Appendix B
Phase III Sampling Location Details

This appendix provides detailed information regarding Phase III sediment sampling locations in the middle reach. The tables included in this appendix are:

- Table B-1. Sample Location Rationale and Analytes
- Table B-2. Sample Location Details
- Table B-3. Precipitate Layer Investigation Locations
- Table B-4. Sheen Testing Locations for RAAs Where Dredging Is Planned
- Table B-5. Cap Design Investigation Locations

Tables B-1 and B-2 provide location-specific details regarding rationale for the collection, analytes, and details of sample collection; these details are to be used by the field crew. Core profiles for the vertical extent samples, which show the intervals that will be analyzed at each location, are provided as part of the Map 4-1 series. Tables B-3, B-4, and B-5 present the selected locations for the precipitate layer investigations, sheen testing, and cap design investigations, respectively.

Table B-1
Sample Location Rationale and Analytes

Location ID	RM	Area	Tidal Category	Interval Type[1]					Recovery Category	In FNC?	Shoaling Area?	Potential Vessel Scour Area?	Mudline Elev. (feet MLLW)	Rationale			Notes	Analytes by Sample Type[2,3]		
				0–10 cm	0–45 cm	0–60 cm	Shoal	Vertical Extent						Horizontal Delineation	Vertical Delineation	MNR to Benthic SCO		Surface Sediment Sample (0–10 cm)	Subsurface Sediment Sample (0–45 cm, 0–60 cm, or Shoaling Intervals)	Vertical Extent Samples
1650	1.7	35	Intertidal	x					3	No	No	No	2.7	x	-	-	Sample in riprap to be collected if possible pending results of sediment probing.	PCBs	-	-
1651	1.7	35	Subtidal	x					3	No	No	Yes	-11.5	x	-	-	-	PCBs	-	-
1652	1.8	34	Subtidal			x		x	1	No	No	Yes	-8.8	x	x	-	-	-	PCBs	PCBs
1653	1.8	34	Intertidal		x			x	3	No	No	No	-2.1	x	x	-	Target sample location is under structure; sample may be collected adjacent to the structure, based on sampleability.	-	PCBs	PCBs
1654	1.8	34	Subtidal			x		x	1	No	No	Yes	-9.8	x	x	-	-	-	PCBs	PCBs
1655	1.8	30	Subtidal			x	x	x	3	Yes	Yes	No	-20.4	x	x	-	Specific intervals to be analyzed in this side slope core will depend on review of core details following collection.[4] The core will be collected as close to a depth of -41 feet MLLW as possible, with a maximum length of ~19 feet based on method limitations.	-	PCBs	PCBs
1656	1.8	30	Subtidal			x	x	x	3	Yes	Yes	No	-18.8	x	x	-	Specific intervals to be analyzed in this side slope core will depend on results of core details review following collection.[4] The core will be collected as close to a depth of -41 feet MLLW as possible, with a maximum length of ~19 feet based on method limitations.	-	PCBs	PCBs
1657	1.9	31	Intertidal	x					3	No	No	No	-0.9	x	-	-	-	PCBs	-	-
1658	1.9	31	Intertidal	x					3	No	No	No	No data	x	-	-	-	PCBs, dioxins/furans	-	-
1659	1.9	31	Subtidal					x	3	No	No	Yes	No data	-	x	-	Specific intervals to be analyzed in this core will depend on review of core details following collection (approximately -25 feet MLLW and below).[4]	-	-	PCBs, dioxins/furans
1660	1.9	-	Intertidal	x					3	No	No	No	-2.2	-	-	x	Reoccupation of LDW-SS2122-U (2011 sample with BBP benthic SCO EF = 1.1)	phthalates	-	-
1661	1.9	30	Subtidal					x	3	Yes	Yes	No	-19.7	-	x	-	The core will be collected as close to a depth of -41 feet MLLW as possible, with a maximum length of ~19 feet based on method limitations.	-	-	PCBs, dioxins/furans
1662	2.0	31	Subtidal					x	3	No	No	Yes	-6.4	-	x	-	Specific intervals to be analyzed in this core will depend on review of core details following collection.[4]	-	-	PCBs, dioxins/furans
1663	2.0	31	Subtidal					x	2	No	No	Yes	-10.9	-	x	-	Specific intervals to be analyzed in this core will depend on review of core details following collection.[4]	-	-	PCBs, dioxins/furans
1664	2.0	31	Intertidal	x	x				3	No	No	No	-2.6	x	-	-	-	PCBs, dioxins/furans	PCBs, dioxins/furans	-
1665	2.0	31	Intertidal	x					3	No	No	No	No data	x	-	-	-	PCBs, dioxins/furans	-	-
1666	2.0	30	Subtidal					x	1	Yes	Yes	No	-23.7	-	x	-	Specific intervals to be analyzed in this core will depend on review of core details following collection.[4]	-	-	PCBs, dioxins/furans
1667	2.0	30	Subtidal					x	3	Yes	Yes	No	-20.2	-	x	-	-	-	-	PCBs

