NA				LDW-BA-SU-2-S010-SPME-TB-EXSITU2		
Subtidal	NA	3	NA	NA	NA	NA				LDW-BA-SU-3-S010-SPME-TB-EXSITU2		
Subtidal	NA	4	NA	NA	NA	NA				LDW-BA-SU-4-S010-SPME-TB-EXSITU2		
Subtidal	NA	5	NA	NA	NA	NA				LDW-BA-SU-5-S010-SPME-TB-EXSITU2		
Subtidal	NA	6	NA	NA	NA	NA				LDW-BA-SU-6-S010-SPME-TB-EXSITU2		
Subtidal	NA	1	NA	NA	NA	NA				LDW-BA-SU-1-S010-SPME-TB-EXSITU3		
Subtidal	NA	2	NA	NA	NA	NA				LDW-BA-SU-2-S010-SPME-TB-EXSITU3		
Subtidal	NA	3	NA	NA	NA	NA				LDW-BA-SU-3-S010-SPME-TB-EXSITU3		
Subtidal	NA	4	NA	NA	NA	NA				LDW-BA-SU-4-S010-SPME-TB-EXSITU3		
Subtidal	NA	5	NA	NA	NA	NA				LDW-BA-SU-5-S010-SPME-TB-EXSITU3		
Subtidal	NA	6	NA	NA	NA	NA				LDW-BA-SU-6-S010-SPME-TB-EXSITU3		

Attachment A-2
Year 1 Ex Situ Sample Collection at the Subtidal Plot Form
Lower Duwamish Waterway Group

Plot	Subplot	Grid Cell	Location Cell	Composite	Diver Station ID	Discrete Sediment Sample for Sediment Chemistry	Sediment Collection			Discrete ex situ SPME/Sediment Sample ID	Expsoure	
							Date	Time	Notes		SPME Exposure Start Date	SPME Exposure Start Time
Subtidal	ENR+AC	1	15	A	31	LDW-Y1-SU-ENR+AC-1-A-CORE				LDW-Y1-SU-ENR+AC-1-A-S010-SPME		
Subtidal	ENR+AC	2	24	A	36	LDW-Y1-SU-ENR+AC-2-A-CORE				LDW-Y1-SU-ENR+AC-2-A-S010-SPME		
Subtidal	ENR+AC	3	22	A	41	LDW-Y1-SU-ENR+AC-3-A-CORE				LDW-Y1-SU-ENR+AC-3-A-S010-SPME		
Subtidal	ENR+AC	4	3	A	46	LDW-Y1-SU-ENR+AC-4-A-CORE				LDW-Y1-SU-ENR+AC-4-A-S010-SPME		
Subtidal	ENR+AC	5	3	A	51	LDW-Y1-SU-ENR+AC-5-A-CORE				LDW-Y1-SU-ENR+AC-5-A-S010-SPME		
Subtidal	ENR+AC	6	1	A	56	LDW-Y1-SU-ENR+AC-6-A-CORE				LDW-Y1-SU-ENR+AC-6-A-S010-SPME		
Subtidal	ENR+AC	1	17	B	32	LDW-Y1-SU-ENR+AC-1-B-CORE				LDW-Y1-SU-ENR+AC-1-B-S010-SPME		
Subtidal	ENR+AC	2	5	B	37	LDW-Y1-SU-ENR+AC-2-B-CORE				LDW-Y1-SU-ENR+AC-2-B-S010-SPME		
Subtidal	ENR+AC	3	13	B	42	LDW-Y1-SU-ENR+AC-3-B-CORE				LDW-Y1-SU-ENR+AC-3-B-S010-SPME		
Subtidal	ENR+AC	4	23	B	47	LDW-Y1-SU-ENR+AC-4-B-CORE				LDW-Y1-SU-ENR+AC-4-B-S010-SPME		
Subtidal	ENR+AC	5	12	B	52	LDW-Y1-SU-ENR+AC-5-B-CORE				LDW-Y1-SU-ENR+AC-5-B-S010-SPME		
Subtidal	ENR+AC	6	11	B	57	LDW-Y1-SU-ENR+AC-6-B-CORE				LDW-Y1-SU-ENR+AC-6-B-S010-SPME		
Subtidal	ENR+AC	1	8	C	33	LDW-Y1-SU-ENR+AC-1-C-CORE				LDW-Y1-SU-ENR+AC-1-C-S010-SPME		
Subtidal	ENR+AC	2	3	C	38	LDW-Y1-SU-ENR+AC-2-C-CORE				LDW-Y1-SU-ENR+AC-2-C-S010-SPME		
Subtidal	ENR+AC	3	15	C	43	LDW-Y1-SU-ENR+AC-3-C-CORE				LDW-Y1-SU-ENR+AC-3-C-S010-SPME		
Subtidal	ENR+AC	4	6	C	48	LDW-Y1-SU-ENR+AC-4-C-CORE				LDW-Y1-SU-ENR+AC-4-C-S010-SPME		
Subtidal	ENR+AC	5	22	C	53	LDW-Y1-SU-ENR+AC-5-C-CORE				LDW-Y1-SU-ENR+AC-5-C-S010-SPME		
Subtidal	ENR+AC	6	5	C	58	LDW-Y1-SU-ENR+AC-6-C-CORE				LDW-Y1-SU-ENR+AC-6-C-S010-SPME		
Subtidal	ENR+AC	1	21	D	34	LDW-Y1-SU-ENR+AC-1-D-CORE				LDW-Y1-SU-ENR+AC-1-D-S010-SPME		
Subtidal	ENR+AC	2	1	D	39	LDW-Y1-SU-ENR+AC-2-D-CORE				LDW-Y1-SU-ENR+AC-2-D-S010-SPME		
Subtidal	ENR+AC	3	7	D	44	LDW-Y1-SU-ENR+AC-3-D-CORE				LDW-Y1-SU-ENR+AC-3-D-S010-SPME		
Subtidal	ENR+AC	4	2	D	49	LDW-Y1-SU-ENR+AC-4-D-CORE				LDW-Y1-SU-ENR+AC-4-D-S010-SPME		
Subtidal	ENR+AC	5	18	D	54	LDW-Y1-SU-ENR+AC-5-D-CORE				LDW-Y1-SU-ENR+AC-5-D-S010-SPME		
Subtidal	ENR+AC	6	2	D	59	LDW-Y1-SU-ENR+AC-6-D-CORE				LDW-Y1-SU-ENR+AC-6-D-S010-SPME		
Subtidal	ENR+AC	1	14	E	35	LDW-Y1-SU-ENR+AC-1-E-CORE				LDW-Y1-SU-ENR+AC-1-E-S010-SPME		
Subtidal	ENR+AC	2	17	E	40	LDW-Y1-SU-ENR+AC-2-E-CORE				LDW-Y1-SU-ENR+AC-2-E-S010-SPME		

Attachment A-2
Year 1 Ex Situ Sample Collection at the Subtidal Plot Form
Lower Duwamish Waterway Group

Plot	Subplot	Grid Cell	Location Cell	Composite	Diver Station ID	Discrete Sediment Sample for Sediment Chemistry	Sediment Collection			Discrete ex situ SPME/Sediment Sample ID	Expsoure	
							Date	Time	Notes		SPME Exposure Start Date	SPME Exposure Start Time
Subtidal	ENR+AC	3	24	E	45	LDW-Y1-SU-ENR+AC-3-E-CORE				LDW-Y1-SU-ENR+AC-3-E-S010-SPME		
Subtidal	ENR+AC	4	7	E	50	LDW-Y1-SU-ENR+AC-4-E-CORE				LDW-Y1-SU-ENR+AC-4-E-S010-SPME		
Subtidal	ENR+AC	5	23	E	55	LDW-Y1-SU-ENR+AC-5-E-CORE				LDW-Y1-SU-ENR+AC-5-E-S010-SPME		
Subtidal	ENR+AC	6	23	E	60	LDW-Y1-SU-ENR+AC-6-E-CORE				LDW-Y1-SU-ENR+AC-6-E-S010-SPME		
Subtidal	ENR	1	11	A	1	LDW-Y1-SU-ENR-1-A-CORE				LDW-Y1-SU-ENR-1-A-S010-SPME		
Subtidal	ENR	2	15	A	6	LDW-Y1-SU-ENR-2-A-CORE				LDW-Y1-SU-ENR-2-A-S010-SPME		
Subtidal	ENR	3	5	A	11	LDW-Y1-SU-ENR-3-A-CORE				LDW-Y1-SU-ENR-3-A-S010-SPME		
Subtidal	ENR	4	5	A	16	LDW-Y1-SU-ENR-4-A-CORE				LDW-Y1-SU-ENR-4-A-S010-SPME		
Subtidal	ENR	5	4	A	21	LDW-Y1-SU-ENR-5-A-CORE				LDW-Y1-SU-ENR-5-A-S010-SPME		
Subtidal	ENR	6	17	A	26	LDW-Y1-SU-ENR-6-A-CORE				LDW-Y1-SU-ENR-6-A-S010-SPME		
Subtidal	ENR	1	8	B	2	LDW-Y1-SU-ENR-1-B-CORE				LDW-Y1-SU-ENR-1-B-S010-SPME		
Subtidal	ENR	2	8	B	7	LDW-Y1-SU-ENR-2-B-CORE				LDW-Y1-SU-ENR-2-B-S010-SPME		
Subtidal	ENR	3	13	B	12	LDW-Y1-SU-ENR-3-B-CORE				LDW-Y1-SU-ENR-3-B-S010-SPME		
Subtidal	ENR	4	17	B	17	LDW-Y1-SU-ENR-4-B-CORE				LDW-Y1-SU-ENR-4-B-S010-SPME		
Subtidal	ENR	5	18	B	22	LDW-Y1-SU-ENR-5-B-CORE				LDW-Y1-SU-ENR-5-B-S010-SPME		
Subtidal	ENR	6	1	B	27	LDW-Y1-SU-ENR-6-B-CORE				LDW-Y1-SU-ENR-6-B-S010-SPME		
Subtidal	ENR	1	16	C	3	LDW-Y1-SU-ENR-1-C-CORE				LDW-Y1-SU-ENR-1-C-S010-SPME		
Subtidal	ENR	2	4	C	8	LDW-Y1-SU-ENR-2-C-CORE				LDW-Y1-SU-ENR-2-C-S010-SPME		
Subtidal	ENR	3	17	C	13	LDW-Y1-SU-ENR-3-C-CORE				LDW-Y1-SU-ENR-3-C-S010-SPME		
Subtidal	ENR	4	7	C	18	LDW-Y1-SU-ENR-4-C-CORE				LDW-Y1-SU-ENR-4-C-S010-SPME		
Subtidal	ENR	5	5	C	23	LDW-Y1-SU-ENR-5-C-CORE				LDW-Y1-SU-ENR-5-C-S010-SPME		
Subtidal	ENR	6	20	C	28	LDW-Y1-SU-ENR-6-C-CORE				LDW-Y1-SU-ENR-6-C-S010-SPME		
Subtidal	ENR	1	14	D	4	LDW-Y1-SU-ENR-1-D-CORE				LDW-Y1-SU-ENR-1-D-S010-SPME		
Subtidal	ENR	2	9	D	9	LDW-Y1-SU-ENR-2-D-CORE				LDW-Y1-SU-ENR-2-D-S010-SPME		
Subtidal	ENR	3	3	D	14	LDW-Y1-SU-ENR-3-D-CORE				LDW-Y1-SU-ENR-3-D-S010-SPME		
Subtidal	ENR	4	4	D	19	LDW-Y1-SU-ENR-4-D-CORE				LDW-Y1-SU-ENR-4-D-S010-SPME		

