

Attachment C

Sample-Specific Details and Rationale

This attachment provides detailed information regarding sediment sampling locations in the Inlet at RM 2.2W. The tables included in this attachment are:

- Table C-1 Sample Location Rationale and Analytes
- Table C-2 Sample Location Details
- Table C-3 Vertical Extent Core Profiles

Tables C-1 and C-2 provide location-specific details regarding rationale for collection, analytes, and details for sample collection to be used by the field crew. Table C-3 presents the core profiles for the vertical extent samples; the profiles provide details regarding which intervals will be analyzed and archived at each location.

**Table C-1
Sample Location Rationale and Analytes**

Location No. ¹	RM	Area No.	Tidal Category	Sample Type(s)					Recovery Category	In FNC?	Shoaling Area	Potential Vessel Scour Area	Mudline Elevation (feet MLLW) ¹	Rationale					Notes	Analytes By Sample Type ³		
				0-10 cm	0-45 cm	0-60 cm	Shoal	Vertical Extent						Horizontal Bounding ²	Vertical Extent	Side Slope	Reoccupation	Other		Surface Sediment Samples (0-10 cm)	Subsurface Sediment Samples (0-45 cm, 0-60 cm, or Shoaling Intervals)	Vertical Extent Samples
Outer Inlet																						
1590	2.3	20	Intertidal	x	x			a	2	No	No	No	6.0	x	a				Full suite (PCBs, metals, mercury, PAHs, phthalates, other SVOCs), dioxins/furans	PCBs, dioxins/furans, arsenic, PAHs	Archive	
1591	2.2	20	Intertidal	x	x				2	No	No	No	1.0	x					Full suite (PCBs, metals, mercury, PAHs, phthalates, other SVOCs), dioxins/furans	PCBs, dioxins/furans, arsenic, PAHs	-	
1592	2.2	20	Intertidal		a			x	2	No	No	No	6.6		x				Location part of Transect 7 (see Map 4-2b).	-	Archive	PCBs, mercury
1593	2.2	20	Intertidal		a			x	2	No	No	No	6.6		x				Location part of Transect 6 (see Map 4-2b).	-	Archive	PCBs, mercury
1594	2.2	20	Intertidal		a			x	2	No	No	No	2.0		x				Location part of Transect 6 (see Map 4-2b).	-	Archive	PCBs, mercury
1595	2.2	20	Intertidal		a			x	2	No	No	No	7.0		x					-	Archive	PCBs, mercury
Inner Inlet																						
1596	2.2	20	Intertidal		a			x	2	No	No	No	6.9		x				Location part of Transect 5 (see Map 4-2a).	-	Archive	PCBs, mercury
1597	2.2	20	Intertidal		a			x	2	No	No	No	6.7		x				Location part of Transect 5 (see Map 4-2a).	-	Archive	PCBs, mercury
1598	2.2	20	Intertidal		a			x	2	No	No	No	7.5		x				Location part of Transect 4 (see Map 4-2a).	-	Archive	PCBs, mercury
1599	2.2	20	Intertidal		a			x	2	No	No	No	6.2		x				Location part of Transect 4 (see Map 4-2a).	-	Archive	PCBs, mercury
1600	2.2	20	Intertidal		a			x	2	No	No	No	5.6		x			x	Location part of Transect 3 (see Map 4-2a). Location will help delineate extent of material that may require Subtitle C disposal (PCBs > 50 ppm).	-	Archive	PCBs, mercury
1601	2.2	20	Intertidal		a			x	2	No	No	No	6.9		x			x	Location part of Transect 3 (see Map 4-2a). Location will help delineate extent of material that may require Subtitle C disposal (PCBs > 50 ppm).	-	Archive	PCBs, mercury
1602	2.2	20	Intertidal		a			x	2	No	No	No	5.1		x			x	Location will help delineate extent of material that may require Subtitle C disposal (PCBs > 50 ppm).	-	Archive	PCBs, mercury
1603	2.2	20	Intertidal		a			x	2	No	No	No	7.7		x				Location part of Transect 2 (see Map 4-2a).	-	Archive	PCBs, mercury
1604	2.2	20	Intertidal		a			x	2	No	No	No	6.9		x			x	Location part of Transect 2 (see Map 4-2a). Location will help delineate extent of material that may require Subtitle C disposal (PCBs > 50 ppm).	-	Archive	PCBs, mercury
1605	2.2	20	Intertidal		a			x	2	No	No	No	4.5		x			x	Location will help delineate extent of material that may require Subtitle C disposal (PCBs > 50 ppm).	-	Archive	PCBs, mercury
1606	2.2	20	Intertidal		a			x	2	No	No	No	6.8		x				Location part of Transect 1 (see Map 4-2a).	-	Archive	PCBs, mercury
1607	2.2	20	Intertidal		a			x	2	No	No	No	4.0		x				Location part of Transect 1 (see Map 4-2a).	-	Archive	PCBs, mercury
1608	2.2	20	Intertidal		a			x	2	No	No	No	4.6		x				Location part of Transect 1 (see Map 4-2a).	-	Archive	PCBs, mercury