Location ID	RM	Area	Tidal Category	Interval Type[1]					Recovery Category	In FNC?	Shoaling Area?	Potential Vessel Scour Area?	Mudline Elev. (feet MLLW)	Rationale			Notes	Analytes by Sample Type[2,3]		
				0–10 cm	0–45 cm	0–60 cm	Shoal	Vertical Extent						Horizontal Delineation	Vertical Delineation	MNR to Benthic SCO		Surface Sediment Sample (0–10 cm)	Subsurface Sediment Sample (0–45 cm, 0–60 cm, or Shoaling Intervals)	Vertical Extent Samples
1668	2.0	29	Subtidal	tox					3	No	No	Yes	-6.9	x	-	-	Sample collection for toxicity testing at Phase I location LDW23-SS1077 (BBP EF = 10)	toxicity test	-	-
1669	2.1	-	Intertidal	x					3	No	No	No	-1.9	-	-	x	Reoccupation of LDW-SS2512-A (2011 sample with BBP benthic SCO EF = 1.3)	PCBs, phthalates	-	-
1670	2.1	27	Intertidal	x					3	No	No	No	-3.3	x	-	-	-	PCBs	-	-
1671	2.1	27	Subtidal	x					2	No	No	Yes	-12.1	x	-	-	-	PCBs	-	-
1672	2.2	26	Intertidal	x					2	No	No	No	-2.6	x	-	-	-	PCBs, dioxins/furans, metals, mercury, PAHs, phthalates, other SVOCs	-	-
1673	2.2	26	Intertidal	x	x				2	No	No	No	No data	x	-	-	The 0–45-cm interval for this core will be analyzed for metals, mercury, PAHs, phthalates, and other SVOCs (even though there are no applicable RALs, apart from cPAHs and arsenic) as part of characterizing vertical extent at this location.	PCBs, dioxins/furans, metals, mercury, PAHs, phthalates, other SVOCs	PCBs, dioxins/furans, metals, mercury, PAHs, phthalates, other SVOCs (for vertical extent)	-
1674	2.2	26	Intertidal	x	x				2	No	No	No	No data	x	-	-	Reoccupation of Sea Tac Marine-3 (exceedances for BBP, 2,4dimethylphenol, dioxin/furans, cPAHs, zinc, and PAHs). The 0–45 cm interval for this core will be analyzed for metals, mercury, PAHs, phthalates, and other SVOCs (even though there are no applicable RALs, apart from cPAHs and arsenic) as part of characterizing vertical extent at this location.	PCBs, dioxins/furans, metals, mercury, PAHs, phthalates, other SVOCs	PCBs, dioxins/furans, metals, mercury, PAHs, phthalates, other SVOCs (for vertical extent)	-
1675	2.2	24/27	Intertidal	x					3	No	No	No	-1.6	x	-	-	-	PCBs	-	-
1676	2.2	24/27	Intertidal	x					3	No	No	No	-1.0	x	-	-	-	PCBs	-	-
1677	2.2	24/27	Subtidal	x					2	No	No	Yes	-9.1	x	-	-	-	PCBs	-	-
1686	2.4	21	Intertidal					x	3	No	No	No	No data	-	x	-	Based on high elevation and presence of debris, it is anticipated that this core will be collected from land (pending access) using an alternate approach (e.g., sonic).	-	-	PCBs
1687	2.3	23	Subtidal			x			1	No	No	Yes	-7.7	x	-	-	-	-	PCBs	-
1688	2.3	-	Subtidal	x					3	No	No	Yes	-4.1	-	-	x	Reoccupation of LDW-SS2029-D (2011 sample with benzoic acid benthic SCO EF = 1.0)	other SVOCs	-	-
1689	2.4	20	Intertidal		x			x	3	No	No	No	-0.7	x	x	-	-	-	PCBs, dioxins/furans, PAHs	PCBs, dioxins/furans, PAHs
1690	2.4	20	Subtidal	x		x			1	No	No	Yes	-8.4	x	-	-	-	PCBs, dioxins/furans, PAHs	PCBs, dioxins/furans, PAHs	-
1691	2.4	20	Intertidal	x					3	No	No	No	-0.9	x	-	-	-	PCBs, dioxins/furans, PAHs	-	-
1692	2.5	19	Subtidal	x					1	No	No	Yes	-17.6	x	-	-	-	PCBs	-	-
1693	2.5	17	Subtidal	x					3	No	No	Yes	-7.2	x	-	-	-	dioxins/furans	-	-
1694	2.5	17	Subtidal	x					3	No	No	Yes	-6.9	x	-	-	-	dioxins/furans	-	-
1695	2.5	15	Subtidal					x	1	No	No	No	-19.4	-	x	-	Target collection in 10-foot buffer outside the FNC.	-	-	PCBs
1696	2.5	14	Subtidal					x	3	Yes	Yes	No	-10.9	-	x	-	-	-	-	PCBs

Location ID	RM	Area	Tidal Category	Interval Type[1]					Recovery Category	In FNC?	Shoaling Area?	Potential Vessel Scour Area?	Mudline Elev. (feet MLLW)	Rationale			Notes	Analytes by Sample Type[2,3]		
				0–10 cm	0–45 cm	0–60 cm	Shoal	Vertical Extent						Horizontal Delineation	Vertical Delineation	MNR to Benthic SCO		Surface Sediment Sample (0–10 cm)	Subsurface Sediment Sample (0–45 cm, 0–60 cm, or Shoaling Intervals)	Vertical Extent Samples
1697	2.6	14	Subtidal					x	3	Yes	Yes	No	-10.8	-	x	-	-	-	-	PCBs
1698	2.6	13	Subtidal			x		Hold	1	No	No	Yes	-5.6	x	Hold	-	Evaluation of interpolation-only area (analysis of vertical extent core samples will occur if RAL interval sample exceeds applicable RALs)	-	PCBs	Hold pending 0–60-cm results (PCBs)
1699	2.6	12	Intertidal		x			x	1	No	No	No	-1.8	x	x	-	-	-	PCBs	PCBs
1700	2.7	9/10/11	Subtidal			x	x		3	Yes	Yes	No	-19.2	x	-	-	-	-	PCBs	-
1701	2.7	10	Subtidal			x	x	Hold	3	Yes	Yes	No	-16.0	x	Hold	-	Evaluation of interpolation-only area (analysis of vertical extent core samples will occur if RAL interval sample(s) exceeds the applicable RALs)	-	PCBs	Hold pending 0–60-cm results (PCBs)
1702	2.7	9	Intertidal		x				3	No	No	No	No data	x	-	-	-	-	PCBs, dioxins/furans	-
1703	2.7	9	Intertidal		x				3	No	No	No	No data	x	-	-	-	-	PCBs, dioxins/furans	-
1704	2.7	9	Intertidal		x				3	No	No	No	No data	x	-	-	-	-	PCBs, dioxins/furans	-
1705	2.7	9	Intertidal	x	x				1	No	No	No	-2.0	x	-	-	-	PCBs, dioxins/furans, metals, PAHs	PCBs, dioxins/furans, metals, PAHs	-
1706	2.7	8	Subtidal	x					1	No	No	Yes	-6.4	x	-	-	-	PCBs, dioxins/furans	-	-
1707	2.7	8	Subtidal	Hold					1	No	No	Yes	-10.4	Hold	-	-	Analysis of this 0—10-cm sample will occur if nearby surface locations in Area 8 exceed applicable RALs.	Hold pending adjacent sample results (PCBs, dioxins/furans)	-	-
1708	2.7	8	Subtidal	x					1	No	No	Yes	-6.4	x	-	-	-	PCBs, dioxins/furans	-	-
1709	2.7	9	Subtidal			x	x	x	1	Yes	Yes	No	-16.1	x	x	-	-	-	PCBs	PCBs
1710	2.8	7/9	Subtidal			x	x	Hold	3	Yes	Yes	No	-18.2	x	Hold	-	Analysis of vertical extent core samples will occur if RAL interval sample(s) exceed applicable RALs	-	PCBs	Hold pending shoal results (PCBs)
1711	2.8	8	Subtidal			x		x	1	No	No	Yes	-5.1	x	x	-	-	-	PCBs, other SVOCs	PCBs, other SVOCs
1712	2.8	8	Intertidal		x			x	3	No	No	No	-2.2	x	x	-	The 0–45cm interval for this core will be analyzed for SVOCs (even though there is no applicable SVOC RAL) as part of characterizing vertical extent at this location.	-	other SVOCs (for vertical extent)	PCBs, metals, PAHs other SVOCs
1713	2.8	7/9	Subtidal			x	x		3	Yes	Yes	No	-15.3	x	-	-	-	-	PCBs	-
1714	2.8	6	Intertidal		x			x	3	No	No	No	-0.2	x	x	-	The 0–45-cm interval at the nearby location (LDW23-IT1235) was analyzed during Phase II (no RAL exceedances). The 0–45-cm interval for this core will be analyzed for SVOCs (even though there is no applicable SVOC RAL) as part of characterizing vertical extent at this location.	-	other SVOCs (for vertical extent)	PCBs, other SVOCs
1715	2.8	9	Subtidal			x	x	x	3	Yes	Yes	No	-18.2	x	x	-	-	-	PCBs, dioxins/furans, metals, PAHs	PCBs, dioxins/furans, metals, PAHs
1716	2.8	9	Subtidal					x	3	Yes	Yes	No	-18.2	-	x	-	-	-	-	PCBs, metals, PAHs
1717	2.8	9	Intertidal					x	2	No	No	No	-1.8	-	x	-	-	-	-	PCBs, metals, PAHs
1718	2.8	9	Intertidal		x			x	2	No	No	No	-2.0	x	x	-	-	-	PCBs, arsenic, cPAHs	PCBs, metals, PAHs
1719	2.8	5	Subtidal			x		x	1	No	No	Yes	-7.0	x	x	-	-	-	PCBs, metals, PAHs	PBCs, metals, PAHs