Attachment A-2
Year 1 Ex Situ Sample Collection at the Subtidal Plot Form
Lower Duwamish Waterway Group

Plot	Subplot	Grid Cell	Location Cell	Composite	Diver Station ID	Discrete Sediment Sample for Sediment Chemistry	Sediment Collection			Discrete ex situ SPME/Sediment Sample ID	Expsoure	
							Date	Time	Notes		SPME Exposure Start Date	SPME Exposure Start Time
Subtidal	ENR	5	6	D	24	LDW-Y1-SU-ENR-5-D-CORE				LDW-Y1-SU-ENR-5-D-S010-SPME		
Subtidal	ENR	6	11	D	29	LDW-Y1-SU-ENR-6-D-CORE				LDW-Y1-SU-ENR-6-D-S010-SPME		
Subtidal	ENR	1	7	E	5	LDW-Y1-SU-ENR-1-E-CORE				LDW-Y1-SU-ENR-1-E-S010-SPME		
Subtidal	ENR	2	16	E	10	LDW-Y1-SU-ENR-2-E-CORE				LDW-Y1-SU-ENR-2-E-S010-SPME		
Subtidal	ENR	3	20	E	15	LDW-Y1-SU-ENR-3-E-CORE				LDW-Y1-SU-ENR-3-E-S010-SPME		
Subtidal	ENR	4	2	E	20	LDW-Y1-SU-ENR-4-E-CORE				LDW-Y1-SU-ENR-4-E-S010-SPME		
Subtidal	ENR	5	9	E	25	LDW-Y1-SU-ENR-5-E-CORE				LDW-Y1-SU-ENR-5-E-S010-SPME		
Subtidal	ENR	6	7	E	30	LDW-Y1-SU-ENR-6-E-CORE				LDW-Y1-SU-ENR-6-E-S010-SPME		
Subtidal	NA	1	NA	NA	NA	NA				-------		
Subtidal	NA	2	NA	NA	NA	NA				-------		
Subtidal	NA	3	NA	NA	NA	NA				-------		
Subtidal	NA	4	NA	NA	NA	NA				-------		
Subtidal	NA	5	NA	NA	NA	NA				-------		
Subtidal	NA	6	NA	NA	NA	NA				-------		
Subtidal	NA	1	NA	NA	NA	NA				-------		
Subtidal	NA	2	NA	NA	NA	NA				-------		
Subtidal	NA	3	NA	NA	NA	NA				-------		
Subtidal	NA	4	NA	NA	NA	NA				-------		
Subtidal	NA	5	NA	NA	NA	NA				-------		
Subtidal	NA	6	NA	NA	NA	NA				-------		
Subtidal	NA	1	NA	NA	NA	NA				LDW-Y1-SU--1--S010-SPME		
Subtidal	NA	2	NA	NA	NA	NA				LDW-Y1-SU--2--S010-SPME		
Subtidal	NA	3	NA	NA	NA	NA				LDW-Y1-SU--3--S010-SPME		
Subtidal	NA	4	NA	NA	NA	NA				LDW-Y1-SU--4--S010-SPME		
Subtidal	NA	5	NA	NA	NA	NA				LDW-Y1-SU--5--S010-SPME		
Subtidal	NA	6	NA	NA	NA	NA				LDW-Y1-SU--6--S010-SPME		

Attachment A-3
Year 2 Ex Situ Sample Collection at the Subtidal Plot Form
Lower Duwamish Waterway Group

Plot	Subplot	Grid Cell	Location Cell	Composite	Diver Station ID	Discrete Sediment Sample for Sediment Chemistry	Sediment Collection			Discrete ex situ SPME/Sediment Sample ID	Expsoure	
							Date	Time	Notes		SPME Exposure Start Date	SPME Exposure Start Time
Subtidal	ENR+AC	1	12	A	31	LDW-Y2-SU-ENR+AC-1-A-CORE				LDW-Y2-SU-ENR+AC-1-A-S010-SPME		
Subtidal	ENR+AC	2	10	A	36	LDW-Y2-SU-ENR+AC-2-A-CORE				LDW-Y2-SU-ENR+AC-2-A-S010-SPME		
Subtidal	ENR+AC	3	10	A	41	LDW-Y2-SU-ENR+AC-3-A-CORE				LDW-Y2-SU-ENR+AC-3-A-S010-SPME		
Subtidal	ENR+AC	4	20	A	46	LDW-Y2-SU-ENR+AC-4-A-CORE				LDW-Y2-SU-ENR+AC-4-A-S010-SPME		
Subtidal	ENR+AC	5	2	A	51	LDW-Y2-SU-ENR+AC-5-A-CORE				LDW-Y2-SU-ENR+AC-5-A-S010-SPME		
Subtidal	ENR+AC	6	14	A	56	LDW-Y2-SU-ENR+AC-6-A-CORE				LDW-Y2-SU-ENR+AC-6-A-S010-SPME		
Subtidal	ENR+AC	1	19	B	32	LDW-Y2-SU-ENR+AC-1-B-CORE				LDW-Y2-SU-ENR+AC-1-B-S010-SPME		
Subtidal	ENR+AC	2	8	B	37	LDW-Y2-SU-ENR+AC-2-B-CORE				LDW-Y2-SU-ENR+AC-2-B-S010-SPME		
Subtidal	ENR+AC	3	18	B	42	LDW-Y2-SU-ENR+AC-3-B-CORE				LDW-Y2-SU-ENR+AC-3-B-S010-SPME		
Subtidal	ENR+AC	4	9	B	47	LDW-Y2-SU-ENR+AC-4-B-CORE				LDW-Y2-SU-ENR+AC-4-B-S010-SPME		
Subtidal	ENR+AC	5	9	B	52	LDW-Y2-SU-ENR+AC-5-B-CORE				LDW-Y2-SU-ENR+AC-5-B-S010-SPME		
Subtidal	ENR+AC	6	17	B	57	LDW-Y2-SU-ENR+AC-6-B-CORE				LDW-Y2-SU-ENR+AC-6-B-S010-SPME		
Subtidal	ENR+AC	1	16	C	33	LDW-Y2-SU-ENR+AC-1-C-CORE				LDW-Y2-SU-ENR+AC-1-C-S010-SPME		
Subtidal	ENR+AC	2	6	C	38	LDW-Y2-SU-ENR+AC-2-C-CORE				LDW-Y2-SU-ENR+AC-2-C-S010-SPME		
Subtidal	ENR+AC	3	20	C	43	LDW-Y2-SU-ENR+AC-3-C-CORE				LDW-Y2-SU-ENR+AC-3-C-S010-SPME		
Subtidal	ENR+AC	4	4	C	48	LDW-Y2-SU-ENR+AC-4-C-CORE				LDW-Y2-SU-ENR+AC-4-C-S010-SPME		
Subtidal	ENR+AC	5	7	C	53	LDW-Y2-SU-ENR+AC-5-C-CORE				LDW-Y2-SU-ENR+AC-5-C-S010-SPME		
Subtidal	ENR+AC	6	6	C	58	LDW-Y2-SU-ENR+AC-6-C-CORE				LDW-Y2-SU-ENR+AC-6-C-S010-SPME		
Subtidal	ENR+AC	1	22	D	34	LDW-Y2-SU-ENR+AC-1-D-CORE				LDW-Y2-SU-ENR+AC-1-D-S010-SPME		
Subtidal	ENR+AC	2	4	D	39	LDW-Y2-SU-ENR+AC-2-D-CORE				LDW-Y2-SU-ENR+AC-2-D-S010-SPME		
Subtidal	ENR+AC	3	19	D	44	LDW-Y2-SU-ENR+AC-3-D-CORE				LDW-Y2-SU-ENR+AC-3-D-S010-SPME		
Subtidal	ENR+AC	4	11	D	49	LDW-Y2-SU-ENR+AC-4-D-CORE				LDW-Y2-SU-ENR+AC-4-D-S010-SPME		
Subtidal	ENR+AC	5	11	D	54	LDW-Y2-SU-ENR+AC-5-D-CORE				LDW-Y2-SU-ENR+AC-5-D-S010-SPME		
Subtidal	ENR+AC	6	15	D	59	LDW-Y2-SU-ENR+AC-6-D-CORE				LDW-Y2-SU-ENR+AC-6-D-S010-SPME		
Subtidal	ENR+AC	1	5	E	35	LDW-Y2-SU-ENR+AC-1-E-CORE				LDW-Y2-SU-ENR+AC-1-E-S010-SPME		
Subtidal	ENR+AC	2	19	E	40	LDW-Y2-SU-ENR+AC-2-E-CORE				LDW-Y2-SU-ENR+AC-2-E-S010-SPME		

Attachment A-3
Year 2 Ex Situ Sample Collection at the Subtidal Plot Form
Lower Duwamish Waterway Group

