

APPENDIX A. FIELD FORMS, FIELD NOTES,  
PHOTOS, COCs, AND PCB POREWATER FORMS

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## Field Forms

# SURFACE SEDIMENT COLLECTION FORM

Project Name: A003 Project no.: Surface sediment  
 Date: 2/22/18 Weather: 30s, sunny  
 Sampling Method: power grab Crew: TD, RM, KM

LOCATION		Location ID: <u>LDW18-SS-001</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0840/0845/0840</u>	<u>41.5/41.5/39.4</u>	<u>NA</u>	<u>N/N/N</u>	<u>washed out, cobbles</u>
<u>0858/0901/0905</u>	<u>38.2/45.4/44.3</u>	<u>NA/NA/16cm</u>	<u>N/N/Y</u>	<u>first 2 washed out / 3rd within 10m</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-001</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>Shell fragments, hermit crab, worm tubes, RPD: not visible</u>
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	
<u>gravel trace</u>	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt trace</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS002</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0921</u>	<u>26.6'</u>	<u>23 cm</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-002</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>shell fragments, worm tubes, leaf litter, brown surface RPD: not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Surface sediment  
 Date: 2/22/18 Weather: 30c, sunny  
 Sampling Method: power grab Crew: TD, KM, RM

LOCATION		Location ID: <u>SS-003</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom <sup>ft</sup> depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0939</u>	<u>31.7</u>	<u>20</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-003</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>worms, clam, shell fragments, plant material</u> <u>RPO: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F/M/C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-004</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom <sup>ft</sup> depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0952</u>	<u>43.3</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-004</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>worms, RPO: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F/M/C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: ADC3 Project no.: sediment sampling  
 Date: 2/22/18 Weather: 30s, sunny  
 Sampling Method: power grab Crew: TD, KM, RM

LOCATION		Location ID: <u>SS-008</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>NA</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1005/1009/1012</u>	<u>51.1/51.1/50.8</u>	<u>NA</u>	<u>N/N/N</u>	<u>rock in jaws/washed out/washed out</u>
<u>1023/1029</u>	<u>53.2/50.0</u>	<u>NA/16cm</u>	<u>N/Y</u>	<u>washed out/successful within 10 m</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-008</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>shell fragments, barnacles, broken glass</u> <u>RPD: not visible</u>  <u>collected grain size QC - one extra jar</u> <u>and field clean</u>
<u>gravel</u>	drab olive	slight	petroleum	
<u>sand (F)(M)(C)</u>	brown	moderate	other:	
silt	<u>gray dark</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-007</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>NA</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1043</u>	<u>49.7</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-007</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>crab, worms, shell fragments,</u> <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F)(M)(C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: A0C3 Project no.: sediment sampling  
 Date: 2/22/18 Weather: 30s, sunny  
 Sampling Method: pincer grab Crew: TD, KM, RM

LOCATION		Location ID: <u>SS-006</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>ft</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1056</u>	<u>46.7</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-006</u>				
Sediment type	Sediment color	Sediment odor		Comments: <u>worms, wood debris</u> <u>RPD: not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-025</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>ft</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1116</u>	<u>26.4</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-025</u>				
Sediment type	Sediment color	Sediment odor		Comments: <u>shell fragments, worms, wood debris + organic matter</u> <u>RPD: not visible</u>
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>	
gravel	drab olive	<u>slight</u>	petroleum	
<u>sand</u> (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 2/22/18 Weather: 30s, sunny  
 Sampling Method: power grab Crew: TD, KM, RM

LOCATION		Location ID: <u>SS-026</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>NA</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1125/1129</u>	<u>40.3/40.3</u>	<u>NA/NA</u>	<u>N/N</u>	<u>insufficient penetration / winnowed</u>
<u>1132</u>	<u>40.3</u>	<u>15</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-026</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>barnacles, crabs, shell fragments, worms</u> <u>RPD: not visible</u>
<u>gravel</u>	drab olive	slight	petroleum	
<u>sand (F/M/C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-027</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>NA</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1144</u>	<u>42.8</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-027</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>worms, shell fragments, organic matter</u> <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F/M/C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 2/22/18 Weather: 30s, sunny  
 Sampling Method: power grab Crew: TD, XM, RM

LOCATION		Location ID: <u>SS-032</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (mft)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1230</u>	<u>17.1</u>	<u>29</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-032</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S		<u>organic matter, shell fragments</u> <u>RPD: not visible</u>
gravel	drab olive	slight petroleum		
<u>sand (F M C)</u>	brown	moderate other:		
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-033</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (mft)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1240</u>	<u>42.9</u>	<u>17</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-033</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S		<u>trace shell fragments, worms</u> <u>RPD: not visible</u>
<u>gravel</u>	drab olive	slight petroleum		
<u>sand (F M C)</u>	brown	moderate other:		
<u>silt trace</u>	<u>gray</u>	strong		
clay	black			



# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 2/22/18 Weather: 30s. Sunny  
 Sampling Method: plunger grab Crew: TD, KM, RM