Location ID	RM	Area	Tidal Category	Interval Type[1]					Recovery Category	In FNC?	Shoaling Area?	Potential Vessel Scour Area?	Mudline Elev. (feet MLLW)	Rationale			Notes	Analytes by Sample Type[2,3]		
				0–10 cm	0–45 cm	0–60 cm	Shoal	Vertical Extent						Horizontal Delineation	Vertical Delineation	MNR to Benthic SCO		Surface Sediment Sample (0–10 cm)	Subsurface Sediment Sample (0–45 cm, 0–60 cm, or Shoaling Intervals)	Vertical Extent Samples
1720	2.8	5	Intertidal	x					3	No	No	No	No data	x	-	-	-	PCBs	-	-
1721	2.8	-	Subtidal	x					2	No	No	Yes	-9.0	-	-	x	Reoccupation of DENW6721-SSED-07-2014 (2014 sample with benzoic acid benthic SCO EF = 1.8)	other SVOCs	-	-
1722	2.8	4	Subtidal					x	1	No	No	Yes	-17.2	-	x	-	-	-	-	PBCs
1723	2.8	4	Subtidal			x			1	No	No	Yes	-15.1	x	-	-	-	-	PCBs	-
1724	2.9	2	Subtidal					x	1	Yes	No	Yes	-17.4	-	x	-	-	-	-	PBCs
1725	2.9	2	Subtidal			x			1	Yes	No	Yes	-16.2	x	-	-	-	-	PCBs	-
1726	2.9	1	Subtidal			x			1	Yes	No	Yes	-15.9	x	-	-	-	-	PCBs	-
1727	2.9	1	Subtidal			x		x	1	Yes	No	Yes	-17.2	x	x	-	-	-	PCBs	PCBs
1728	3.0	1	Subtidal			x			1	Yes	No	Yes	-16.8	x	-	-	-	-	PCBs	-

Notes:
1. An "x" indicates a sample that will be analyzed upon collection; "hold" indicates a sample that will be analyzed pending results of RAL interval samples.
2. The columns indicating analytes by sample type use green shading to show that sample intervals will be collected. A dash (-) and no shading indicates that a sample will not be collected.
3. All samples will be analyzed for TOC.
4. These vertical extent samples will be submitted to the analytical laboratory on hold. Analysis of specific intervals will follow a review of core collection details (i.e., sampling location relative to dredge prism and field-collected mudline elevation) by the design team.

BBP: benzyl butyl phthalate
cm: centimeter
cPAH: carcinogenic polycyclic aromatic hydrocarbon
EF: exceedance factor
FNC: Federal Navigation Channel
ID: identification
MLLW: mean lower low water
MNR: monitored natural recovery
PAH: polycyclic aromatic hydrocarbon
PCB: polychlorinated biphenyl
RAL: remedial action level
RM: river mile
SCO: sediment cleanup objective
SVOC: semivolatile organic compound
TOC: total organic carbon