Plot	Subplot	Grid Cell	Location Cell	Composite	Diver Station ID	Discrete Sediment Sample for Sediment Chemistry	Sediment Collection			Discrete ex situ SPME/Sediment Sample ID	Expsoure	
							Date	Time	Notes		SPME Exposure Start Date	SPME Exposure Start Time
Subtidal	ENR+AC	3	1	E	45	LDW-Y2-SU-ENR+AC-3-E-CORE				LDW-Y2-SU-ENR+AC-3-E-S010-SPME		
Subtidal	ENR+AC	4	18	E	50	LDW-Y2-SU-ENR+AC-4-E-CORE				LDW-Y2-SU-ENR+AC-4-E-S010-SPME		
Subtidal	ENR+AC	5	21	E	55	LDW-Y2-SU-ENR+AC-5-E-CORE				LDW-Y2-SU-ENR+AC-5-E-S010-SPME		
Subtidal	ENR+AC	6	4	E	60	LDW-Y2-SU-ENR+AC-6-E-CORE				LDW-Y2-SU-ENR+AC-6-E-S010-SPME		
Subtidal	ENR	1	5	A	1	LDW-Y2-SU-ENR-1-A-CORE				LDW-Y2-SU-ENR-1-A-S010-SPME		
Subtidal	ENR	2	7	A	6	LDW-Y2-SU-ENR-2-A-CORE				LDW-Y2-SU-ENR-2-A-S010-SPME		
Subtidal	ENR	3	9	A	11	LDW-Y2-SU-ENR-3-A-CORE				LDW-Y2-SU-ENR-3-A-S010-SPME		
Subtidal	ENR	4	21	A	16	LDW-Y2-SU-ENR-4-A-CORE				LDW-Y2-SU-ENR-4-A-S010-SPME		
Subtidal	ENR	5	20	A	21	LDW-Y2-SU-ENR-5-A-CORE				LDW-Y2-SU-ENR-5-A-S010-SPME		
Subtidal	ENR	6	16	A	26	LDW-Y2-SU-ENR-6-A-CORE				LDW-Y2-SU-ENR-6-A-S010-SPME		
Subtidal	ENR	1	4	B	2	LDW-Y2-SU-ENR-1-B-CORE				LDW-Y2-SU-ENR-1-B-S010-SPME		
Subtidal	ENR	2	1	B	7	LDW-Y2-SU-ENR-2-B-CORE				LDW-Y2-SU-ENR-2-B-S010-SPME		
Subtidal	ENR	3	15	B	12	LDW-Y2-SU-ENR-3-B-CORE				LDW-Y2-SU-ENR-3-B-S010-SPME		
Subtidal	ENR	4	23	B	17	LDW-Y2-SU-ENR-4-B-CORE				LDW-Y2-SU-ENR-4-B-S010-SPME		
Subtidal	ENR	5	3	B	22	LDW-Y2-SU-ENR-5-B-CORE				LDW-Y2-SU-ENR-5-B-S010-SPME		
Subtidal	ENR	6	4	B	27	LDW-Y2-SU-ENR-6-B-CORE				LDW-Y2-SU-ENR-6-B-S010-SPME		
Subtidal	ENR	1	23	C	3	LDW-Y2-SU-ENR-1-C-CORE				LDW-Y2-SU-ENR-1-C-S010-SPME		
Subtidal	ENR	2	14	C	8	LDW-Y2-SU-ENR-2-C-CORE				LDW-Y2-SU-ENR-2-C-S010-SPME		
Subtidal	ENR	3	4	C	13	LDW-Y2-SU-ENR-3-C-CORE				LDW-Y2-SU-ENR-3-C-S010-SPME		
Subtidal	ENR	4	9	C	18	LDW-Y2-SU-ENR-4-C-CORE				LDW-Y2-SU-ENR-4-C-S010-SPME		
Subtidal	ENR	5	24	C	23	LDW-Y2-SU-ENR-5-C-CORE				LDW-Y2-SU-ENR-5-C-S010-SPME		
Subtidal	ENR	6	14	C	28	LDW-Y2-SU-ENR-6-C-CORE				LDW-Y2-SU-ENR-6-C-S010-SPME		
Subtidal	ENR	1	20	D	4	LDW-Y2-SU-ENR-1-D-CORE				LDW-Y2-SU-ENR-1-D-S010-SPME		
Subtidal	ENR	2	24	D	9	LDW-Y2-SU-ENR-2-D-CORE				LDW-Y2-SU-ENR-2-D-S010-SPME		
Subtidal	ENR	3	2	D	14	LDW-Y2-SU-ENR-3-D-CORE				LDW-Y2-SU-ENR-3-D-S010-SPME		
Subtidal	ENR	4	12	D	19	LDW-Y2-SU-ENR-4-D-CORE				LDW-Y2-SU-ENR-4-D-S010-SPME		

Attachment A-3
Year 2 Ex Situ Sample Collection at the Subtidal Plot Form
Lower Duwamish Waterway Group

Plot	Subplot	Grid Cell	Location Cell	Composite	Diver Station ID	Discrete Sediment Sample for Sediment Chemistry	Sediment Collection			Discrete ex situ SPME/Sediment Sample ID	Expsoure	
							Date	Time	Notes		SPME Exposure Start Date	SPME Exposure Start Time
Subtidal	ENR	5	22	D	24	LDW-Y2-SU-ENR-5-D-CORE				LDW-Y2-SU-ENR-5-D-S010-SPME		
Subtidal	ENR	6	21	D	29	LDW-Y2-SU-ENR-6-D-CORE				LDW-Y2-SU-ENR-6-D-S010-SPME		
Subtidal	ENR	1	12	E	5	LDW-Y2-SU-ENR-1-E-CORE				LDW-Y2-SU-ENR-1-E-S010-SPME		
Subtidal	ENR	2	17	E	10	LDW-Y2-SU-ENR-2-E-CORE				LDW-Y2-SU-ENR-2-E-S010-SPME		
Subtidal	ENR	3	1	E	15	LDW-Y2-SU-ENR-3-E-CORE				LDW-Y2-SU-ENR-3-E-S010-SPME		
Subtidal	ENR	4	3	E	20	LDW-Y2-SU-ENR-4-E-CORE				LDW-Y2-SU-ENR-4-E-S010-SPME		
Subtidal	ENR	5	7	E	25	LDW-Y2-SU-ENR-5-E-CORE				LDW-Y2-SU-ENR-5-E-S010-SPME		
Subtidal	ENR	6	8	E	30	LDW-Y2-SU-ENR-6-E-CORE				LDW-Y2-SU-ENR-6-E-S010-SPME		
Subtidal	NA	1	NA	NA	NA	NA				-------		
Subtidal	NA	2	NA	NA	NA	NA				-------		
Subtidal	NA	3	NA	NA	NA	NA				-------		
Subtidal	NA	4	NA	NA	NA	NA				-------		
Subtidal	NA	5	NA	NA	NA	NA				-------		
Subtidal	NA	6	NA	NA	NA	NA				-------		
Subtidal	NA	1	NA	NA	NA	NA				-------		
Subtidal	NA	2	NA	NA	NA	NA				-------		
Subtidal	NA	3	NA	NA	NA	NA				-------		
Subtidal	NA	4	NA	NA	NA	NA				-------		
Subtidal	NA	5	NA	NA	NA	NA				-------		
Subtidal	NA	6	NA	NA	NA	NA				-------		
Subtidal	NA	1	NA	NA	NA	NA				LDW-Y2-SU--1--S010-SPME		
Subtidal	NA	2	NA	NA	NA	NA				LDW-Y2-SU--2--S010-SPME		
Subtidal	NA	3	NA	NA	NA	NA				LDW-Y2-SU--3--S010-SPME		
Subtidal	NA	4	NA	NA	NA	NA				LDW-Y2-SU--4--S010-SPME		
Subtidal	NA	5	NA	NA	NA	NA				LDW-Y2-SU--5--S010-SPME		
Subtidal	NA	6	NA	NA	NA	NA				LDW-Y2-SU--6--S010-SPME		

Attachment A-4
Year 3 Ex Situ Sample Collection at the Subtidal Plot Form
Lower Duwamish Waterway Group

Plot	Subplot	Grid Cell	Location Cell	Composite	Diver Station ID	Discrete Sediment Sample for Sediment Chemistry	Sediment Collection			Discrete ex situ SPME/Sediment Sample ID	Expsoure	
							Date	Time	Notes		SPME Exposure Start Date	SPME Exposure Start Time
Subtidal	ENR+AC	1	1	A	31	LDW-Y3-SU-ENR+AC-1-A-CORE				LDW-Y3-SU-ENR+AC-1-A-S010-SPME		
Subtidal	ENR+AC	2	18	A	36	LDW-Y3-SU-ENR+AC-2-A-CORE				LDW-Y3-SU-ENR+AC-2-A-S010-SPME		
Subtidal	ENR+AC	3	14	A	41	LDW-Y3-SU-ENR+AC-3-A-CORE				LDW-Y3-SU-ENR+AC-3-A-S010-SPME		
Subtidal	ENR+AC	4	13	A	46	LDW-Y3-SU-ENR+AC-4-A-CORE				LDW-Y3-SU-ENR+AC-4-A-S010-SPME		
Subtidal	ENR+AC	5	8	A	51	LDW-Y3-SU-ENR+AC-5-A-CORE				LDW-Y3-SU-ENR+AC-5-A-S010-SPME		
Subtidal	ENR+AC	6	18	A	56	LDW-Y3-SU-ENR+AC-6-A-CORE				LDW-Y3-SU-ENR+AC-6-A-S010-SPME		
Subtidal	ENR+AC	1	24	B	32	LDW-Y3-SU-ENR+AC-1-B-CORE				LDW-Y3-SU-ENR+AC-1-B-S010-SPME		
Subtidal	ENR+AC	2	20	B	37	LDW-Y3-SU-ENR+AC-2-B-CORE				LDW-Y3-SU-ENR+AC-2-B-S010-SPME		
Subtidal	ENR+AC	3	8	B	42	LDW-Y3-SU-ENR+AC-3-B-CORE				LDW-Y3-SU-ENR+AC-3-B-S010-SPME		
Subtidal	ENR+AC	4	24	B	47	LDW-Y3-SU-ENR+AC-4-B-CORE				LDW-Y3-SU-ENR+AC-4-B-S010-SPME		
Subtidal	ENR+AC	5	13	B	52	LDW-Y3-SU-ENR+AC-5-B-CORE				LDW-Y3-SU-ENR+AC-5-B-S010-SPME		
Subtidal	ENR+AC	6	21	B	57	LDW-Y3-SU-ENR+AC-6-B-CORE				LDW-Y3-SU-ENR+AC-6-B-S010-SPME		
Subtidal	ENR+AC	1	9	C	33	LDW-Y3-SU-ENR+AC-1-C-CORE				LDW-Y3-SU-ENR+AC-1-C-S010-SPME		
Subtidal	ENR+AC	2	9	C	38	LDW-Y3-SU-ENR+AC-2-C-CORE				LDW-Y3-SU-ENR+AC-2-C-S010-SPME		
Subtidal	ENR+AC	3	12	C	43	LDW-Y3-SU-ENR+AC-3-C-CORE				LDW-Y3-SU-ENR+AC-3-C-S010-SPME		
Subtidal	ENR+AC	4	8	C	48	LDW-Y3-SU-ENR+AC-4-C-CORE				LDW-Y3-SU-ENR+AC-4-C-S010-SPME		
Subtidal	ENR+AC	5	17	C	53	LDW-Y3-SU-ENR+AC-5-C-CORE				LDW-Y3-SU-ENR+AC-5-C-S010-SPME		
Subtidal	ENR+AC	6	8	C	58	LDW-Y3-SU-ENR+AC-6-C-CORE				LDW-Y3-SU-ENR+AC-6-C-S010-SPME		
Subtidal	ENR+AC	1	20	D	34	LDW-Y3-SU-ENR+AC-1-D-CORE				LDW-Y3-SU-ENR+AC-1-D-S010-SPME		
Subtidal	ENR+AC	2	2	D	39	LDW-Y3-SU-ENR+AC-2-D-CORE				LDW-Y3-SU-ENR+AC-2-D-S010-SPME		
Subtidal	ENR+AC	3	5	D	44	LDW-Y3-SU-ENR+AC-3-D-CORE				LDW-Y3-SU-ENR+AC-3-D-S010-SPME		
Subtidal	ENR+AC	4	16	D	49	LDW-Y3-SU-ENR+AC-4-D-CORE				LDW-Y3-SU-ENR+AC-4-D-S010-SPME		
Subtidal	ENR+AC	5	1	D	54	LDW-Y3-SU-ENR+AC-5-D-CORE				LDW-Y3-SU-ENR+AC-5-D-S010-SPME		
Subtidal	ENR+AC	6	19	D	59	LDW-Y3-SU-ENR+AC-6-D-CORE				LDW-Y3-SU-ENR+AC-6-D-S010-SPME		
Subtidal	ENR+AC	1	6	E	35	LDW-Y3-SU-ENR+AC-1-E-CORE				LDW-Y3-SU-ENR+AC-1-E-S010-SPME		
Subtidal	ENR+AC	2	13	E	40	LDW-Y3-SU-ENR+AC-2-E-CORE				LDW-Y3-SU-ENR+AC-2-E-S010-SPME		