**Table C-1
Sample Location Rationale and Analytes**

Location No. ¹	RM	Area No.	Tidal Category	Sample Type(s)					Recovery Category	In FNC?	Shoaling Area	Potential Vessel Scour Area	Mudline Elevation (feet MLLW) ¹	Rationale					Notes	Analytes By Sample Type ³			
				0-10 cm	0-45 cm	0-60 cm	Shoal	Vertical Extent						Horizontal Bounding ²	Vertical Extent	Side Slope	Reoccupation	Other		Surface Sediment Samples (0-10 cm)	Subsurface Sediment Samples (0-45 cm, 0-60 cm, or Shoaling Intervals)	Vertical Extent Samples	
1609	2.2	20	Intertidal		a			x	2	No	No	No	6.3		x						-	Archive	PCBs, mercury
1610	2.2	20	Intertidal		a			x	2	No	No	No	7.4		x						-	Archive	PCBs, mercury

Notes:

- Mudline elevations are based on the 2021/2023 bathymetry survey data, supplemented within the inlet by the 2018 Dalton Olmsted & Fuglevand survey.
 - Horizontal bounding includes sample placement intended to characterize areas with interpolation uncertainty.
 - The columns indicating analytes by sample type use green shading to show that sample interval(s) will be collected and analyzed in Tier 1 and gray shading to indicate that sample interval(s) will be collected and archived. A dash (-) indicates that a given interval will not be collected.
- a: Tier 2 sample to be collected and archived
 FNC: Federal Navigation Channel
 MLLW: mean lower low water
 PAH: polycyclic aromatic hydrocarbon
 PCB: polychlorinated biphenyl
 RM: river mile
 SVOC: semivolatile organic compound
 x: Tier 1 sample to be collected and analyzed