Table B-2
Sample Location Details

Location ID	RM	Area	Tidal Category	Interval Type					Estimated No. of Samples	Reoccu-pation?	Toxicity Test?	In the FNC?	Mudline Elevation (feet MLLW)	Vertical Extent or Shoaling Core Details				Estimated Shoal Thickness (feet)	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 (feet)		X	Y	Longitude	Latitude
1650	1.7	35	Intertidal	x					1	-	-	No	2.7	-	-	-	-	-	1269450	202908	-122.33552	47.54634
1651	1.7	35	Subtidal	x					1	-	-	No	-11.5	-	-	-	-	-	1269307	202830	-122.33607	47.54612
1652	1.8	34	Subtidal			x		x	11	-	-	No	-8.8	Berthing area	-12 feet MLLW	-21 feet MLLW	12.2	-	1269221	202658	-122.33642	47.54565
1653	1.8	34	Intertidal		x			x	7	-	-	No	-2.1	Intertidal	-	7.5-foot core	7.5	-	1269235	202607	-122.33636	47.54551
1654	1.8	34	Subtidal			x		x	11	-	-	No	-9.8	Berthing area	-12 feet MLLW	-21 feet MLLW	11.3	-	1269180	202566	-122.33658	47.54539
1655	1.8	30	Subtidal			x	x	x	13	-	-	Yes	-20.4	In the FNC	RM 0 to RM 2 (-30 feet MLLW)	-41 feet MLLW	23	9.5	1269104	202340	-122.33687	47.54477
1656	1.8	30	Subtidal			x	x	x	13	-	-	Yes	-18.8	In the FNC	RM 0 to RM 2 (-30 feet MLLW)	-41 feet MLLW	22.2	11.2	1269149	202208	-122.33666	47.54440
1657	1.9	31	Intertidal	x					1	-	-	No	-0.9	-	-	-	-	-	1269318	202077	-122.33598	47.54406
1658	1.9	31	Intertidal	x					1	-	-	No	No data	-	-	-	-	-	1269369	202003	-122.33577	47.54386
1659	1.9	31	Subtidal					x	17	-	-	No	No data	Other subtidal	-	19-foot core	19	-	1269353	201937	-122.33582	47.54367
1660	1.9	-	Intertidal	x					1	Yes	-	No	-2.2	-	-	-	-	-	1269072	201762	-122.33696	47.54318
1661	1.9	30	Subtidal					x	13	-	-	Yes	-19.7	In the FNC	RM 0 to RM 2 (-30 feet MLLW)	-41 feet MLLW	21.3	-	1269254	201729	-122.33620	47.54310
1662	2.0	31	Subtidal					x	17	-	-	No	-6.4	Other subtidal	-	19-foot core	19	-	1269543	201772	-122.33505	47.54323
1663	2.0	31	Subtidal					x	17	-	-	No	-10.9	Berthing area	-	-30 feet MLLW	19.1	-	1269528	201725	-122.33511	47.54311
1664	2.0	31	Intertidal	x	x				2	-	-	No	-2.6	-	-	-	-	-	1269593	201757	-122.33484	47.54320
1665	2.0	31	Intertidal	x					1	-	-	No	No data	-	-	-	-	-	1269635	201764	-122.33468	47.54322
1666	2.0	30	Subtidal					x	8	-	-	Yes	-23.7	In the FNC	RM 0 to RM 2 (-30 feet MLLW)	-37 feet MLLW	17.3	-	1269480	201662	-122.33530	47.54293
1667	2.0	30	Subtidal					x	9	-	-	Yes	-20.2	In the FNC	RM 0 to RM 2 (-30 feet MLLW)	-37 feet MLLW	16.8	-	1269402	201573	-122.33559	47.54268
1668	2.0	29	Subtidal	tox					-	-	Yes	No	-6.9	-	-	-	-	-	1269839	201584	-122.33384	47.54273
1669	2.1	-	Intertidal	x					1	Yes	-	No	-1.9	-	-	-	-	-	1269595	201038	-122.33478	47.54123
1670	2.1	27	Intertidal	x					1	-	-	No	-3.3	-	-	-	-	-	1269739	201098	-122.33419	47.54139
1671	2.1	27	Subtidal	x					1	-	-	No	-12.1	-	-	-	-	-	1269854	200952	-122.33371	47.54100
1672	2.2	26	Intertidal	x					1	-	-	No	-2.6	-	-	-	-	-	1270776	201465	-122.33003	47.54246
1673	2.2	26	Intertidal	x	x				2	-	-	No	No data	-	-	-	-	-	1270781	201432	-122.33001	47.54237
1674	2.2	26	Intertidal	x	x				2	Yes	-	No	No data	-	-	-	-	-	1270811	201456	-122.32989	47.54244
1675	2.2	24/27	Intertidal	x					1	-	-	No	-1.6	-	-	-	-	-	1270185	200492	-122.33234	47.53975
1676	2.2	24/27	Intertidal	x					1	-	-	No	-1.0	-	-	-	-	-	1270230	200439	-122.33216	47.53962
1677	2.2	24/27	Subtidal	x					1	-	-	No	-9.1	-	-	-	-	-	1270277	200527	-122.33196	47.53986
1686	2.4	21	Intertidal					x	6	-	-	No	No data	Intertidal	-	7.5-foot core	7.5	-	1270679	199947	-122.33031	47.53829
1687	2.3	23	Subtidal			x			1	-	-	No	-7.7	-	-	-	-	-	1270992	200315	-122.32905	47.53931
1688	2.3	-	Subtidal	x					1	Yes	-	No	-4.1	-	-	-	-	-	1271059	200381	-122.32880	47.53950
1689	2.4	20	Intertidal		x			x	7	-	-	No	-0.7	Intertidal	-	7.5-foot core	-	-	1271206	200161	-122.32819	47.53891

Location ID	RM	Area	Tidal Category	Interval Type					Estimated No. of Samples	Reoccu-pation?	Toxicity Test?	In the FNC?	Mudline Elevation (feet MLLW)	Vertical Extent or Shoaling Core Details				Estimated Shoal Thickness (feet)	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 (feet)		X	Y	Longitude	Latitude
1690	2.4	20	Subtidal	x		x			2	-	-	No	-8.4	-	-	-	-	-	1271230	200060	-122.32809	47.53863
1691	2.4	20	Intertidal	x					1	-	-	No	-0.9	-	-	-	-	-	1271310	200022	-122.32776	47.53853
1692	2.5	19	Subtidal	x					1	-	-	No	-17.6	-	-	-	-	-	1271318	199814	-122.32769	47.53796
1693	2.5	17	Subtidal	x					1	-	-	No	-7.2	-	-	-	-	-	1271208	199486	-122.32813	47.53706
1694	2.5	17	Subtidal	x					1	-	-	No	-6.9	-	-	-	-	-	1271243	199454	-122.32798	47.53697
1695	2.5	15	Subtidal					x	8	-	-	No	-19.4	Other subtidal	-	10-foot core	10	-	1271444	199585	-122.32718	47.53734
1696	2.5	14	Subtidal					x	13	-	-	Yes	-10.9	In the FNC	RM 2 to RM 2.8 (-20 feet MLLW)	-31 feet MLLW	21.4	-	1271427	199412	-122.32724	47.53687
1697	2.6	14	Subtidal					x	13	-	-	Yes	-10.8	In the FNC	RM 2 to RM 2.8 (-20 feet MLLW)	-31 feet MLLW	20.2	-	1271569	199310	-122.32664	47.53659
1698	2.6	13	Subtidal			x		Hold	9	-	-	No	-5.6	Other subtidal	-	10-foot core	10	-	1271761	199468	-122.32589	47.53704
1699	2.6	12	Intertidal		x			x	7	-	-	No	-1.8	Intertidal	-	7.5-foot core	7.5	-	1271932	199230	-122.32518	47.53639
1700	2.7	9/10/11	Subtidal			x	x		3	-	-	Yes	-19.2	In the FNC (shoal only)	RM 2 to RM 2.8 (-20 feet MLLW)	-24 feet MLLW	4.8	0.8	1271964	199022	-122.32503	47.53583
1701	2.7	10	Subtidal			x	x	Hold	12	-	-	Yes	-16.0	In the FNC	RM 2 to RM 2.8 (-20 feet MLLW)	-31 feet MLLW	15.1	4.1	1271963	198893	-122.32503	47.53547
1702	2.7	9	Intertidal		x				1	-	-	No	No data	-	-	-	-	-	1272105	199146	-122.32447	47.53617
1703	2.7	9	Intertidal		x				1	-	-	No	No data	-	-	-	-	-	1272154	199096	-122.32427	47.53604
1704	2.7	9	Intertidal		x				1	-	-	No	No data	-	-	-	-	-	1272199	199039	-122.32408	47.53588
1705	2.7	9	Intertidal	x	x				1	-	-	No	-2.0	-	-	-	-	-	1272269	198920	-122.323789	47.535561
1706	2.7	8	Subtidal	x					1	-	-	No	-6.4	-	-	-	-	-	1272065	198631	-122.32459	47.53476
1707	2.7	8	Subtidal	Hold					1	-	-	No	-10.4	-	-	-	-	-	1272127	198652	-122.32433	47.53482
1708	2.7	8	Subtidal	x					1	-	-	No	-6.4	-	-	-	-	-	1272109	198597	-122.32441	47.53467
1709	2.7	9	Subtidal			x	x	x	12	-	-	Yes	-16.1	In the FNC	RM 2 to RM 2.8 (-20 feet MLLW)	-31 feet MLLW	14.9	3.9	1272180	198692	-122.32413	47.53493
1710	2.8	7/9	Subtidal			x	x	Hold	11	-	-	Yes	-18.2	In the FNC	RM 2 to RM 2.8 (-20 feet MLLW)	-31 feet MLLW	12.8	1.8	1272332	198587	-122.32351	47.53465
1711	2.8	8	Subtidal			x		x	9	-	-	No	-5.1	Other subtidal	-	10-foot core	10	-	1272270	198454	-122.32375	47.53429
1712	2.8	8	Intertidal		x			x	7	-	-	No	2.2	Intertidal	-	7.5-foot core	7.5	-	1272339	198380	-122.32345	47.53408
1713	2.8	7/9	Subtidal			x	x		3	-	-	Yes	-15.3	In the FNC	RM 2 to RM 2.8 (-20 feet MLLW)	-24 feet MLLW	8.7	4.7	1272458	198445	-122.32297	47.53426
1714	2.8	6	Intertidal		x			x	7	-	-	No	-0.2	Intertidal	-	7.5-foot core	7.5	-	1272451	198299	-122.32301	47.53387
1715	2.8	9	Subtidal			x	x	x	11	-	-	Yes	-18.2	In the FNC	RM 2 to RM 2.8 (-20 feet MLLW)	-31 feet MLLW	12.8	1.8	1272374	198683	-122.32333	47.53491
1716	2.8	9	Subtidal					x	11	Yes	-	Yes	-18.2	In the FNC	RM 2 to RM 2.8 (-20 feet MLLW)	-31 feet MLLW	12.9	-	1272511	198572	-122.32277	47.53462
1717	2.8	9	Intertidal					x	6	-	-	No	-1.8	Intertidal	-	7.5-foot core	7.5	-	1272553	198672	-122.32262	47.53490
1718	2.8	9	Intertidal		x			x	7	-	-	No	-2.0	Intertidal	-	7.5-foot core	7.5	-	1272648	198646	-122.32224	47.53483
1719	2.8	5	Subtidal			x		x	9	-	-	No	-7.0	Other subtidal	-	10-foot core	10	-	1272726	198623	-122.32192	47.53477
1720	2.8	5	Intertidal	x					1	-	-	No	No data	-	-	-	-	-	1272738	198645	-122.32187	47.53483
1721	2.8	-	Subtidal	x					1	Yes	-	No	-9.0	-	-	-	-	-	1272842	198606	-122.32145	47.53473