Attachment A-4
Year 3 Ex Situ Sample Collection at the Subtidal Plot Form
Lower Duwamish Waterway Group

Plot	Subplot	Grid Cell	Location Cell	Composite	Diver Station ID	Discrete Sediment Sample for Sediment Chemistry	Sediment Collection			Discrete ex situ SPME/Sediment Sample ID	Expsoure	
							Date	Time	Notes		SPME Exposure Start Date	SPME Exposure Start Time
Subtidal	ENR+AC	3	9	E	45	LDW-Y3-SU-ENR+AC-3-E-CORE				LDW-Y3-SU-ENR+AC-3-E-S010-SPME		
Subtidal	ENR+AC	4	1	E	50	LDW-Y3-SU-ENR+AC-4-E-CORE				LDW-Y3-SU-ENR+AC-4-E-S010-SPME		
Subtidal	ENR+AC	5	14	E	55	LDW-Y3-SU-ENR+AC-5-E-CORE				LDW-Y3-SU-ENR+AC-5-E-S010-SPME		
Subtidal	ENR+AC	6	24	E	60	LDW-Y3-SU-ENR+AC-6-E-CORE				LDW-Y3-SU-ENR+AC-6-E-S010-SPME		
Subtidal	ENR	1	18	A	1	LDW-Y3-SU-ENR-1-A-CORE				LDW-Y3-SU-ENR-1-A-S010-SPME		
Subtidal	ENR	2	13	A	6	LDW-Y3-SU-ENR-2-A-CORE				LDW-Y3-SU-ENR-2-A-S010-SPME		
Subtidal	ENR	3	12	A	11	LDW-Y3-SU-ENR-3-A-CORE				LDW-Y3-SU-ENR-3-A-S010-SPME		
Subtidal	ENR	4	11	A	16	LDW-Y3-SU-ENR-4-A-CORE				LDW-Y3-SU-ENR-4-A-S010-SPME		
Subtidal	ENR	5	19	A	21	LDW-Y3-SU-ENR-5-A-CORE				LDW-Y3-SU-ENR-5-A-S010-SPME		
Subtidal	ENR	6	2	A	26	LDW-Y3-SU-ENR-6-A-CORE				LDW-Y3-SU-ENR-6-A-S010-SPME		
Subtidal	ENR	1	1	B	2	LDW-Y3-SU-ENR-1-B-CORE				LDW-Y3-SU-ENR-1-B-S010-SPME		
Subtidal	ENR	2	12	B	7	LDW-Y3-SU-ENR-2-B-CORE				LDW-Y3-SU-ENR-2-B-S010-SPME		
Subtidal	ENR	3	24	B	12	LDW-Y3-SU-ENR-3-B-CORE				LDW-Y3-SU-ENR-3-B-S010-SPME		
Subtidal	ENR	4	22	B	17	LDW-Y3-SU-ENR-4-B-CORE				LDW-Y3-SU-ENR-4-B-S010-SPME		
Subtidal	ENR	5	10	B	22	LDW-Y3-SU-ENR-5-B-CORE				LDW-Y3-SU-ENR-5-B-S010-SPME		
Subtidal	ENR	6	22	B	27	LDW-Y3-SU-ENR-6-B-CORE				LDW-Y3-SU-ENR-6-B-S010-SPME		
Subtidal	ENR	1	22	C	3	LDW-Y3-SU-ENR-1-C-CORE				LDW-Y3-SU-ENR-1-C-S010-SPME		
Subtidal	ENR	2	10	C	8	LDW-Y3-SU-ENR-2-C-CORE				LDW-Y3-SU-ENR-2-C-S010-SPME		
Subtidal	ENR	3	18	C	13	LDW-Y3-SU-ENR-3-C-CORE				LDW-Y3-SU-ENR-3-C-S010-SPME		
Subtidal	ENR	4	13	C	18	LDW-Y3-SU-ENR-4-C-CORE				LDW-Y3-SU-ENR-4-C-S010-SPME		
Subtidal	ENR	5	8	C	23	LDW-Y3-SU-ENR-5-C-CORE				LDW-Y3-SU-ENR-5-C-S010-SPME		
Subtidal	ENR	6	19	C	28	LDW-Y3-SU-ENR-6-C-CORE				LDW-Y3-SU-ENR-6-C-S010-SPME		
Subtidal	ENR	1	21	D	4	LDW-Y3-SU-ENR-1-D-CORE				LDW-Y3-SU-ENR-1-D-S010-SPME		
Subtidal	ENR	2	2	D	9	LDW-Y3-SU-ENR-2-D-CORE				LDW-Y3-SU-ENR-2-D-S010-SPME		
Subtidal	ENR	3	16	D	14	LDW-Y3-SU-ENR-3-D-CORE				LDW-Y3-SU-ENR-3-D-S010-SPME		
Subtidal	ENR	4	15	D	19	LDW-Y3-SU-ENR-4-D-CORE				LDW-Y3-SU-ENR-4-D-S010-SPME		

Attachment A-4
Year 3 Ex Situ Sample Collection at the Subtidal Plot Form
Lower Duwamish Waterway Group

Plot	Subplot	Grid Cell	Location Cell	Composite	Diver Station ID	Discrete Sediment Sample for Sediment Chemistry	Sediment Collection			Discrete ex situ SPME/Sediment Sample ID	Expsoure	
							Date	Time	Notes		SPME Exposure Start Date	SPME Exposure Start Time
Subtidal	ENR	5	2	D	24	LDW-Y3-SU-ENR-5-D-CORE				LDW-Y3-SU-ENR-5-D-S010-SPME		
Subtidal	ENR	6	15	D	29	LDW-Y3-SU-ENR-6-D-CORE				LDW-Y3-SU-ENR-6-D-S010-SPME		
Subtidal	ENR	1	9	E	5	LDW-Y3-SU-ENR-1-E-CORE				LDW-Y3-SU-ENR-1-E-S010-SPME		
Subtidal	ENR	2	11	E	10	LDW-Y3-SU-ENR-2-E-CORE				LDW-Y3-SU-ENR-2-E-S010-SPME		
Subtidal	ENR	3	10	E	15	LDW-Y3-SU-ENR-3-E-CORE				LDW-Y3-SU-ENR-3-E-S010-SPME		
Subtidal	ENR	4	10	E	20	LDW-Y3-SU-ENR-4-E-CORE				LDW-Y3-SU-ENR-4-E-S010-SPME		
Subtidal	ENR	5	14	E	25	LDW-Y3-SU-ENR-5-E-CORE				LDW-Y3-SU-ENR-5-E-S010-SPME		
Subtidal	ENR	6	13	E	30	LDW-Y3-SU-ENR-6-E-CORE				LDW-Y3-SU-ENR-6-E-S010-SPME		
Subtidal	NA	1	NA	NA	NA	NA				-------		
Subtidal	NA	2	NA	NA	NA	NA				-------		
Subtidal	NA	3	NA	NA	NA	NA				-------		
Subtidal	NA	4	NA	NA	NA	NA				-------		
Subtidal	NA	5	NA	NA	NA	NA				-------		
Subtidal	NA	6	NA	NA	NA	NA				-------		
Subtidal	NA	1	NA	NA	NA	NA				-------		
Subtidal	NA	2	NA	NA	NA	NA				-------		
Subtidal	NA	3	NA	NA	NA	NA				-------		
Subtidal	NA	4	NA	NA	NA	NA				-------		
Subtidal	NA	5	NA	NA	NA	NA				-------		
Subtidal	NA	6	NA	NA	NA	NA				-------		
Subtidal	NA	1	NA	NA	NA	NA				LDW-Y3-SU--1--S010-SPME		
Subtidal	NA	2	NA	NA	NA	NA				LDW-Y3-SU--2--S010-SPME		
Subtidal	NA	3	NA	NA	NA	NA				LDW-Y3-SU--3--S010-SPME		
Subtidal	NA	4	NA	NA	NA	NA				LDW-Y3-SU--4--S010-SPME		
Subtidal	NA	5	NA	NA	NA	NA				LDW-Y3-SU--5--S010-SPME		
Subtidal	NA	6	NA	NA	NA	NA				LDW-Y3-SU--6--S010-SPME		