**Table C-2
Sample Location Details**

Location No.	RM	Area No.	Tidal Category	Sample Type(s)					Reoccu- pation?	Toxicity Test?	In the FNC?	Mudline Elevation (ft MLLW) ¹	Vertical Extent Details				Estimated Shoal Thickness	Target Coordinates			
				0-10 cm	0-45 cm	0-60 cm	Shoal	Vertical Extent					Vertical Category	Authorized or Operating Depth	Target Core Elevation or Length	Estimated Core Length (ft)		X	Y	Longitude	Latitude
Outer Inlet																					
1590	2.3	20	Intertidal	x	x			a	-	-	No	6.0	location-specific	-	-5 ft MLLW	11.0	-	1270336	200270	-122.33171	47.53915
1591	2.2	20	Intertidal	x	x				-	-	No	1.0	-	-	-	-	-	1270306	200308	-122.33183	47.53926
1592	2.2	20	Intertidal		a			x	-	-	No	6.6	location-specific	-	-5 ft MLLW	11.6	-	1270246	200291	-122.33207	47.53921
1593	2.2	20	Intertidal		a			x	-	-	No	6.6	location-specific	-	-6 ft MLLW	12.6	-	1270194	200279	-122.33228	47.53917
1594	2.2	20	Intertidal		a			x	-	-	No	2.0	location-specific	-	-6 ft MLLW	8.0	-	1270194	200371	-122.33229	47.53942
1595	2.2	20	Intertidal		a			x	-	-	No	7.0	location-specific	-	-5 ft MLLW	12.0	-	1270157	200309	-122.33243	47.53925
Inner Inlet																					
1596	2.2	20	Intertidal		a			x	-	-	No	6.9	location-specific	-	-5 ft MLLW	11.9	-	1270108	200338	-122.33264	47.53933
1597	2.2	20	Intertidal		a			x	-	-	No	6.7	location-specific	-	-5 ft MLLW	11.7	-	1270106	200368	-122.33264	47.53941
1598	2.2	20	Intertidal		a			x	-	-	No	7.5	location-specific	-	-5 ft MLLW	12.5	-	1270037	200326	-122.33292	47.53929
1599	2.2	20	Intertidal		a			x	-	-	No	6.2	location-specific	-	-5 ft MLLW	11.2	-	1270035	200374	-122.33293	47.53942
1600	2.2	20	Intertidal		a			x	-	-	No	5.6	location-specific	-	-5 ft MLLW	10.6	-	1269973	200292	-122.33318	47.53920
1601	2.2	20	Intertidal		a			x	-	-	No	6.9	location-specific	-	-5 ft MLLW	11.9	-	1269971	200353	-122.33319	47.53936
1602	2.2	20	Intertidal		a			x	-	-	No	5.1	location-specific	-	-3 ft MLLW	8.1	-	1269930	200337	-122.33335	47.53932
1603	2.2	20	Intertidal		a			x	-	-	No	7.7	location-specific	-	-3 ft MLLW	10.7	-	1269895	200315	-122.33349	47.53925
1604	2.2	20	Intertidal		a			x	-	-	No	6.9	location-specific	-	-3 ft MLLW	9.9	-	1269895	200353	-122.33350	47.53936
1605	2.2	20	Intertidal		a			x	-	-	No	4.5	location-specific	-	-3 ft MLLW	7.5	-	1269854	200322	-122.33366	47.53927
1606	2.2	20	Intertidal		a			x	-	-	No	6.8	location-specific	-	-3 ft MLLW	9.8	-	1269831	200320	-122.33375	47.53927
1607	2.2	20	Intertidal		a			x	-	-	No	4.0	location-specific	-	-3 ft MLLW	7.0	-	1269831	200347	-122.33376	47.53934
1608	2.2	20	Intertidal		a			x	-	-	No	4.6	location-specific	-	-3 ft MLLW	7.6	-	1269831	200360	-122.33376	47.53937
1609	2.2	20	Intertidal		a			x	-	-	No	6.3	location-specific	-	-3 ft MLLW	9.3	-	1269757	200361	-122.33406	47.53937
1610	2.2	20	Intertidal		a			x	-	-	No	7.4	location-specific	-	-3 ft MLLW	10.4	-	1269935	200304	-122.33333	47.53923

Notes:

1. Mudline elevations are based on the 2021/2023 bathymetry survey data, supplemented within the inlet by the 2018 Dalton Olmsted & Fuglevand survey.