Location ID	RM	Area	Tidal Category	Interval Type					Estimated No. of Samples	Reoccu-pation?	Toxicity Test?	In the FNC?	Mudline Elevation (feet MLLW)	Vertical Extent or Shoaling Core Details				Estimated Shoal Thickness (feet)	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 (feet)		X	Y	Longitude	Latitude
1722	2.8	4	Subtidal					x	8	-	-	No	-17.2	Other subtidal	-	10-foot core	10	-	1272728	198409	-122.32189	47.53419
1723	2.8	4	Subtidal			x			1	-	-	No	-15.1	-	-	-	-	-	1272750	198470	-122.32179	47.53435
1724	2.9	2	Subtidal					x	7	-	-	Yes	-17.4	In the FNC	RM 2.8 to RM 4.7 (-15 feet MLLW)	-26 feet MLLW	8.6	-	1272828	198176	-122.32147	47.53355
1725	2.9	2	Subtidal			x			1	-	-	Yes	-16.2	-	-	-	-	-	1272820	198121	-122.32150	47.53340
1726	2.9	1	Subtidal			x			1	-	-	Yes	-15.9	-	-	-	-	-	1272985	197970	-122.32082	47.53300
1727	2.9	1	Subtidal			x		x	7	-	-	Yes	-17.2	In the FNC	RM 2.8 to RM 4.7 (-15 feet MLLW)	-26 feet MLLW	8.8	-	1273089	197940	-122.32039	47.53292
1728	3.0	1	Subtidal			x			1	-	-	Yes	-16.8	-	-	-	-	-	1273137	197842	-122.32019	47.53265

Notes:
1. An "x" indicates a sample that will be analyzed upon collection; "hold" indicates a sample that will be analyzed pending results of RAL interval samples.
FNC: Federal Navigation Channel
ID: identification
MLLW: mean lower low water
RAL: remedial action level
RM: river mile

Table B-3
Precipitate Layer Investigation Locations

Precipitate Layer Location ID	RM	Area	Tidal Category	Mudline Elevation (feet MLLW)	Sampling Objective		Notes	Target Coordinates			
					Precipitate Layer Thickness	Vertical Extent Core[1]		X	Y	Longitude	Latitude
1678	2.2	24	Intertidal	4.5	x		-	1269820	200366	-122.33380	47.53939
1679	2.2	24	Intertidal	7.4	x	x	Target location for vertical extent core to be analyzed for PCBs and mercury (target elevation of -5 feet MLLW)	1269861	200365	-122.33364	47.53939
1680	2.2	24	Intertidal	4.1	x		-	1269876	200344	-122.33357	47.53933
1681	2.2	24	Intertidal	7.9	x		-	1269903	200358	-122.33347	47.53937
1682	2.2	24	Intertidal	6.2	x		-	1269931	200343	-122.33335	47.53933
1683	2.2	24	Intertidal	8.4	x	x	Target location for vertical extent core to be analyzed for PCBs and mercury (target elevation of -5 feet MLLW)	1269945	200356	-122.33330	47.53937
1684	2.2	24	Intertidal	3.8	x	x	Target location for vertical extent core to be analyzed for PCBs and mercury (target elevation of -5 feet MLLW)	1270023	200363	-122.33298	47.53939
1685	2.2	24	Intertidal	2.7	x		-	1270083	200363	-122.33274	47.53940

Notes:
1. If vertical extent cores are successfully collected, sample IDs will use a "PL" prefix (i.e., rather than IT) to indicate cores collected under the precipitate layer.
ID: identification
MLLW: mean lower low water
PCB: polychlorinated biphenyl
RM: river mile