ATTACHMENT B

Ex Situ SPME Processing Forms

Attachment B-1
Baseline SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Location Cell	Composite	Diver Stat. ID	Discrete SPME Sample ID	Retrieved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hexane (mL)	Notes
SU	ENR+AC	1	23	A	31	LDW-BA-SU-ENR+AC-1-A-S010-SPME		LDW-BA-SU-ENR+AC-CA-S010					
SU	ENR+AC	2	10	A	36	LDW-BA-SU-ENR+AC-2-A-S010-SPME							
SU	ENR+AC	3	10	A	41	LDW-BA-SU-ENR+AC-3-A-S010-SPME							
SU	ENR+AC	4	6	A	46	LDW-BA-SU-ENR+AC-4-A-S010-SPME							
SU	ENR+AC	5	18	A	51	LDW-BA-SU-ENR+AC-5-A-S010-SPME							
SU	ENR+AC	6	18	A	56	LDW-BA-SU-ENR+AC-6-A-S010-SPME							
SU	ENR+AC	1	16	B	32	LDW-BA-SU-ENR+AC-1-B-S010-SPME		LDW-BA-SU-ENR+AC-CB-S010					
SU	ENR+AC	2	23	B	37	LDW-BA-SU-ENR+AC-2-B-S010-SPME							
SU	ENR+AC	3	7	B	42	LDW-BA-SU-ENR+AC-3-B-S010-SPME							
SU	ENR+AC	4	18	B	47	LDW-BA-SU-ENR+AC-4-B-S010-SPME							
SU	ENR+AC	5	11	B	52	LDW-BA-SU-ENR+AC-5-B-S010-SPME							
SU	ENR+AC	6	1	B	57	LDW-BA-SU-ENR+AC-6-B-S010-SPME							
SU	ENR+AC	1	6	C	33	LDW-BA-SU-ENR+AC-1-C-S010-SPME		LDW-BA-SU-ENR+AC-CC-S010					
SU	ENR+AC	2	2	C	38	LDW-BA-SU-ENR+AC-2-C-S010-SPME							
SU	ENR+AC	3	24	C	43	LDW-BA-SU-ENR+AC-3-C-S010-SPME							
SU	ENR+AC	4	3	C	48	LDW-BA-SU-ENR+AC-4-C-S010-SPME							
SU	ENR+AC	5	12	C	53	LDW-BA-SU-ENR+AC-5-C-S010-SPME							
SU	ENR+AC	6	22	C	58	LDW-BA-SU-ENR+AC-6-C-S010-SPME							

Attachment B-1
Baseline SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Location Cell	Composite	Diver Stat. ID	Discrete SPME Sample ID	Retrieved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hexane (mL)	Notes
SU	ENR+AC	1	21	D	34	LDW-BA-SU-ENR+AC-1-D-S010-SPME		LDW-BA-SU-ENR+AC-CD-S010					
SU	ENR+AC	2	13	D	39	LDW-BA-SU-ENR+AC-2-D-S010-SPME							
SU	ENR+AC	3	11	D	44	LDW-BA-SU-ENR+AC-3-D-S010-SPME							
SU	ENR+AC	4	5	D	49	LDW-BA-SU-ENR+AC-4-D-S010-SPME							
SU	ENR+AC	5	19	D	54	LDW-BA-SU-ENR+AC-5-D-S010-SPME							
SU	ENR+AC	6	19	D	59	LDW-BA-SU-ENR+AC-6-D-S010-SPME							
SU	ENR+AC	1	20	E	35	LDW-BA-SU-ENR+AC-1-E-S010-SPME		LDW-BA-SU-ENR+AC-CE-S010					
SU	ENR+AC	2	18	E	40	LDW-BA-SU-ENR+AC-2-E-S010-SPME							
SU	ENR+AC	3	20	E	45	LDW-BA-SU-ENR+AC-3-E-S010-SPME							
SU	ENR+AC	4	22	E	50	LDW-BA-SU-ENR+AC-4-E-S010-SPME							
SU	ENR+AC	5	9	E	55	LDW-BA-SU-ENR+AC-5-E-S010-SPME							
SU	ENR+AC	6	8	E	60	LDW-BA-SU-ENR+AC-6-E-S010-SPME							
SU	ENR	1	19	A	1	LDW-BA-SU-ENR-1-A-S010-SPME		LDW-BA-SU-ENR-CA-S010					
SU	ENR	2	13	A	6	LDW-BA-SU-ENR-2-A-S010-SPME							
SU	ENR	3	19	A	11	LDW-BA-SU-ENR-3-A-S010-SPME							
SU	ENR	4	19	A	16	LDW-BA-SU-ENR-4-A-S010-SPME							
SU	ENR	5	9	A	21	LDW-BA-SU-ENR-5-A-S010-SPME							
SU	ENR	6	12	A	26	LDW-BA-SU-ENR-6-A-S010-SPME							

Attachment B-1
Baseline SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Location Cell	Composite	Diver Stat. ID	Discrete SPME Sample ID	Retrieved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hexane (mL)	Notes
SU	ENR	1	6	B	2	LDW-BA-SU-ENR-1-B-S010-SPME		LDW-BA-SU-ENR-CB-S010					
SU	ENR	2	11	B	7	LDW-BA-SU-ENR-2-B-S010-SPME							
SU	ENR	3	9	B	12	LDW-BA-SU-ENR-3-B-S010-SPME							
SU	ENR	4	4	B	17	LDW-BA-SU-ENR-4-B-S010-SPME							
SU	ENR	5	14	B	22	LDW-BA-SU-ENR-5-B-S010-SPME							
SU	ENR	6	8	B	27	LDW-BA-SU-ENR-6-B-S010-SPME							
SU	ENR	1	12	C	3	LDW-BA-SU-ENR-1-C-S010-SPME		LDW-BA-SU-ENR-CC-S010					
SU	ENR	2	9	C	8	LDW-BA-SU-ENR-2-C-S010-SPME							
SU	ENR	3	7	C	13	LDW-BA-SU-ENR-3-C-S010-SPME							
SU	ENR	4	3	C	18	LDW-BA-SU-ENR-4-C-S010-SPME							
SU	ENR	5	2	C	23	LDW-BA-SU-ENR-5-C-S010-SPME							
SU	ENR	6	11	C	28	LDW-BA-SU-ENR-6-C-S010-SPME							
SU	ENR	1	18	D	4	LDW-BA-SU-ENR-1-D-S010-SPME		LDW-BA-SU-ENR-CD-S010					
SU	ENR	2	16	D	9	LDW-BA-SU-ENR-2-D-S010-SPME							
SU	ENR	3	12	D	14	LDW-BA-SU-ENR-3-D-S010-SPME							
SU	ENR	4	11	D	19	LDW-BA-SU-ENR-4-D-S010-SPME							
SU	ENR	5	24	D	24	LDW-BA-SU-ENR-5-D-S010-SPME							
SU	ENR	6	3	D	29	LDW-BA-SU-ENR-6-D-S010-SPME							

Attachment B-1
Baseline SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Location Cell	Composite	Diver Stat. ID	Discrete SPME Sample ID	Retrieved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hexane (mL)	Notes
SU	ENR	1	11	E	5	LDW-BA-SU-ENR-1-E-S010-SPME		LDW-BA-SU-ENR-CE-S010					
SU	ENR	2	10	E	10	LDW-BA-SU-ENR-2-E-S010-SPME							
SU	ENR	3	13	E	15	LDW-BA-SU-ENR-3-E-S010-SPME							
SU	ENR	4	13	E	20	LDW-BA-SU-ENR-4-E-S010-SPME							
SU	ENR	5	12	E	25	LDW-BA-SU-ENR-5-E-S010-SPME							
SU	ENR	6	9	E	30	LDW-BA-SU-ENR-6-E-S010-SPME							
SU	NA	1	NA	NA	NA	LDW-BA-SU-1-S010-SPME-TB-EXSITU1		LDW-BA-SU-S010-TB-EXSITU1					
SU	NA	2	NA	NA	NA	LDW-BA-SU-2-S010-SPME-TB-EXSITU1							
SU	NA	3	NA	NA	NA	LDW-BA-SU-3-S010-SPME-TB-EXSITU1							
SU	NA	4	NA	NA	NA	LDW-BA-SU-4-S010-SPME-TB-EXSITU1							
SU	NA	5	NA	NA	NA	LDW-BA-SU-5-S010-SPME-TB-EXSITU1							
SU	NA	6	NA	NA	NA	LDW-BA-SU-6-S010-SPME-TB-EXSITU1							
SU	NA	1	NA	NA	NA	LDW-BA-SU-1-S010-SPME-TB-EXSITU2		LDW-BA-SU-S010-TB-EXSITU2					
SU	NA	2	NA	NA	NA	LDW-BA-SU-2-S010-SPME-TB-EXSITU2							
SU	NA	3	NA	NA	NA	LDW-BA-SU-3-S010-SPME-TB-EXSITU2							
SU	NA	4	NA	NA	NA	LDW-BA-SU-4-S010-SPME-TB-EXSITU2							
SU	NA	5	NA	NA	NA	LDW-BA-SU-5-S010-SPME-TB-EXSITU2							
SU	NA	6	NA	NA	NA	LDW-BA-SU-6-S010-SPME-TB-EXSITU2							

Attachment B-1
Baseline SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Loca-tion Cell	Co mp-osit e	Diver Stat. ID	Discrete SPME Sample ID	Retri-eved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hex-ane (mL)	Notes
SU	NA	1	NA	NA	NA	LDW-BA-SU-1-S010-SPME-TB-EXSITU3		LDW-BA-SU-S010-TB-EXSITU3					
SU	NA	2	NA	NA	NA	LDW-BA-SU-2-S010-SPME-TB-EXSITU3							
SU	NA	3	NA	NA	NA	LDW-BA-SU-3-S010-SPME-TB-EXSITU3							
SU	NA	4	NA	NA	NA	LDW-BA-SU-4-S010-SPME-TB-EXSITU3							
SU	NA	5	NA	NA	NA	LDW-BA-SU-5-S010-SPME-TB-EXSITU3							
SU	NA	6	NA	NA	NA	LDW-BA-SU-6-S010-SPME-TB-EXSITU3							