LOCATION		Location ID: <u>SS-034</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth ( <del>m</del> )	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1250</u>	<u>32.9</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-034</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>	<u>trace shell fragments, organic matter,</u> <u>Worms</u> <u>RPD: not visible</u>
<u>gravel</u>	drab olive	<u>slight</u>	petroleum	
<u>sand (F, M, C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-035</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth ( <del>m</del> )	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1258</u>	<u>37.2</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-035</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>trace organic matter, trace shell</u> <u>fragments, worms</u> <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F, M, C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: sediment sampling  
 Date: 2/22/18 Weather: 30s, Sunny  
 Sampling Method: power grab Crew: TD, KM, RM

LOCATION		Location ID: <u>SS-036</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>11.1</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1308</u>	<u>31.1</u>	<u>27</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-036</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S		<u>organic matter, trace shell fragments, worms</u> <u>RPD: not visible</u>
gravel	drab olive	slight petroleum		
<u>sand (F/M/C)</u>	brown	moderate other:		
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-037</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>11.1</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1320</u>	<u>3.7</u>	<u>24</u>	<u>Y</u>	<u>shallow water adjacent Kelleys Island</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-037</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S		<u>organic matter, trace shell fragments</u> <u>RPD: below 3 cm</u>
gravel	drab olive	slight petroleum		
<u>sand (F/M/C)</u>	<u>brown</u>	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: A0C3 Project no.: Sediment sampling  
 Date: 2/22/18 Weather: 30s, Sunny  
 Sampling Method: power grab Crew: TD, KM, RM

LOCATION		Location ID: <sup>KM</sup> <u>SS-038-042</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <sup>RM</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1342</u>	<u>18.5</u>	<u>26</u>	<u>Y</u>	<u>barge on target - collected ~18 ft away</u>
SAMPLE DATA		Sample ID: <sup>KM</sup> <u>LDW18-SS-038-042</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>organic matter, worms</u>	
gravel	<u>drab olive</u>	slight petroleum	<u>RPD: not visible</u>	
<u>sand</u> (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-043</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <sup>RM</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1351</u>	<u>23.3</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-043</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>trace organic matter, worms</u>	
gravel	drab olive	slight petroleum	<u>RPD: not visible</u>	
<u>sand</u> (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 2/22/18 Weather: 30c, Sunny  
 Sampling Method: power grab Crew: TD, KM, RN

LOCATION		Location ID: <sup>KM</sup> <u>SS-052 051</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>MA</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1410</u>	<u>12.8</u>	<u>30</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <sup>KM</sup> <u>LOW18-SS-052 051</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>organic matter, shrimp</u> <u>RPD: not visible</u>	
gravel	drab olive	slight petroleum		
<u>sand (F M C)</u>	brown	moderate other:		
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-064</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>MA</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1431</u>	<u>35.0</u>	<u>21</u>	<u>Y</u>	<u>grab 2 (grab 1 not successful) - washed out)</u>
SAMPLE DATA		Sample ID: <u>LOW18-SS-064</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>organic matter, shell fragments,</u> <u>worms</u> <u>RPD: not visible</u>	
<u>gravel</u>	drab olive	slight petroleum		
<u>sand (F M C)</u>	brown	moderate other:		
silt	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 2/22/18 Weather: 30s, sunny  
 Sampling Method: power grab Crew: TD, RM, KM

LOCATION		Location ID: <u>SS-069</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <del>ft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1441</u>	<u>32.0</u>	<u>30</u>	<u>Y</u>	<u>collected field duplicate</u>
SAMPLE DATA		Sample ID: <u>LOW18-SS-069, LOW18-SS-069-FD</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>organic matter, trace shell fragments, worms</u> <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

LOCATION		Location ID:		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <del>ft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
SAMPLE DATA		Sample ID:		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H <sub>2</sub> S	<u>1/m 2/22/18</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: surface sediment sampling  
 Date: 2/23/18 Weather: 28°F, partly sunny  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-038</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>NA</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0821</u>	<u>8.2</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-038</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>shell fragments, barnacles, trace organic matter</u>  <u>RPD: not visible</u>
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>	
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	<u>moderate</u>	other:	
<u>silt</u>	gray	strong		
clay	<u>black</u>			

LOCATION		Location ID: <u>SS-065</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>NA</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0854</u>	<u>34.4</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-065</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>WORMS</u>  <u>RPD: not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	<u>black</u>			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 2/23/18 Weather: 28°F, partly sunny  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-067</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <del>mft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0920</u>	<u>40.9</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-067</u>				
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>trace shell fragments, rhen</u>  <u>RPD: 0-7 cm</u>	
gravel	drab olive	slight petroleum		
<u>sand (F M C)</u>	brown	moderate other:		
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-068</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <del>mft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0936</u>	<u>32.5</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-068</u>				
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>organic matter, mussel</u>  <u>RPD: not visible</u>	
gravel	drab olive	slight petroleum		
<u>sand (F M C)</u>	brown	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 2/23/18 Weather: 30° F, cloudy  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-106</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <del>mft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0956</u>	<u>26.6</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-106</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> <u>KM</u>	<u>H<sub>2</sub>S</u>	<u>organic matter</u>
gravel	drab olive	<u>slight</u>	petroleum	<u>RPD: not visible</u>
<u>sand</u> (F) (M) (C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u> <u>dark</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-107</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <del>mft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1018</u>	<u>14.5</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-107</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>organic matter, wood debris,</u>
gravel	drab olive	slight	petroleum	<u>WORMS</u>
<u>sand</u> (F) (M) (C)	brown	moderate	other:	<u>RPD: not visible</u>
<u>silt</u>	<u>gray</u> <u>dark</u>	strong		
clay	black			



# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 2/27/18 Weather: 30°F, cloudy  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-108</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (mft)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1054</u>	<u>25.8</u>	<u>29</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-108</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>organic matter, worms</u>  <u>RPD: not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

LOCATION		Location ID: <u>SS-109</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (mft)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1104</u>	<u>27.9</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-109</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>shell fragments, trace organic matter</u>  <u>RPD: not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: sediment sampling  
 Date: 2/23/18 Weather: 32°F, cloudy  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-110</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (mft)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1114</u>	<u>12.1</u>	<u>29</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-110</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>	<u>organic matter, worms</u>  <u>RPD: not visible</u>
gravel	drab olive	<u>slight</u>	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-111</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (mft)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1120</u>	<u>9.3</u>	<u>27</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-111</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>worms, oil sheen,</u>  <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment Sampling  
 Date: 2/23/18 Weather: 32°F, cloudy  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-112</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>11.9</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1128</u>	<u>11.9</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-112</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>algae, trace shell fragments</u>  <u>RPD: not visible</u>	
gravel	drab olive	slight petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate other:		
<u>silt</u>	gray	strong		
clay	black			

LOCATION		Location ID: <u>SS-114</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>15.4</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1139</u>	<u>15.4</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-114</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>Worms, coarse sand in clumps - redish yellow in color</u>  <u>RPD: not visible</u>	
gravel	drab olive	slight petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: sediment sampling  
 Date: 2/23/18 Weather: 32°F, cloudy  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>13km SS-113</u>			
Latitude/Northing(Y):				Longitude/Easting(X):	
Time of sample	Bottom depth (m) <del>ft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
<u>1148</u>	<u>14.0</u>	<u>NA</u>	<u>N</u>	<u>overpenetrated</u>	
<u>1153</u>	<u>14.0</u>	<u>27</u>	<u>Y</u>		
SAMPLE DATA		Sample ID: <u>LDW18-SS-113</u>			
Sediment type <i>not included for aliquoting</i> <input type="checkbox"/> cobble <input type="checkbox"/> gravel <input checked="" type="checkbox"/> sand (F M C) <input checked="" type="checkbox"/> silt <input type="checkbox"/> clay	Sediment color	Sediment odor	Comments: <u>oil sheen</u>  <u>RPO: not visible</u>		
	<input checked="" type="checkbox"/> brown surface	<input checked="" type="checkbox"/> none			H <sub>2</sub> S
	drab olive	slight			petroleum
	brown	moderate			other:
	<input checked="" type="checkbox"/> gray dark	strong			
	black				

LOCATION		Location ID: <u>SS-115</u>			
Latitude/Northing(Y):				Longitude/Easting(X):	
Time of sample	Bottom depth (m) <del>ft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
<u>1208</u>	<u>23.6</u>	<u>27</u>	<u>Y</u>		
SAMPLE DATA		Sample ID: <u>LDW18-SS-115</u>			
Sediment type <input type="checkbox"/> cobble <input type="checkbox"/> gravel <input checked="" type="checkbox"/> sand (F M C) <input checked="" type="checkbox"/> silt <input type="checkbox"/> clay	Sediment color	Sediment odor	Comments: <u>oil sheen, organic matter,</u> <u>worms</u>  <u>RPO: not visible</u>		
	<input checked="" type="checkbox"/> brown surface	<input checked="" type="checkbox"/> none			H <sub>2</sub> S
	drab olive	slight			petroleum
	brown	moderate			other:
	<input checked="" type="checkbox"/> gray dark	strong			
	black				

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 2/23/18 Weather: 33°F, cloudy  
 Sampling Method: power grab Crew: TR, RM, KM

LOCATION		Location ID: <u>SS-46-117</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>117</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1223/1226/1228</u>	<u>5.9</u>	<u>NA</u>	<u>N</u>	<u>cobbles in jaws</u>
<u>1232</u>	<u>12.5</u>	<u>20</u>	<u>Y</u>	<u>&lt; 10m off target to avoid cobbles</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-46-117</u>		
Sediment type cobble gravel sand (F M C) silt clay	Sediment color	Sediment odor		Comments: organic matter  RPD: not visible
	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
	drab olive	slight	petroleum	
	<u>brown</u>	moderate	other:	
	gray	strong		
	black			

*not aliquoted*

LOCATION		Location ID: <u>SS-118</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>117</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1312</u>	<u>13.5</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-118</u>		
Sediment type cobble gravel sand (F M C) silt clay	Sediment color	Sediment odor		Comments: organic matter, worm tubes  RPD: @ 1.5cm
	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>	
	drab olive	<u>slight</u>	petroleum	
	brown	moderate	other:	
	gray	strong		
	<u>black</u>			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: A003 Project no.: Sediment sampling  
 Date: 2/23/18 Weather: 35°F, cloudy  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-119</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m/ft)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1321</u>	<u>6.6</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-119</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>worm tubes,</u>  <u>RPD: not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt trace</u>	gray	strong		
clay	black			

LOCATION		Location ID: <u>SS-120</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m/ft)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1327</u>	<u>5.9 ft</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-120</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>barnacle, worm tubes</u>  <u>RPD: @ 2.3 cm</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: A0C3 Project no.: sediment sampling  
 Date: 2/23/18 Weather: 35°F, cloudy  
 Sampling Method: power grab Crew: TR, RM, KM