Table B-4
Sheen Testing Locations for RAAs where Dredging Is Planned

RAA	Dredge Elevation or Thickness from 30% RD	Selection of Representative Location for Sheen Testing			
		Phase III Location for Sheen Testing	Phase III Interval to be Tested	Archive Phase II Sample for Sheen Testing	Rationale for Selected Location/Interval
1A	-21.5 feet MLLW	SC1727 (vertical)	TBD,[1] above -21.5 feet MLLW	--	Phase III location within RAA 1A/1B. Selected interval for sheen testing will be determined in the field and will be within the dredge elevation in 30% RD.
1B	-24 feet MLLW				
2	2-foot thickness cut (estimated; see notes)	SC1724 (vertical)	A	--	Phase III location within RAA. Dredge thickness TBD based on Phase III results; selected interval for sheen testing (A) is based on dredge thickness in 30% RD.
4	2-foot thickness cut (estimated; see notes)	SC1722 (vertical)	A	--	Phase III location within RAA. Dredge thickness TBD based on Phase III results. Selected interval for sheen testing (A) based on dredge thickness in 30% RD.
5B	3-foot thickness cut (estimated; see notes)	SC1719 (vertical)	TBD,[1] within top 3 feet (A or B)	--	Phase III location within RAA. Dredge thickness TBD based on Phase III results. Potential intervals for sheen testing (A or B) based on dredge thickness in 30% RD; specific interval will be determined in the field.
6	0.5-foot thickness cut (estimated; see notes)	IT1714 (vertical)	A	--	Phase III location within RAA. Dredge thickness TBD based on Phase III results; selected interval for sheen testing (A) is based on dredge thickness in 30% RD.
7	-19 feet MLLW	None	--	SC1563C (vertical)	No Phase III sample, so archive Phase II location identified within RAA. Interval C selected at random (intervals A through F within dredge cut in 30% RD).
8A	0.5-foot thickness cut	None	--	SS1564 (0–10 cm)	No Phase III sample, so archive Phase II location identified within RAA. Selected interval for testing (0–10-cm sample) is based on dredge thickness in 30% RD (surface-only exceedance).
8B	4.5-foot thickness cut	SC1712 (vertical)	TBD,[1] within top 4.5 feet (A, B, C or D)	--	Phase III location within RAA. Potential intervals for sheen testing (A through D) based on dredge thickness in 30% RD; specific interval will be determined in the field.
8D	1.5-foot thickness cut	SC1709 (vertical)	A	--	Phase III location just outside of RAA 8D (also being used to evaluate potential sheen presence for RAA 9J). Interval A was selected for testing to be representative of dredge depth at RAA 8D and dredge elevation at RAA 9J in 30% RD.
8E	2.5-foot thickness cut	None	--	IT1528A (vertical)	No Phase III sample, so archive Phase II location identified within RAA. Sheen floret noted at depth (interval I), so the lowest interval within the dredge cut in 30% RD was selected for testing (interval B).
8F	5.5-foot thickness cut	None	--	IT1527A (vertical)	No Phase III sample, so archive Phase II location identified within RAA. Interval A with highest concentration cPAH in dredge cut.
9A	4.5-foot thickness cut	IT1718 (vertical)	TBD,[1] within top 4.5 feet (A, B, C, or D)	--	Phase III location just outside of RAA. Potential intervals for sheen testing (A through D) based on dredge thickness in 30% RD; specific interval for sheen testing will be determined in the field.
9B	3-foot thickness cut (estimated; see notes)	IT1717 (vertical)	TBD,[1] within top 3 feet (A or B)	--	Phase III location in RAA. Dredge thickness TBD based on Phase III results. Potential intervals for sheen testing (A or B) based on dredge thickness in 30% RD; specific interval for sheen testing will be determined in the field.
9C	2.5-foot thickness cut	None	--	IT1552A (vertical)	No Phase III sample, so archive Phase II location identified within RAA. Interval A selected at random (intervals A and B are within anticipated dredge cut)
9D	4-foot thickness cut	None	--	IT1551A (vertical)	No Phase III sample, so archive Phase II locations identified within RAA 9D and just outside of RAA 9E. Interval A selected for testing to be representative of dredge depth in 30% RD for both RAA 9D and 9E.
9E	1-foot thickness cut				
9F	4-foot thickness cut	None	--	IT1543A (vertical)	No Phase III sample, so archive Phase II location identified within RAA. Interval A was selected for testing because of slight hydrocarbon-like odor noted for interval A on the sediment core processing log.
9G	-24 feet MLLW	SC1715 (vertical)	TBD,[1] above -24 feet MLLW	--	Phase III location in RAA. Selected interval for sheen testing will be determined in the field and will be within the dredge elevation in 30% RD.
9H	7-foot thickness cut	None	--	SC1544C (vertical)	No Phase III sample, so archive Phase II location identified within RAA. Interval C was selected for testing because of the hydrocarbon-like odor and iridescent sheen noted for interval C on the sediment core processing log.