Attachment B-2
Y1 SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Location Cell	Composite	Diver Stat. ID	Discrete SPME Sample ID	Retrieved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hexane (mL)	Notes
SU	ENR+AC	1	15	A	31	LDW-Y1-SU-ENR+AC-1-A-S010-SPME		LDW-Y1-SU-ENR+AC-CA-S010					
SU	ENR+AC	2	24	A	36	LDW-Y1-SU-ENR+AC-2-A-S010-SPME							
SU	ENR+AC	3	22	A	41	LDW-Y1-SU-ENR+AC-3-A-S010-SPME							
SU	ENR+AC	4	3	A	46	LDW-Y1-SU-ENR+AC-4-A-S010-SPME							
SU	ENR+AC	5	3	A	51	LDW-Y1-SU-ENR+AC-5-A-S010-SPME							
SU	ENR+AC	6	1	A	56	LDW-Y1-SU-ENR+AC-6-A-S010-SPME							
SU	ENR+AC	1	17	B	32	LDW-Y1-SU-ENR+AC-1-B-S010-SPME		LDW-Y1-SU-ENR+AC-CB-S010					
SU	ENR+AC	2	5	B	37	LDW-Y1-SU-ENR+AC-2-B-S010-SPME							
SU	ENR+AC	3	13	B	42	LDW-Y1-SU-ENR+AC-3-B-S010-SPME							
SU	ENR+AC	4	23	B	47	LDW-Y1-SU-ENR+AC-4-B-S010-SPME							
SU	ENR+AC	5	12	B	52	LDW-Y1-SU-ENR+AC-5-B-S010-SPME							
SU	ENR+AC	6	11	B	57	LDW-Y1-SU-ENR+AC-6-B-S010-SPME							
SU	ENR+AC	1	8	C	33	LDW-Y1-SU-ENR+AC-1-C-S010-SPME		LDW-Y1-SU-ENR+AC-CC-S010					
SU	ENR+AC	2	3	C	38	LDW-Y1-SU-ENR+AC-2-C-S010-SPME							
SU	ENR+AC	3	15	C	43	LDW-Y1-SU-ENR+AC-3-C-S010-SPME							
SU	ENR+AC	4	6	C	48	LDW-Y1-SU-ENR+AC-4-C-S010-SPME							
SU	ENR+AC	5	22	C	53	LDW-Y1-SU-ENR+AC-5-C-S010-SPME							
SU	ENR+AC	6	5	C	58	LDW-Y1-SU-ENR+AC-6-C-S010-SPME							

Attachment B-2
Y1 SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Location Cell	Composite	Diver Stat. ID	Discrete SPME Sample ID	Retrieved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hexane (mL)	Notes
SU	ENR+AC	1	21	D	34	LDW-Y1-SU-ENR+AC-1-D-S010-SPME		LDW-Y1-SU-ENR+AC-CD-S010					
SU	ENR+AC	2	1	D	39	LDW-Y1-SU-ENR+AC-2-D-S010-SPME							
SU	ENR+AC	3	7	D	44	LDW-Y1-SU-ENR+AC-3-D-S010-SPME							
SU	ENR+AC	4	2	D	49	LDW-Y1-SU-ENR+AC-4-D-S010-SPME							
SU	ENR+AC	5	18	D	54	LDW-Y1-SU-ENR+AC-5-D-S010-SPME							
SU	ENR+AC	6	2	D	59	LDW-Y1-SU-ENR+AC-6-D-S010-SPME							
SU	ENR+AC	1	14	E	35	LDW-Y1-SU-ENR+AC-1-E-S010-SPME		LDW-Y1-SU-ENR+AC-CE-S010					
SU	ENR+AC	2	17	E	40	LDW-Y1-SU-ENR+AC-2-E-S010-SPME							
SU	ENR+AC	3	24	E	45	LDW-Y1-SU-ENR+AC-3-E-S010-SPME							
SU	ENR+AC	4	7	E	50	LDW-Y1-SU-ENR+AC-4-E-S010-SPME							
SU	ENR+AC	5	23	E	55	LDW-Y1-SU-ENR+AC-5-E-S010-SPME							
SU	ENR+AC	6	23	E	60	LDW-Y1-SU-ENR+AC-6-E-S010-SPME							
SU	ENR	1	11	A	1	LDW-Y1-SU-ENR-1-A-S010-SPME		LDW-Y1-SU-ENR-CA-S010					
SU	ENR	2	15	A	6	LDW-Y1-SU-ENR-2-A-S010-SPME							
SU	ENR	3	5	A	11	LDW-Y1-SU-ENR-3-A-S010-SPME							
SU	ENR	4	5	A	16	LDW-Y1-SU-ENR-4-A-S010-SPME							
SU	ENR	5	4	A	21	LDW-Y1-SU-ENR-5-A-S010-SPME							
SU	ENR	6	17	A	26	LDW-Y1-SU-ENR-6-A-S010-SPME							

Attachment B-2
Y1 SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Location Cell	Composite	Diver Stat. ID	Discrete SPME Sample ID	Retrieved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hexane (mL)	Notes
SU	ENR	1	8	B	2	LDW-Y1-SU-ENR-1-B-S010-SPME		LDW-Y1-SU-ENR-CB-S010					
SU	ENR	2	8	B	7	LDW-Y1-SU-ENR-2-B-S010-SPME							
SU	ENR	3	13	B	12	LDW-Y1-SU-ENR-3-B-S010-SPME							
SU	ENR	4	17	B	17	LDW-Y1-SU-ENR-4-B-S010-SPME							
SU	ENR	5	18	B	22	LDW-Y1-SU-ENR-5-B-S010-SPME							
SU	ENR	6	1	B	27	LDW-Y1-SU-ENR-6-B-S010-SPME							
SU	ENR	1	16	C	3	LDW-Y1-SU-ENR-1-C-S010-SPME		LDW-Y1-SU-ENR-CC-S010					
SU	ENR	2	4	C	8	LDW-Y1-SU-ENR-2-C-S010-SPME							
SU	ENR	3	17	C	13	LDW-Y1-SU-ENR-3-C-S010-SPME							
SU	ENR	4	7	C	18	LDW-Y1-SU-ENR-4-C-S010-SPME							
SU	ENR	5	5	C	23	LDW-Y1-SU-ENR-5-C-S010-SPME							
SU	ENR	6	20	C	28	LDW-Y1-SU-ENR-6-C-S010-SPME							
SU	ENR	1	14	D	4	LDW-Y1-SU-ENR-1-D-S010-SPME		LDW-Y1-SU-ENR-CD-S010					
SU	ENR	2	9	D	9	LDW-Y1-SU-ENR-2-D-S010-SPME							
SU	ENR	3	3	D	14	LDW-Y1-SU-ENR-3-D-S010-SPME							
SU	ENR	4	4	D	19	LDW-Y1-SU-ENR-4-D-S010-SPME							
SU	ENR	5	6	D	24	LDW-Y1-SU-ENR-5-D-S010-SPME							
SU	ENR	6	11	D	29	LDW-Y1-SU-ENR-6-D-S010-SPME							

Attachment B-2
Y1 SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Location Cell	Composite	Diver Stat. ID	Discrete SPME Sample ID	Retrieved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hexane (mL)	Notes
SU	ENR	1	7	E	5	LDW-Y1-SU-ENR-1-E-S010-SPME		LDW-Y1-SU-ENR-CE-S010					
SU	ENR	2	16	E	10	LDW-Y1-SU-ENR-2-E-S010-SPME							
SU	ENR	3	20	E	15	LDW-Y1-SU-ENR-3-E-S010-SPME							
SU	ENR	4	2	E	20	LDW-Y1-SU-ENR-4-E-S010-SPME							
SU	ENR	5	9	E	25	LDW-Y1-SU-ENR-5-E-S010-SPME							
SU	ENR	6	7	E	30	LDW-Y1-SU-ENR-6-E-S010-SPME							
SU	NA	1	NA	NA	NA	LDW-Y1-SU-1-S010-SPME-TB-EXSITU1		LDW-Y1-SU-S010-TB-EXSITU1					
SU	NA	2	NA	NA	NA	LDW-Y1-SU-2-S010-SPME-TB-EXSITU1							
SU	NA	3	NA	NA	NA	LDW-Y1-SU-3-S010-SPME-TB-EXSITU1							
SU	NA	4	NA	NA	NA	LDW-Y1-SU-4-S010-SPME-TB-EXSITU1							
SU	NA	5	NA	NA	NA	LDW-Y1-SU-5-S010-SPME-TB-EXSITU1							
SU	NA	6	NA	NA	NA	LDW-Y1-SU-6-S010-SPME-TB-EXSITU1							
SU	NA	1	NA	NA	NA	LDW-Y1-SU-1-S010-SPME-TB-EXSITU2		LDW-Y1-SU-S010-TB-EXSITU2					
SU	NA	2	NA	NA	NA	LDW-Y1-SU-2-S010-SPME-TB-EXSITU2							
SU	NA	3	NA	NA	NA	LDW-Y1-SU-3-S010-SPME-TB-EXSITU2							
SU	NA	4	NA	NA	NA	LDW-Y1-SU-4-S010-SPME-TB-EXSITU2							
SU	NA	5	NA	NA	NA	LDW-Y1-SU-5-S010-SPME-TB-EXSITU2							
SU	NA	6	NA	NA	NA	LDW-Y1-SU-6-S010-SPME-TB-EXSITU2							

Attachment B-2
Y1 SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Loca-tion Cell	Co mp-osit e	Diver Stat. ID	Discrete SPME Sample ID	Retri-eved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hex-ane (mL)	Notes
SU	NA	1	NA	NA	NA	LDW-Y1-SU-1-S010-SPME-TB-EXSITU3		LDW-Y1-SU-S010-TB-EXSITU3					
SU	NA	2	NA	NA	NA	LDW-Y1-SU-2-S010-SPME-TB-EXSITU3							
SU	NA	3	NA	NA	NA	LDW-Y1-SU-3-S010-SPME-TB-EXSITU3							
SU	NA	4	NA	NA	NA	LDW-Y1-SU-4-S010-SPME-TB-EXSITU3							
SU	NA	5	NA	NA	NA	LDW-Y1-SU-5-S010-SPME-TB-EXSITU3							
SU	NA	6	NA	NA	NA	LDW-Y1-SU-6-S010-SPME-TB-EXSITU3							