LOCATION		Location ID: <u>SS-121</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>1.9</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1340</u>	<u>1.9</u>	<u>27</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-121</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
silt	gray	strong		
clay	black			

LOCATION		Location ID: <u>SS-122</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>1.9</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1350</u>	<u>22.2</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-122</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>Worms, worm tubes</u>  <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: sediment sampling  
 Date: 2/23/18 Weather: 35°F, cloudy  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-<del>423</del>-124</u> <u>km</u>		
Latitude/Northing(Y):		Longitude/Easting(X):		
Time of sample	Bottom depth (mft)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1405</u>	<u>16.0</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-<del>423</del>-124</u> <u>km</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>Worms, worm tubes, trace</u> <u>Shell fragments, organic matter</u> <u>RPD: not visible</u>	
gravel	drab olive	slight petroleum		
<u>sand</u> (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray</u> <u>dark</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-125</u>		
Latitude/Northing(Y):		Longitude/Easting(X):		
Time of sample	Bottom depth (mft)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>141405 km</u>	<u>5.0</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-125</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>Worms, organic matter</u> <u>RPD: not visible</u>	
gravel	drab olive	slight petroleum		
<u>sand</u> (F M C)	<u>brown</u>	moderate other:		
<u>silt</u> <u>trace</u>	gray	strong		
clay	black			



# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3

Project no.: sediment sampling

Date: 2/23/18

Weather: 36°F, cloudy

Sampling Method: pinner grab

Crew: RB km JR, RM, KM

LOCATION		Location ID: <u>SS-126</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1433</u>	<u>13.9</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-126</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>worm tubes, oil sheen</u>  <u>RPO: not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID:		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
SAMPLE DATA		Sample ID:		
Sediment type	Sediment color	Sediment odor		Comments: <u>km 2/23/18</u>
cobble	brown surface	none	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Task 4  
 Date: 02.23.17 Weather: 20's, overcast  
 Sampling Method: pneumatic grab sampler Crew: Nina Maas, Rachel Crawford, Thai Do

<b>GRAB DATA</b>		Location ID: <u>T107 Park outfall</u>				
Latitude/Northing(Y):			Longitude/Easting(X):			
Grab time	Bottom depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Benthic Community Subsample ID	Comments	
<u>0933</u>	<u>5.5</u>	<u>11</u>	<u>Y</u>		<u>Grab 6</u>	
<b>SAMPLE DATA</b>		Sample ID: <u>LDW18-SSOT-T107Park</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>	<b>Comments:</b>			
cobble	<u>brown surface</u>	<u>none</u>	algae, wood debris isolated pockets of sheen RPD not visible organic matter Field dup collected LDW18-SSOT-T107Park-FD			
<u>gravel</u>	<u>drab olive</u>	H <sub>2</sub> S				
sand (F M C)	<u>brown</u>	slight				petroleum
<u>silt</u>	gray	moderate				other:
clay	black	strong				

<b>GRAB DATA</b>		Location ID: <u>179</u>				
Latitude/Northing(Y):			Longitude/Easting(X):			
Grab time	Bottom depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Benthic Community Subsample ID	Comments	
<u>1148</u>	<u>24' 10"</u>	<u>24</u>	<u>Y</u>		<u>Grab 3</u>	
<b>SAMPLE DATA</b>		Sample ID: <u>LDW18-SS179</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:						
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>	<b>Comments:</b>			
cobble	<u>brown surface</u>	<u>none</u>	RPD not visible worms, trace org. debris lab grain size QC collected			
gravel	drab olive	H <sub>2</sub> S				
sand (F M C)	brown	slight				petroleum
<u>silt</u>	<u>gray</u>	moderate				other:
clay	black	strong				

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Task 4  
 Date: 02.23.18 Weather: 30's - overcast  
 Sampling Method: pneumatic grab sampler Crew: Nina Maas, Rachel Crawford, Thai Do

LOCATION		Location ID: <u>5th Ave S outfall</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <sup>ft</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1239</u>	<u>6.0</u>	<u>16</u>	<u>Y</u>	<u>Grab 4</u>
SAMPLE DATA				
Sample ID: <u>LDW18-SSOT-5th AVE S</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>trace organic material</u> <u>RPD not visible</u> <u>extra vol. collected for lab grain size QC.</u>
<u>gravel</u>	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>184</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <sup>ft</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1326</u>	<u>8' 2"</u>	<u>24</u>	<u>Y</u>	<u>Grab 5</u>
SAMPLE DATA				
Sample ID: <u>LDW18-SS-184</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>RPD 0-2 cm</u> <u>worm tubes</u> <u>trace shell fragments and organic material</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Task 4  
 Date: 02.23.18 Weather: 30's, overcast  
 Sampling Method: pneumatic grab sampler Crew: Nina Maas, Rachel Crawford, Thai Do

LOCATION		Location ID: <u>2109-1 outfall</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <sup>ft</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1403</u>	<u>5' 9"</u>	<u>15</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SSOT-2109-1</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>trace plant debris &amp; organic matter</u> <u>worms / worm tubes</u>
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
<u>sand</u> (F/M/C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u> slight	strong		
clay	black			