RAA	Dredge Elevation or Thickness from 30% RD	Selection of Representative Location for Sheen Testing			
		Phase III Location for Sheen Testing	Phase III Interval to be Tested	Archive Phase II Sample for Sheen Testing	Rationale for Selected Location/Interval
9I	2.5-foot thickness cut	None	--	IT1522B	Phase III intertidal samples (locations 1702, 1703, 1704, and 1705) may not be representative of the final dredge area, so archive Phase II location identified within RAA. For location IT1522, faint petroleum-like odor was noted for intervals B and C on the sediment core processing log; interval B was randomly selected for testing.
9J	-29 feet MLLW	SC1709 (vertical)	A	--	Phase III location within RAA 9J (also being used to evaluate potential sheen presence at RAA 8D). Interval A was selected for testing to be representative of dredge depth at RAA 8D and dredge elevation at RAA 9J in 30% RD.
9K	-22 feet MLLW	SC1716 (vertical)	TBD,[1] above -22 feet MLLW	--	Phase III location within RAA. Selected interval for sheen testing will be determined in the field and will be within the dredge elevation in 30% RD.
10	NA (see notes)	SC1701 (0–60 cm)	A	--	Phase III location within RAA. No remedial technology was assigned to this interpolation-only area in 30% RD. Phase III sampling will determine whether remediation is needed in this area. Sheen testing will be conducted for interval A to provide information in the event that dredging is required.
11	-29 feet MLLW	None	--	SC1503G (vertical)	No Phase III sample, so archive Phase II location identified within RAA. Interval G was selected at random (intervals A through I within dredge elevation in 30% RD; note that interval A is shoaled material and interval B is the overdredge interval).
12	1.5-foot thickness cut (estimated; see notes)	IT1699 (vertical)	A	--	Phase III location within RAA. Dredge thickness TBD based on Phase III results. Selected interval for sheen testing (A) based on dredge thickness presented in 30% RD.
13	NA (see notes)	SC1698 (0–60 cm)	A	--	Phase III location within RAA. No remedial technology was assigned to this interpolation-only area in 30% RD. Phase III sampling will determine whether remediation is needed in this area. Sheen testing will be conducted for interval A to provide information in the event that dredging is required.
14	-29 feet MLLW	SC1696 (vertical)	TBD,[1] above -29 feet MLLW	--	Phase III location within RAA. Selected interval for sheen testing will be determined in the field and will be within the dredge elevation in 30% RD.
15A	-22 feet MLLW	SC1695 (vertical)	TBD,[1] above -22 ft MLLW	--	Phase III location at edge of RAA 15B and adjacent to 15A. Selected interval for sheen testing will be determined in the field and will be within the dredge elevation in 30% RD.
15B	-26 feet MLLW				
16	1-foot thickness cut	None	--	None	No additional data have been collected within this RAA since Phase I. Dredge area based on surface-only exceedance from Phase I. No sheen testing proposed for this RAA. Information from nearby RAAs will be used to inform the potential production of sheen during dredging.
17	1-foot thickness cut	SS1693 (0-10 cm)	0–10-cm sample	--	Phase III location within RAA. Because dredge area is based on a surface-only exceedance (LDW18-5thAveS), the selected Phase III surface sediment sample is considered representative of the dredge area.
18	1-foot thickness cut	None	--	None	No additional data have been collected within this RAA since Phase I. Dredge area based on surface only exceedance from Phase I. No sheen testing proposed for this RAA. Information from nearby RAAs will be used to inform the potential production of sheen during dredging.
19	1-foot thickness cut	None	--	SS1479 (0-10 cm)	No Phase III sample, so archive Phase II location identified within RAA. Because dredge area is based on a surface-only exceedance (SS1171), the selected Phase II surface sediment sample is considered representative of the dredge area.
20B	0.5-foot thickness cut	None	--	SC1468A (vertical)	No Phase III sample, so archive Phase II location identified within RAA 20C and adjacent to 20B. Sheen noted at SC1468 at depth (interval S). Interval A selected for testing based on dredge thickness in 30% RD for both RAA 20B and 20C.
20C	3-foot thickness cut				
20-south	NA (see notes)	IT1689 (vertical)	TBD[1]	--	No remedial technology was assigned to this interpolation-only area south of RAA 20A/B/C in 30% RD. Phase III sampling will determine whether dredging is needed in this area. Selected interval for sheen testing will be determined in the field.
21A	4-foot thickness cut (estimated; see notes)	IT1686 (vertical)	TBD,[1] within top 4 feet (A, B, or C)	--	Phase III location within RAA. Dredge thickness to be determined based on Phase III results. Potential intervals for sheen testing (A, B, or C) based on dredge thickness in 30% RD; specific interval will be determined in the field.
21C	0.5-foot thickness cut	None	--	IT1448A (vertical)	No Phase III sample, so archive Phase II location identified within RAA. Selected interval for testing (interval A) is based on dredge thickness in 30% RD (surface-only exceedance).
22	-29 feet MLLW	None	--	SC1431F (vertical)	No Phase III sample, so archive Phase II location identified within RAA. Location and interval for testing selected at random from potential options within dredge cut (potential locations/intervals included the following: 1431A-I [interval A is shoal, B is overdredge], 1409A-J [intervals A and B are shoal, C is overdredge]; 1460A-I [interval A is shoal, B is overdredge])

RAA	Dredge Elevation or Thickness from 30% RD	Selection of Representative Location for Sheen Testing			
		Phase III Location for Sheen Testing	Phase III Interval to be Tested	Archive Phase II Sample for Sheen Testing	Rationale for Selected Location/Interval
23A	-20 feet MLLW	None	--	SC1433B (verticals)	No Phase III sample, so archive Phase II location identified within RAA. Location and interval selected for testing based on odor noted on sediment core processing log (slight petroleum odor and tar paper noted in interval B).
24B	2-foot thickness cut	None selected (see notes)	--	--	RAAs within the Inlet at RM 2.2 have known potential for production of sheen based on Phase II field observations. Phase II locations with petroleum-like odor and/or sheen observed include locations within RAA 24C (1600, 1601, 603, 1604,1605, 1606, 1607, and 1610) and RAA 24D (1596, 1598, 1611, and 1612). Because sheen producing material is already known to be present, additional sheen testing is not needed.
24C	-2 feet MLLW				
24D	-3 feet MLLW				
24E	3.5-foot thickness cut	None	--	IT1594A (vertical)	No Phase III sample, so archive Phase II location identified within RAA 24G and near RAAs 24E and 24F. Interval A was selected because moderate petroleum-like odor was noted for this interval on the sediment core processing log. Phase II verticals at 24E (1595) and 24F (1593) had no sheen or odor noted on the sediment core processing logs.
24F	1.5-foot thickness cut				
24G	4.5-foot thickness cut				
24H	1.5-foot thickness cut	None	--	IT1428A (vertical)	No Phase III sample, so archive Phase II location identified within RAA 24I and adjacent to RAA 24H. Interval A (0-45 cm) was selected for testing; within dredge cut for both RAAs based on 30% RD.
24I	4-foot thickness cut				
24J	1-foot thickness cut	SS1676 (0-10 cm)	0-10 cm sample	--	Phase III location on edge of RAA. Because dredge area is based on a surface-only exceedance from Phase I (IT1127) the use of the Phase III surface sample is considered representative of the material that may be dredged.
27A	2.5-foot thickness cut	None	--	IT1411B (vertical)	No Phase III sample, so archive Phase II location identified within RAA. Interval B was selected at random (intervals A and B within dredge cut based on 30% RD). It is uncertain whether the Phase III sample in RAA 28A will be representative of the material to be dredged (0-10 cm sample at SS1673).
27C	3.5-foot thickness cut	None	--	IT1404C (vertical)	No Phase III sample, so archive Phase II location identified within RAA. Interval C selected for testing at random (intervals A through C within dredge cut based on 30% RD)
29	0.5-foot thickness cut	SS1668 (toxicity, 0-10 cm)	0-10 cm sample	--	Phase III location within RAA. Selection of Phase III surface sediment sample is based on dredge thickness in 30% RD (surface-only exceedance).
30B	-29 feet MLLW	None	--	SC1385A (vertical)	No Phase III sample, so archive Phase II location identified within RAA. Interval A is only interval within dredge elevation based on 30% RD, and thus was selected for testing.
30C	-35 feet MLLW	SC1666 (vertical)	TBD[1], interval to be above -35 ft MLLW	--	Phase III location within RAA 30C and near 30D. Selected interval for sheen testing will be determined in the field and will be within the dredge elevation.
30D	-39 feet MLLW				
30E	-39 feet MLLW	SC1661 (vertical)	TBD[1], interval to be above -39 ft MLLW	--	Phase III location within RAA. Selected interval for sheen testing will be determined in the field and will be within the dredge elevation in 30% RD.
30F	-39 feet MLLW	SC1655 and SC1656 (verticals)	TBD[1], interval to be above -39 ft MLLW	--	Phase III locations within RAA. Selected interval for sheen testing for each vertical core will be determined in the field and will be within the dredge elevation. Two locations were selected because a slight petroleum odor was noted in sediment core processing logs for nearby Phase II cores (SC1328 and SC1335).
31B	3H:1V side slope, beginning 15 feet inside the FNC boundary	SC1662 (vertical)	TBD[1], interval to be within top 10 ft	--	Phase III location within RAA. Selected interval for sheen testing will be determined in the field and will be within the dredge elevation in 30% RD. This location is also being considered representative of material in RAA 31D.
31C	3H:1V side slope cut at edge of FNC	SC1659 (vertical)	TBD[1], interval to be within top 10 ft	IT1364B (vertical)	Subtidal: Phase III location within subtidal portion of RAA. Selected interval for sheen testing will be determined in the field and will be within the dredge elevation in 30% RD. Intertidal: Phase II location was also selected to represent intertidal area within this RAA. Interval B was selected for testing because petroleum odor noted for this interval B on the sediment core processing log.
31D	3-foot thickness cut	SC1662 (vertical)	TBD[1], interval to be within top 3 ft	--	Phase III location near RAA (see sheen testing location for RAA 31B).