a: Tier 2 sample to be collected and archived

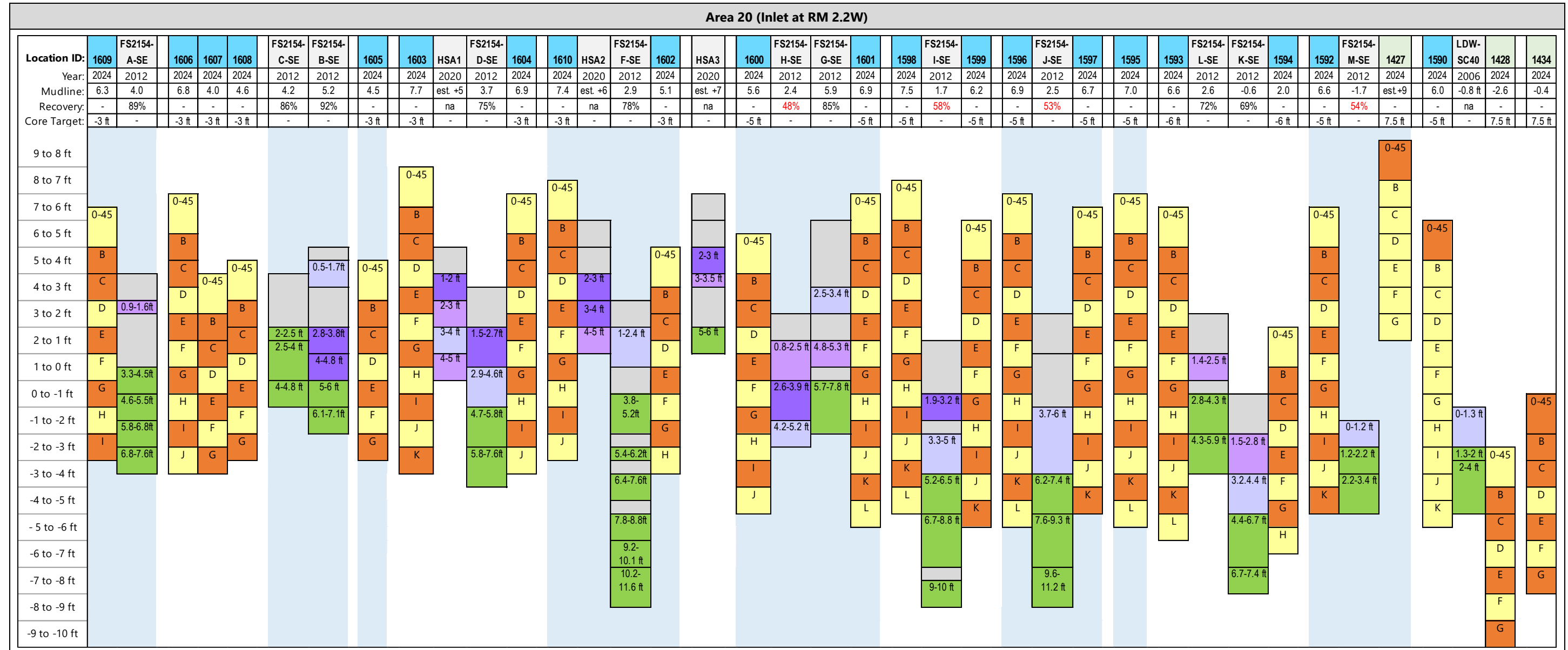
FNC: Federal Navigation Channel

MLLW: mean lower low water

RM: river mile

x: Tier 1 sample to be collected and analyzed

Table C-3
Vertical Extent Core Profiles



Notes:

- Mudline elevations are shown in feet MLLW. Sample interval measurements are in centimeters unless otherwise indicated.
- Light blue shading indicates grouping of cores in transects.
- Light green shading indicates locations presented in QAPP Addendum No. 1, which are shown here for informational purposes.
- Core recoveries are shown for existing cores (cores from 2012 are recovery corrected). Recovery percentages shown in red denote recoveries less than 60%, indicating higher levels of uncertainties in the core interval depths.
- For Phase II cores (indicated with blue shading), colors indicate the following: Orange – Tier 1 sample to be analyzed; Yellow – Tier 2 sample to be archived for potential analysis.
- For existing vertical extent cores, shades of purple indicate concentrations above surface sediment RALs for any COC. Specifically, dark purple indicates EFs > 100, purple indicates EFs of 10–100, and light purple indicates EFs < 10 (with one exception—the 2.9–4.6-foot interval for FS2154-D-SE—all purple shading is based on EFs for total PCBs). Green shading indicates concentrations below all surface sediment RALs. Gray shading indicates intervals that were not analyzed.

COC: contaminant of concern
 EF: exceedance factor
 ID: identification
 MLLW: mean lower low water
 PCB: polychlorinated biphenyl
 RAL: remedial action level
 RM: river mile