Attachment B-3
Y2 SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Location Cell	Composite	Diver Stat. ID	Discrete SPME Sample ID	Retrieved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hexane (mL)	Notes
SU	ENR+AC	1	12	A	31	LDW-Y2-SU-ENR+AC-1-A-S010-SPME		LDW-Y2-SU-ENR+AC-CA-S010					
SU	ENR+AC	2	10	A	36	LDW-Y2-SU-ENR+AC-2-A-S010-SPME							
SU	ENR+AC	3	10	A	41	LDW-Y2-SU-ENR+AC-3-A-S010-SPME							
SU	ENR+AC	4	20	A	46	LDW-Y2-SU-ENR+AC-4-A-S010-SPME							
SU	ENR+AC	5	2	A	51	LDW-Y2-SU-ENR+AC-5-A-S010-SPME							
SU	ENR+AC	6	14	A	56	LDW-Y2-SU-ENR+AC-6-A-S010-SPME							
SU	ENR+AC	1	19	B	32	LDW-Y2-SU-ENR+AC-1-B-S010-SPME		LDW-Y2-SU-ENR+AC-CB-S010					
SU	ENR+AC	2	8	B	37	LDW-Y2-SU-ENR+AC-2-B-S010-SPME							
SU	ENR+AC	3	18	B	42	LDW-Y2-SU-ENR+AC-3-B-S010-SPME							
SU	ENR+AC	4	9	B	47	LDW-Y2-SU-ENR+AC-4-B-S010-SPME							
SU	ENR+AC	5	9	B	52	LDW-Y2-SU-ENR+AC-5-B-S010-SPME							
SU	ENR+AC	6	17	B	57	LDW-Y2-SU-ENR+AC-6-B-S010-SPME							
SU	ENR+AC	1	16	C	33	LDW-Y2-SU-ENR+AC-1-C-S010-SPME		LDW-Y2-SU-ENR+AC-CC-S010					
SU	ENR+AC	2	6	C	38	LDW-Y2-SU-ENR+AC-2-C-S010-SPME							
SU	ENR+AC	3	20	C	43	LDW-Y2-SU-ENR+AC-3-C-S010-SPME							
SU	ENR+AC	4	4	C	48	LDW-Y2-SU-ENR+AC-4-C-S010-SPME							
SU	ENR+AC	5	7	C	53	LDW-Y2-SU-ENR+AC-5-C-S010-SPME							
SU	ENR+AC	6	6	C	58	LDW-Y2-SU-ENR+AC-6-C-S010-SPME							

Attachment B-3
Y2 SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Location Cell	Composite	Diver Stat. ID	Discrete SPME Sample ID	Retrieved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hexane (mL)	Notes
SU	ENR+AC	1	22	D	34	LDW-Y2-SU-ENR+AC-1-D-S010-SPME		LDW-Y2-SU-ENR+AC-CD-S010					
SU	ENR+AC	2	4	D	39	LDW-Y2-SU-ENR+AC-2-D-S010-SPME							
SU	ENR+AC	3	19	D	44	LDW-Y2-SU-ENR+AC-3-D-S010-SPME							
SU	ENR+AC	4	11	D	49	LDW-Y2-SU-ENR+AC-4-D-S010-SPME							
SU	ENR+AC	5	11	D	54	LDW-Y2-SU-ENR+AC-5-D-S010-SPME							
SU	ENR+AC	6	15	D	59	LDW-Y2-SU-ENR+AC-6-D-S010-SPME							
SU	ENR+AC	1	5	E	35	LDW-Y2-SU-ENR+AC-1-E-S010-SPME		LDW-Y2-SU-ENR+AC-CE-S010					
SU	ENR+AC	2	19	E	40	LDW-Y2-SU-ENR+AC-2-E-S010-SPME							
SU	ENR+AC	3	1	E	45	LDW-Y2-SU-ENR+AC-3-E-S010-SPME							
SU	ENR+AC	4	18	E	50	LDW-Y2-SU-ENR+AC-4-E-S010-SPME							
SU	ENR+AC	5	21	E	55	LDW-Y2-SU-ENR+AC-5-E-S010-SPME							
SU	ENR+AC	6	4	E	60	LDW-Y2-SU-ENR+AC-6-E-S010-SPME							
SU	ENR	1	5	A	1	LDW-Y2-SU-ENR-1-A-S010-SPME		LDW-Y2-SU-ENR-CA-S010					
SU	ENR	2	7	A	6	LDW-Y2-SU-ENR-2-A-S010-SPME							
SU	ENR	3	9	A	11	LDW-Y2-SU-ENR-3-A-S010-SPME							
SU	ENR	4	21	A	16	LDW-Y2-SU-ENR-4-A-S010-SPME							
SU	ENR	5	20	A	21	LDW-Y2-SU-ENR-5-A-S010-SPME							
SU	ENR	6	16	A	26	LDW-Y2-SU-ENR-6-A-S010-SPME							

Attachment B-3
Y2 SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Location Cell	Composite	Diver Stat. ID	Discrete SPME Sample ID	Retrieved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hexane (mL)	Notes
SU	ENR	1	4	B	2	LDW-Y2-SU-ENR-1-B-S010-SPME		LDW-Y2-SU-ENR-CB-S010					
SU	ENR	2	1	B	7	LDW-Y2-SU-ENR-2-B-S010-SPME							
SU	ENR	3	15	B	12	LDW-Y2-SU-ENR-3-B-S010-SPME							
SU	ENR	4	23	B	17	LDW-Y2-SU-ENR-4-B-S010-SPME							
SU	ENR	5	3	B	22	LDW-Y2-SU-ENR-5-B-S010-SPME							
SU	ENR	6	4	B	27	LDW-Y2-SU-ENR-6-B-S010-SPME							
SU	ENR	1	23	C	3	LDW-Y2-SU-ENR-1-C-S010-SPME		LDW-Y2-SU-ENR-CC-S010					
SU	ENR	2	14	C	8	LDW-Y2-SU-ENR-2-C-S010-SPME							
SU	ENR	3	4	C	13	LDW-Y2-SU-ENR-3-C-S010-SPME							
SU	ENR	4	9	C	18	LDW-Y2-SU-ENR-4-C-S010-SPME							
SU	ENR	5	24	C	23	LDW-Y2-SU-ENR-5-C-S010-SPME							
SU	ENR	6	14	C	28	LDW-Y2-SU-ENR-6-C-S010-SPME							
SU	ENR	1	20	D	4	LDW-Y2-SU-ENR-1-D-S010-SPME		LDW-Y2-SU-ENR-CD-S010					
SU	ENR	2	24	D	9	LDW-Y2-SU-ENR-2-D-S010-SPME							
SU	ENR	3	2	D	14	LDW-Y2-SU-ENR-3-D-S010-SPME							
SU	ENR	4	12	D	19	LDW-Y2-SU-ENR-4-D-S010-SPME							
SU	ENR	5	22	D	24	LDW-Y2-SU-ENR-5-D-S010-SPME							
SU	ENR	6	21	D	29	LDW-Y2-SU-ENR-6-D-S010-SPME							

Attachment B-3
Y2 SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Location Cell	Composite	Diver Stat. ID	Discrete SPME Sample ID	Retrieved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hexane (mL)	Notes
SU	ENR	1	12	E	5	LDW-Y2-SU-ENR-1-E-S010-SPME		LDW-Y2-SU-ENR-CE-S010					
SU	ENR	2	17	E	10	LDW-Y2-SU-ENR-2-E-S010-SPME							
SU	ENR	3	1	E	15	LDW-Y2-SU-ENR-3-E-S010-SPME							
SU	ENR	4	3	E	20	LDW-Y2-SU-ENR-4-E-S010-SPME							
SU	ENR	5	7	E	25	LDW-Y2-SU-ENR-5-E-S010-SPME							
SU	ENR	6	8	E	30	LDW-Y2-SU-ENR-6-E-S010-SPME							
SU	NA	1	NA	NA	NA	LDW-Y2-SU-1-S010-SPME-TB-EXSITU1		LDW-Y2-SU-S010-TB-EXSITU1					
SU	NA	2	NA	NA	NA	LDW-Y2-SU-2-S010-SPME-TB-EXSITU1							
SU	NA	3	NA	NA	NA	LDW-Y2-SU-3-S010-SPME-TB-EXSITU1							
SU	NA	4	NA	NA	NA	LDW-Y2-SU-4-S010-SPME-TB-EXSITU1							
SU	NA	5	NA	NA	NA	LDW-Y2-SU-5-S010-SPME-TB-EXSITU1							
SU	NA	6	NA	NA	NA	LDW-Y2-SU-6-S010-SPME-TB-EXSITU1							
SU	NA	1	NA	NA	NA	LDW-Y2-SU-1-S010-SPME-TB-EXSITU2		LDW-Y2-SU-S010-TB-EXSITU2					
SU	NA	2	NA	NA	NA	LDW-Y2-SU-2-S010-SPME-TB-EXSITU2							
SU	NA	3	NA	NA	NA	LDW-Y2-SU-3-S010-SPME-TB-EXSITU2							
SU	NA	4	NA	NA	NA	LDW-Y2-SU-4-S010-SPME-TB-EXSITU2							
SU	NA	5	NA	NA	NA	LDW-Y2-SU-5-S010-SPME-TB-EXSITU2							
SU	NA	6	NA	NA	NA	LDW-Y2-SU-6-S010-SPME-TB-EXSITU2							

Attachment B-3
Y2 SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Loca-tion Cell	Co mp-osit e	Diver Stat. ID	Discrete SPME Sample ID	Retri-eved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hex-ane (mL)	Notes
SU	NA	1	NA	NA	NA	LDW-Y2-SU-1-S010-SPME-TB-EXSITU3		LDW-Y2-SU-S010-TB-EXSITU3					
SU	NA	2	NA	NA	NA	LDW-Y2-SU-2-S010-SPME-TB-EXSITU3							
SU	NA	3	NA	NA	NA	LDW-Y2-SU-3-S010-SPME-TB-EXSITU3							
SU	NA	4	NA	NA	NA	LDW-Y2-SU-4-S010-SPME-TB-EXSITU3							
SU	NA	5	NA	NA	NA	LDW-Y2-SU-5-S010-SPME-TB-EXSITU3							
SU	NA	6	NA	NA	NA	LDW-Y2-SU-6-S010-SPME-TB-EXSITU3							