LOCATION		Location ID: <u>2109-2 outfall</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <sup>ft</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1427</u>	<u>4.0</u>	<u>15</u>	<u>Y</u>	
SAMPLE DATA		Sample ID:		
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>worms, worm tubes</u> <u>trace plant debris and organic material</u> <u>brick fragment</u>
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
<u>sand</u> (F/M/C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 02.23.18 Weather: 30's overcast  
 Sampling Method: pneumatic grab sampler Crew: Nina Maus, Rachel Crawford.  
Thi DO

<b>GRAB DATA</b>		Location ID: <u>169</u>			
Latitude/Northing(Y):			Longitude/Easting(X):		
Grab time	Bottom depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Benthic Community Subsample ID	Comments
<u>1515</u>	<u>21'</u>	<u>18</u>	<u>Y</u>		<u>Grab 2</u>
<b>SAMPLE DATA</b>		Sample ID: <u>LDW18-55-169</u>			
Pre-homogenization analyses (circle): VOC <input type="checkbox"/> Sulfides <input type="checkbox"/> Ammonia <input type="checkbox"/> AVS/SEM <input type="checkbox"/> TPH-P <input type="checkbox"/> Other: <input type="checkbox"/>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>		<b>Comments:</b>	
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>RPD not visible</u> <u>shell fragments, worms,</u> <u>tr-org material</u>	
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

<b>GRAB DATA</b>		Location ID:			
Latitude/Northing(Y):			Longitude/Easting(X):		
Grab time	Bottom depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Benthic Community Subsample ID	Comments
<b>SAMPLE DATA</b>		Sample ID:			
Pre-homogenization analyses (circle): VOC <input type="checkbox"/> Sulfides <input type="checkbox"/> Ammonia <input type="checkbox"/> AVS/SEM <input type="checkbox"/> TPH-P <input type="checkbox"/> Other: <input type="checkbox"/>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>		<b>Comments:</b>	
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

*Handwritten notes on the second form: "TD" and "02.23.18" are written over the table.*

# SURFACE SEDIMENT COLLECTION FORM

Project Name: ADC3 Project no.: Task 4  
 Date: 02-26-18 Weather: partly cloudy, 30's  
 Sampling Method: pneumatic grab sampler Crew: N. Maas, R. Crawford, T. Du

LOCATION		Location ID: <u>005</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <sup>ft</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0750</u>	<u>41.7</u>	<u>18.5</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-005</u>		
Sediment type	Sediment color	Sediment odor	H <sub>2</sub> S	Comments: <u>worms, shell fragments</u> <u>RPD not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	petroleum	
gravel	drab olive	slight	other:	
sand (F M C)	brown	moderate		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>009</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <sup>ft</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0809</u>	<u>26.1</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-009</u>		
Sediment type	Sediment color	Sediment odor	H <sub>2</sub> S	Comments: <u>worms, trace plant debris</u> <u>RPD not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	petroleum	
gravel	drab olive	slight	other:	
sand (F M C)	brown	moderate		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: ADL3 Project no.: Tack 4  
 Date: 02.26.18 Weather: partly cloudy, 30s  
 Sampling Method: pneumatic grab sampler Crew: N Maas, R Corufford, T Do

LOCATION		Location ID: <del>010-TR</del> <u>015</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <sup>ft</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0025</u>	<u>23.2</u>	<u>20</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-<del>010-TR</del> 015</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>Tr. shell fragments, worms</u> <u>RPD not visible</u>	
gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>010</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <sup>ft</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0056</u>	<u>57.6</u>	<u>16</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-010</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	brown surface	<u>none</u> H <sub>2</sub> S	<u>shell fragments, brick fragment.</u> <u>RPD not visible</u>	
gravel	drab olive	slight petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate other:		
silt	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 02.26.18 Weather: ptly cloudy, 30's  
 Sampling Method: pneumatic grab sample Crew: N Maas, R Crawford, T Do

LOCATION		Location ID: <u>014</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <sup>ft</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0913</u>	<u>49.0</u>	<u>19</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-55-014</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>039</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <sup>ft</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0941</u>	<u>9.7</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-55-039</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>tr. org. material, worms, worm tubes</u> <u>RPD not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			



# SURFACE SEDIMENT COLLECTION FORM

Project Name: ADC3 Project no.: TASK 4  
 Date: 02.26.18 Weather: 30's, pty cloudy  
 Sampling Method: pneumatic grab sampler Crew: N. Maus, R. Crawford, T. Do

LOCATION		Location ID: <u>040</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>17</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0956</u>	<u>9.6</u>	<u>17</u>	<u>Y</u>	<u>SMS Location</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-040</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	<u>trace plant/wood debris</u>
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>045</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>17</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1015</u>	<u>9.7</u>	<u>16</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-045</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>shell fragments, tr. wood debris</u>
gravel	drab olive	slight	petroleum	<u>RPD not visible</u>
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: ACC3 Project no.: TASK 4  
 Date: 02.26.18 Weather: 30's, partly cloudy  
 Sampling Method: pneumatic grab sampler Crew: N. Haas, T. Do, R Crawford.