RAA	Dredge Elevation or Thickness from 30% RD	Selection of Representative Location for Sheen Testing			
		Phase III Location for Sheen Testing	Phase III Interval to be Tested	Archive Phase II Sample for Sheen Testing	Rationale for Selected Location/Interval
34A	-15.5 MLLW (estimated; see notes)	SC1654 (vertical)	A	--	Phase III location within RAA 34A and near RAA 34B. Dredge elevation for RAA 34A to be determined based on Phase III results. Interval A was selected for testing based on dredge depth in 30% RD for RAA 34A and 34B.
34B	2-foot thickness cut				
35A	0.5-foot thickness cut	None	--	SS1317 (0-10 cm)	A Phase III surface (0-10 cm) sample is targeted in this area; however, sample may not be sampleable due to the presence of riprap and there is uncertainty as to whether this sample will be representative of the material to be dredged. Thus, a Phase II archive surface sediment sample was identified for testing. The selection of a surface sediment sample is based on dredge thickness in 30% RD (surface-only exceedances).
36	3-foot thickness cut	None	--	SC1321A (vertical)	No Phase III sample, so archive Phase II location identified within RAA. Silver sheen bleb noted for intervals A and B on the sediment core log. Interval A was selected based on expected updated dredge thickness (to a 2-foot thickness cut)

Notes:
1. The Phase III vertical sediment core interval for testing will be determined by the field crew; interval for vertical testing will be within dredge depth/dredge elevation for a given RAA as specified in this table. An interval will be selected for sheen testing based on the following considerations as described in Section 5.9 of the QAPP Addendum: 1) visual examination of the core for the presence of sheen or non-aqueous-phase liquid (NAPL), 2) photoionization detector readings (taken at 1-foot intervals during core processing), and 3) presence of petroleum odor during processing. If no odor or sheen present, an interval within the dredge elevation and thickness will be selected at random for testing.
MLLW: mean lower low water
RD: remedial design

Table B-5
Cap Design Investigation Locations

Location ID	RAA	Location Type	Mudline (feet MLLW)	Target Coordinates	
				X	Y
LDW26-HC8B-1	8B	Vertical Hydraulic Conductivity (HC) core	-6.0	1272279	198455
LDW26-HC8B-2	8B	Vertical Hydraulic Conductivity (HC) core	-3.4	1272337	198416
LDW26-HC9A	9A	Vertical Hydraulic Conductivity (HC) core	-1.2	1272617	198667
LDW26-HC9B	9B	Vertical Hydraulic Conductivity (HC) core	2.8	1272528	198736
LDW26-HC9D	9D	Vertical Hydraulic Conductivity (HC) core	1.7	1272491	198808
LDW26-HC26	26	Vertical Hydraulic Conductivity (HC) core	-2.7	1270781	201450
LDW26-PW9A	9A	Porewater (PW) collection	-1.7	1272623	198661
LDW26-PW9B	9B	Porewater (PW) collection	2.7	1272534	198726
LDW26-PW9D	9D	Porewater (PW) collection	1.4	1272479	198804
LDW26-GC9A	9A	Geochemistry Core (GC)	-2.2	1272615	198654
LDW26-GC9B	9B	Geochemistry Core (GC)	1.2	1272525	198720
LDW26-GC9D	9D	Geochemistry Core (GC)	1.7	1272482	198792
LDW26-TC8B-1	8B	Treatability Core (TC)	-6.4	1272272	198462
LDW26-TC8B-2	8B	Treatability Core (TC)	-2.0	1272335	198406
LDW26-TC26	26	Treatability Core (TC)	-2.8	1270778	201458
LDW26-VHG8B-1	8B	Vertical Hydraulic Gradient (VHG) test	-2.9	1272277	198439
LDW26-VHG8B-2	8B	Vertical Hydraulic Gradient (VHG) test	-3.2	1272345	198407
LDW26-VHG9A	9A	Vertical Hydraulic Gradient (VHG) test	-2.0	1272610	198661
LDW26-VHG9B	9B	Vertical Hydraulic Gradient (VHG) test	1.2	1272519	198731
LDW26-VHG9D	9D	Vertical Hydraulic Gradient (VHG) test	2.0	1272493	198795
LDW26-VHG26	26	Vertical Hydraulic Gradient (VHG) test	-2.0	1270787	201456
LDW26-SR8B-1	8B	Seepage Ring (SR)	0.1	1272248	198435
LDW26-SR8B-2	8B	Seepage Ring (SR)	0.1	1272276	198422
LDW26-SR8B-3	8B	Seepage Ring (SR)	0.1	1272303	198405
LDW26-SR8B-4	8B	Seepage Ring (SR)	0.6	1272338	198391
LDW26-SR9A-1	9A	Seepage Ring (SR)	0.1	1272614	198675
LDW26-SR9B-1	9B	Seepage Ring (SR)	2.1	1272517	198744
LDW26-SR9B-2	9B	Seepage Ring (SR)	2.1	1272548	198703
LDW26-SR9B-3	9B	Seepage Ring (SR)	2.1	1272582	198690
LDW26-SR9D-1	9D	Seepage Ring (SR)	1.8	1272486	198799
LDW26-SR9D-2	9D	Seepage Ring (SR)	2.0	1272493	198773
LDW26-SR26	26	Seepage Ring (SR)	0.2	1270796	201463

Notes:
ID: identification
RAA: Remedial Action Area