Attachment B-4
Y3 SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Location Cell	Composite	Diver Stat. ID	Discrete SPME Sample ID	Retrieved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hexane (mL)	Notes
SU	ENR+AC	1	1	A	31	LDW-Y3-SU-ENR+AC-1-A-S010-SPME		LDW-Y3-SU-ENR+AC-CA-S010					
SU	ENR+AC	2	18	A	36	LDW-Y3-SU-ENR+AC-2-A-S010-SPME							
SU	ENR+AC	3	14	A	41	LDW-Y3-SU-ENR+AC-3-A-S010-SPME							
SU	ENR+AC	4	13	A	46	LDW-Y3-SU-ENR+AC-4-A-S010-SPME							
SU	ENR+AC	5	8	A	51	LDW-Y3-SU-ENR+AC-5-A-S010-SPME							
SU	ENR+AC	6	18	A	56	LDW-Y3-SU-ENR+AC-6-A-S010-SPME							
SU	ENR+AC	1	24	B	32	LDW-Y3-SU-ENR+AC-1-B-S010-SPME		LDW-Y3-SU-ENR+AC-CB-S010					
SU	ENR+AC	2	20	B	37	LDW-Y3-SU-ENR+AC-2-B-S010-SPME							
SU	ENR+AC	3	8	B	42	LDW-Y3-SU-ENR+AC-3-B-S010-SPME							
SU	ENR+AC	4	24	B	47	LDW-Y3-SU-ENR+AC-4-B-S010-SPME							
SU	ENR+AC	5	13	B	52	LDW-Y3-SU-ENR+AC-5-B-S010-SPME							
SU	ENR+AC	6	21	B	57	LDW-Y3-SU-ENR+AC-6-B-S010-SPME							
SU	ENR+AC	1	9	C	33	LDW-Y3-SU-ENR+AC-1-C-S010-SPME		LDW-Y3-SU-ENR+AC-CC-S010					
SU	ENR+AC	2	9	C	38	LDW-Y3-SU-ENR+AC-2-C-S010-SPME							
SU	ENR+AC	3	12	C	43	LDW-Y3-SU-ENR+AC-3-C-S010-SPME							
SU	ENR+AC	4	8	C	48	LDW-Y3-SU-ENR+AC-4-C-S010-SPME							
SU	ENR+AC	5	17	C	53	LDW-Y3-SU-ENR+AC-5-C-S010-SPME							
SU	ENR+AC	6	8	C	58	LDW-Y3-SU-ENR+AC-6-C-S010-SPME							

Attachment B-4
Y3 SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Location Cell	Composite	Diver Stat. ID	Discrete SPME Sample ID	Retrieved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hexane (mL)	Notes
SU	ENR+AC	1	20	D	34	LDW-Y3-SU-ENR+AC-1-D-S010-SPME		LDW-Y3-SU-ENR+AC-CD-S010					
SU	ENR+AC	2	2	D	39	LDW-Y3-SU-ENR+AC-2-D-S010-SPME							
SU	ENR+AC	3	5	D	44	LDW-Y3-SU-ENR+AC-3-D-S010-SPME							
SU	ENR+AC	4	16	D	49	LDW-Y3-SU-ENR+AC-4-D-S010-SPME							
SU	ENR+AC	5	1	D	54	LDW-Y3-SU-ENR+AC-5-D-S010-SPME							
SU	ENR+AC	6	19	D	59	LDW-Y3-SU-ENR+AC-6-D-S010-SPME							
SU	ENR+AC	1	6	E	35	LDW-Y3-SU-ENR+AC-1-E-S010-SPME		LDW-Y3-SU-ENR+AC-CE-S010					
SU	ENR+AC	2	13	E	40	LDW-Y3-SU-ENR+AC-2-E-S010-SPME							
SU	ENR+AC	3	9	E	45	LDW-Y3-SU-ENR+AC-3-E-S010-SPME							
SU	ENR+AC	4	1	E	50	LDW-Y3-SU-ENR+AC-4-E-S010-SPME							
SU	ENR+AC	5	14	E	55	LDW-Y3-SU-ENR+AC-5-E-S010-SPME							
SU	ENR+AC	6	24	E	60	LDW-Y3-SU-ENR+AC-6-E-S010-SPME							
SU	ENR	1	18	A	1	LDW-Y3-SU-ENR-1-A-S010-SPME		LDW-Y3-SU-ENR-CA-S010					
SU	ENR	2	13	A	6	LDW-Y3-SU-ENR-2-A-S010-SPME							
SU	ENR	3	12	A	11	LDW-Y3-SU-ENR-3-A-S010-SPME							
SU	ENR	4	11	A	16	LDW-Y3-SU-ENR-4-A-S010-SPME							
SU	ENR	5	19	A	21	LDW-Y3-SU-ENR-5-A-S010-SPME							
SU	ENR	6	2	A	26	LDW-Y3-SU-ENR-6-A-S010-SPME							

Attachment B-4
Y3 SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Location Cell	Composite	Diver Stat. ID	Discrete SPME Sample ID	Retrieved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hexane (mL)	Notes
SU	ENR	1	1	B	2	LDW-Y3-SU-ENR-1-B-S010-SPME		LDW-Y3-SU-ENR-CB-S010					
SU	ENR	2	12	B	7	LDW-Y3-SU-ENR-2-B-S010-SPME							
SU	ENR	3	24	B	12	LDW-Y3-SU-ENR-3-B-S010-SPME							
SU	ENR	4	22	B	17	LDW-Y3-SU-ENR-4-B-S010-SPME							
SU	ENR	5	10	B	22	LDW-Y3-SU-ENR-5-B-S010-SPME							
SU	ENR	6	22	B	27	LDW-Y3-SU-ENR-6-B-S010-SPME							
SU	ENR	1	22	C	3	LDW-Y3-SU-ENR-1-C-S010-SPME		LDW-Y3-SU-ENR-CC-S010					
SU	ENR	2	10	C	8	LDW-Y3-SU-ENR-2-C-S010-SPME							
SU	ENR	3	18	C	13	LDW-Y3-SU-ENR-3-C-S010-SPME							
SU	ENR	4	13	C	18	LDW-Y3-SU-ENR-4-C-S010-SPME							
SU	ENR	5	8	C	23	LDW-Y3-SU-ENR-5-C-S010-SPME							
SU	ENR	6	19	C	28	LDW-Y3-SU-ENR-6-C-S010-SPME							
SU	ENR	1	21	D	4	LDW-Y3-SU-ENR-1-D-S010-SPME		LDW-Y3-SU-ENR-CD-S010					
SU	ENR	2	2	D	9	LDW-Y3-SU-ENR-2-D-S010-SPME							
SU	ENR	3	16	D	14	LDW-Y3-SU-ENR-3-D-S010-SPME							
SU	ENR	4	15	D	19	LDW-Y3-SU-ENR-4-D-S010-SPME							
SU	ENR	5	2	D	24	LDW-Y3-SU-ENR-5-D-S010-SPME							
SU	ENR	6	15	D	29	LDW-Y3-SU-ENR-6-D-S010-SPME							

Attachment B-4
Y3 SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Location Cell	Composite	Diver Stat. ID	Discrete SPME Sample ID	Retrieved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hexane (mL)	Notes
SU	ENR	1	9	E	5	LDW-Y3-SU-ENR-1-E-S010-SPME		LDW-Y3-SU-ENR-CE-S010					
SU	ENR	2	11	E	10	LDW-Y3-SU-ENR-2-E-S010-SPME							
SU	ENR	3	10	E	15	LDW-Y3-SU-ENR-3-E-S010-SPME							
SU	ENR	4	10	E	20	LDW-Y3-SU-ENR-4-E-S010-SPME							
SU	ENR	5	14	E	25	LDW-Y3-SU-ENR-5-E-S010-SPME							
SU	ENR	6	13	E	30	LDW-Y3-SU-ENR-6-E-S010-SPME							
SU	NA	1	NA	NA	NA	LDW-Y3-SU-1-S010-SPME-TB-EXSITU1		LDW-Y3-SU-S010-TB-EXSITU1					
SU	NA	2	NA	NA	NA	LDW-Y3-SU-2-S010-SPME-TB-EXSITU1							
SU	NA	3	NA	NA	NA	LDW-Y3-SU-3-S010-SPME-TB-EXSITU1							
SU	NA	4	NA	NA	NA	LDW-Y3-SU-4-S010-SPME-TB-EXSITU1							
SU	NA	5	NA	NA	NA	LDW-Y3-SU-5-S010-SPME-TB-EXSITU1							
SU	NA	6	NA	NA	NA	LDW-Y3-SU-6-S010-SPME-TB-EXSITU1							
SU	NA	1	NA	NA	NA	LDW-Y3-SU-1-S010-SPME-TB-EXSITU2		LDW-Y3-SU-S010-TB-EXSITU2					
SU	NA	2	NA	NA	NA	LDW-Y3-SU-2-S010-SPME-TB-EXSITU2							
SU	NA	3	NA	NA	NA	LDW-Y3-SU-3-S010-SPME-TB-EXSITU2							
SU	NA	4	NA	NA	NA	LDW-Y3-SU-4-S010-SPME-TB-EXSITU2							
SU	NA	5	NA	NA	NA	LDW-Y3-SU-5-S010-SPME-TB-EXSITU2							
SU	NA	6	NA	NA	NA	LDW-Y3-SU-6-S010-SPME-TB-EXSITU2							

Attachment B-4
Y3 SPME Compositing, Processing, and Extraction Log
Lower Duwamish Waterway Group

Plot	Sub-plot	Grid Cell	Location Cell	Composite	Diver Stat. ID	Discrete SPME Sample ID	Retrieved? (Y/N)	Composite SPME Sample ID and Vial ID	Date and Time	Vial Weight - Without Fibers (grams) (± 0.0001 g)	Vial Weight - With Fibers (grams) (± 0.0001 g)	Vol. Hexane (mL)	Notes
SU	NA	1	NA	NA	NA	LDW-Y3-SU-1-S010-SPME-TB-EXSITU3		LDW-Y3-SU-S010-TB-EXSITU3					
SU	NA	2	NA	NA	NA	LDW-Y3-SU-2-S010-SPME-TB-EXSITU3							
SU	NA	3	NA	NA	NA	LDW-Y3-SU-3-S010-SPME-TB-EXSITU3							
SU	NA	4	NA	NA	NA	LDW-Y3-SU-4-S010-SPME-TB-EXSITU3							
SU	NA	5	NA	NA	NA	LDW-Y3-SU-5-S010-SPME-TB-EXSITU3							
SU	NA	6	NA	NA	NA	LDW-Y3-SU-6-S010-SPME-TB-EXSITU3							