LOCATION		Location ID: <u>046</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>9.9</u>	Penetration depth (cm) <u>16</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>1028</u>				
SAMPLE DATA		Sample ID: <u>LDW18-SS-046</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	H <sub>2</sub> S	<u>tr. org. material</u>
gravel	drab olive	slight	petroleum	<u>RPD not visible</u>
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>047</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>9.7</u>	Penetration depth (cm) <u>12</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>1045</u>				
SAMPLE DATA		Sample ID: <u>LDW18-SS-047</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>RPD not visible</u>
<u>gravel</u>	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt trace</u>	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: ADC3 Project no.: TASK 4  
 Date: 02.26.18 Weather: 30's, partly cloudy  
 Sampling Method: pneumatic grab sampler Crew: N. Maas, T. Do, R. Crawford

LOCATION		Location ID: <u>040</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>15.9</u>	Penetration depth (cm) <u>10</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>1105</u>				<u>grab #2</u>
SAMPLE DATA		Sample ID: <u>LDW 18-55-040</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>trace shell fragments</u> <u>RPD not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C) <u>trace</u>	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>011</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>49.8</u>	Penetration depth (cm) <u>20</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>1133</u>				
SAMPLE DATA		Sample ID: <u>LDW 18-55-011</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>Graceful corals caught in jaws.</u> <u>trace shell fragments &amp; plant/wood debris</u> <u>RPD not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C) <u>trace</u>	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Task 4  
 Date: 02.26.18 Weather: 20's, partly cloudy  
 Sampling Method: pneumatic grab sampler Crew: N. Maas, R. Crawford, T. Do

LOCATION		Location ID: <u>012</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (mft)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1150</u>	<u>26.5</u>	<u>17</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-012</u>		
Sediment type	Sediment color	Sediment odor		Comments:
<u>cobble</u> tr.	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S		<u>shell hash, worms, tr. org. matter</u> <u>RPD not visible</u>
<u>gravel</u> tr.	drab olive	slight petroleum		
<u>sand</u> (F)(M)(C)	brown	moderate other:		
<u>silt</u> tr.	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>123</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (mft)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1340</u>	<u>8.4</u>	<u>17</u>	<u>N</u>	<u>WASHED OUT FROM COARSE MATERIALS, NO FINES</u>
<u>1355</u>	<u>8.4</u>	<u>17</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-123</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S		<u>trace leaf litter</u> <u>RPD not visible</u>
gravel	drab olive	slight petroleum		
<u>sand</u> (F)(M)(C)	<u>brown</u>	moderate other:		
<u>silt</u>	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 02.26.18 Weather: 40s, partly cloudy  
 Sampling Method: pneumatic grab sampler Crew: N. Maas, R. Crawford, T. Do

LOCATION		Location ID: <u>127</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>tr</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1414</u>	<u>26.4</u>	<u>20</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-127</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u> <u>tr</u>	<u>none</u>	H <sub>2</sub> S	<u>tr. shell fragments, worm tubes</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u> <u>tr</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>128</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>tr</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1426</u>	<u>22.4</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-128</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>RPD not visible</u> <u>tr. org. material</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 02.26.18 Weather: 40S, partly cloudy  
 Sampling Method: pneumatic grab sampler Crew: N. Matis, R. Crawford, T. Do

LOCATION		Location ID: <u>129</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <sup>ft</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1439</u>	<u>20.2</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-129</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S		<u>trace org. material, worms</u>
gravel	drab olive	slight petroleum		<u>RPD 0-2cm</u>
sand (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <del>130</del> <u>131</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <sup>ft</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1504</u>	<u>17.6</u>	<u>21</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-131</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S		<u>worm tubes, tr. org. matter</u>
gravel	drab olive	slight petroleum		<u>RPD not visible</u>
sand (F M C)	<u>brown</u>	moderate other:		
<u>silt</u>	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 02-28-18 Weather: 40's partly cloudy  
 Sampling Method: pneumatic grab sampler Crew: N. Macis, P. Crawford, T. Do

LOCATION		Location ID: <u>132</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1517/1520</u>	<u>17.9</u>	<u>&gt;30</u>	<u>N/N</u>	<u>overpenetrated/overpenetrated</u>
<u>1525</u>	<u>17.9</u>	<u>16</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-132</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>worm tubes, tr. org. matter &amp; plant debris</u>
gravel	drab olive	slight	petroleum	<u>RPD not visible</u>
sand (F M C)	brown	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

LOCATION		Location ID: <u>133</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1539</u>	<u>9.0</u>	<u>19</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-133</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>worm tubes, trace org matter</u>
gravel	drab olive	slight	petroleum	<u>RPD not visible</u>
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 02.27.18 Weather: overcast, 40s  
 Sampling Method: pneumatic grab sampler Crew: N Maas, R Mathonnet, T Do

LOCATION		Location ID: <u>093</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>ft</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0813</u>	<u>19.8</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-093</u>		
Sediment type	Sediment color <u>dr.</u>	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>	<u>RPD not visible</u>
gravel	drab olive	<u>slight</u>	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray dr.</u>	strong		
clay	black			

LOCATION		Location ID: <u>Seattle Dist Gr Outfall</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>ft</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0845</u>	<u>9.9</u>	<u>25</u>	<u>Y</u>	<u>grab #2</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS0T-SeattleDistGr</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>	<u>fr. leaf/plant debris</u>
gravel	drab olive	<u>slight</u>	petroleum	<u>RPD not visible</u>
sand (F M C)	brown	<u>moderate</u>	other:	
<u>silt</u>	<u>gray dr.</u>	strong		
clay	black			



# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 02.27.10 Weather: overcast, 40s  
 Sampling Method: pneumatic grab sampler Crew: N Maas, R Methonnet, T Do

LOCATION		Location ID: <u>145</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>10.0</u>	Penetration depth (cm) <u>21</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>0952</u>				<u>grab #2</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-145</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>tr. org. material</u>
gravel	drab olive	slight	petroleum	<u>RPD not visible</u>
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>149</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>22.1</u>	Penetration depth (cm) <u>20</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>1011</u>				
SAMPLE DATA		Sample ID: <u>LDW18-SS-149</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	<u>trace plant debris</u>
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 02.27.10 Weather: overcast, 40s  
 Sampling Method: pneumatic grab sampler Crew: N Maas, R Methonnet, T Do

LOCATION		Location ID: <u>150</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>ft</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1027</u>	<u>9.1</u>	<u>17</u>	<u>Y</u>	<u>grab #2</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-150</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S		<u>RPD not visible</u> <u>tr. org. material at surface</u>
gravel	drab olive	slight petroleum		
sand (F M C)	<u>brown</u>	moderate other:		
<u>silt</u>	gray	strong		
clay	black			

LOCATION		Location ID: <u>151</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>ft</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1043</u>	<u>23.1</u>	<u>15</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-151</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S		<u>RPD 3cm to depth</u> <u>tr. org. material</u> <u>plant/leaf debris</u>
gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:		
<u>silt</u>	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 02.27.10 Weather: overcast, 40s  
 Sampling Method: pneumatic grab sampler Crew: N Maas, R Methonnet, T Do

LOCATION		Location ID: <u>152</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m/ft)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1100</u>	<u>15.9</u>	<u>24.5</u>	<u>Y</u>	<u>grab #2</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-152</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>tr. org. material</u> <u>RPD not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>154</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m/ft)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1110</u>	<u>8.1</u>	<u>10</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-154</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>tr. org. material</u> <u>RPD not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 02.27.10 Weather: overcast, 40s  
 Sampling Method: pneumatic grab sampler Crew: N Vaas, R Methenct, T Do

LOCATION		Location ID: <u>153</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>ft</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1124</u>	<u>13.9</u>	<u>17.5</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-153</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>tr. org. material</u> <u>RPD to ~ 2cm.</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u> <u>tr.</u>	strong		
clay	black			

LOCATION		Location ID: <u>159</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>ft</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1152</u>	<u>24.4</u>	<u>18.5</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-159</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>tr. org. material</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: ROCS Project no.: TASK 4  
 Date: 02.27.10 Weather: overcast, 40s  
 Sampling Method: pneumatic grab sampler Crew: N Maas, R Mathonnet, T Do

LOCATION		Location ID: <u>160</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <input checked="" type="checkbox"/>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1210</u>	<u>6.7</u>	<u>19</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-160</u>				
Sediment type	Sediment color	Sediment odor		Comments: <u>tr. org. material</u> <u>RPD not visible.</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>158</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <input checked="" type="checkbox"/>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1231</u>	<u>23.9</u>	<u>16</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-158</u>				
Sediment type	Sediment color	Sediment odor		Comments: <u>tr. organic matter</u> <u>RPD not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: ROCB Project no.: TASK 4  
 Date: 02.27.10 Weather: overcast, 40s  
 Sampling Method: pneumatic grab sampler Crew: N Ugas, R Methenect, T Do

LOCATION		Location ID: <u>157</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>ft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1245</u>	<u>17.8</u>	<u>14.5</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-157</u>				
Sediment type	Sediment color	Sediment odor		Comments: <u>trace organic material, worm, leaf litter</u> <u>RPD not visible</u>
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>156</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>ft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1300</u>	<u>8.8</u>	<u>17</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-156</u>				
Sediment type	Sediment color	Sediment odor		Comments: <u>shell frag. + tr. org. matter</u> <u>RPD not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 02.27.10 Weather: overcast, 40s  
 Sampling Method: pneumatic grab sampler Crew: N Maas, R Methenect, T Do

LOCATION		Location ID: <u>161</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>NA</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1311</u>	<u>5.9</u>	<u>16</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-161</u>				
Sediment type	Sediment color	Sediment odor		Comments: <u>SMS LOCATION</u> <u>tr. organic material</u> <u>RPD not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C) <u>+</u>	brown	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

LOCATION		Location ID: <u>162</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>NA</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1342</u>	<u>5.3</u>	<u>11</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-162</u>				
Sediment type	Sediment color	Sediment odor		Comments: <u>hard-pack sand/silt mix.</u> <u>RPD not visible.</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C) <u>+</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 02.27.10 Weather: overcast, 40s  
 Sampling Method: pneumatic grab sampler Crew: N Maas, R Mathenect, T Do

LOCATION		Location ID: <u>103</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>11.1</u>	Penetration depth (cm) <u>20</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>1355</u>				
SAMPLE DATA		Sample ID: <u>LDW18-SS-103</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u>	<u>trace organic matter; trace leaf like RPD not visible</u>	
<u>gravel</u> <u>tr</u>	drab olive	slight		
sand (F M C)	brown	moderate		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <del>103</del> <u>104</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>16.8</u>	Penetration depth (cm) <u>20</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>1433</u>				<u>grab #2</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-<del>103</del> 104</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	brown surface	<u>none</u>	<u>amphipod RPD not visible</u>	
gravel	drab olive	slight		
sand (F M C) <u>tr</u>	<u>brown</u>	moderate		
<u>silt</u> <u>tr</u>	gray	strong		
clay	black			



# SURFACE SEDIMENT COLLECTION FORM

Project Name: ROC3 Project no.: TASK 4  
 Date: 02.27.10 Weather: overcast, 40s  
 Sampling Method: pneumatic grab sampler Crew: N. Ugas, R. Mathonnet, T. Do

LOCATION		Location ID: <u>155</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>18.9</u>	Penetration depth (cm) <u>21</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>1445</u>				
SAMPLE DATA		Sample ID: <u>LDW18-SS-155</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>tr. org material</u> <u>RPP not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID:		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>18.9</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
				<u>1445</u> <u>02.27.10</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: sediment sampling  
 Date: 2/28/18 Weather: 40s, cloudy  
 Sampling Method: power grab Crew: JB, RM, KCM

LOCATION		Location ID: <u>SS-134</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <sup>ft</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0833</u>	<u>10.5</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-134</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>worms, oil sheen</u>  <u>RPD: not visible</u>	
gravel	drab olive	slight petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate other:		
<u>silt</u>	gray	strong		
clay	black			

LOCATION		Location ID: <u>SS-135</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <sup>ft</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0843</u>	<u>10.6</u>	<u>27</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-135</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>worms, oil sheen</u>  <u>RPD: @ 2.5 cm</u>	
gravel	drab olive	slight petroleum		
<u>sand (F M C)</u>	brown	moderate other:		
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: sediment sampling  
 Date: 2/28/18 Weather: 40s, cloudy  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-136</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <sup>ft</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0852</u>	<u>14.9</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-136</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S		<u>shell fragments, worms, worm tubes</u>  <u>RPD: not visible</u>
gravel	drab olive	slight petroleum		
<u>sand</u> (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-166</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <sup>ft</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0920</u>	<u>8.4</u>	<u>NA</u>	<u>N</u>	<u>washed out</u>
<u>0922</u>	<u>8.4</u>	<u>29</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-166</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u> H <sub>2</sub> S		<u>shell fragments (trace)</u>  <u>RPD: not visible</u>
<u>gravel</u> <u>trace</u>	drab olive	slight petroleum		
<u>sand</u> (F M C)	<u>brown</u>	moderate other:		
silt	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: sediment sampling  
 Date: 2/28/18 Weather: 40s, cloudy  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-167</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>NA</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0930</u>	<u>9.5</u>	<u>28</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
silt	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-168</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>NA</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0938</u>	<u>12.4</u>	<u>NA</u>	<u>N</u>	<u>washed out</u>
<u>0940</u>	<u>12.4</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>trace organic matter</u> <u>RPD: not visible</u>
<u>gravel trace</u>	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
silt	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 2/28/18 Weather: 40s, raining  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-165</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>MA</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0958</u>	<u>11.0</u>	<u>28</u>	<u>Y</u>	<u>attempted 2/27/18, ~6 ft off target to avoid previous sampling locations</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-165</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>organic matter</u> <u>RPD: not visible</u>
<u>gravel trace</u>	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
silt	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-140</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>MA</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1015</u>	<u>18.1</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>SS pm LDW18-SS-140</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>Worms, worm tubes, organic matter</u> <u>RPD: @ ~2 cm</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
<u>clay</u>	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 2/28/18 Weather: 40s, rain  
 Sampling Method: power grab Crew: JK, RM, KM

LOCATION		Location ID: <u>SS-139</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1025</u>	<u>6.6</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LOW18-SS-139</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>organic matter, oil sheen</u>  <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

LOCATION		Location ID: <u>SS-138</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1034</u>	<u>18.5</u>	<u>29</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LOW18-SS-138</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>Shell fragments, worms</u>  <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: A0C3 Project no.: Sediment sampling  
 Date: 2/28/18 Weather: 40s, rain  
 Sampling Method: power grab Crew: JK, RM, KM

LOCATION		Location ID: <u>SS-137</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1042</u>	<u>18.4</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-137</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>shell fragments, worms, worm tubes</u>  <u>RPD: not visible</u>	
gravel	drab olive	slight petroleum		
<u>sand</u> (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-105 km SS-104</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1118</u>	<u>26.0</u>	<u>NA</u>	<u>N</u>	<u>over penetrated</u>
<u>1122</u>	<u>26.0</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID:		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	brown surface	<u>none</u> H <sub>2</sub> S	<u>organic matter, worms, shell fragments</u>  <u>RPD: not visible</u>	
gravel	drab olive	slight petroleum		
<u>sand</u> (F M C)	brown	moderate other:		
<u>silt</u>	gray	strong		
clay	<u>black</u>			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: sediment sampling  
 Date: 2/28/18 Weather: 40s, rain  
 Sampling Method: power grab Crew: JR, NM, KM

LOCATION		Location ID: <u>SS-105</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>ft</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1133</u>	<u>22.4</u>	<u>26</u>	<u>Y</u>	<u>barres adjacent: ~3.6 m off target</u>
SAMPLE DATA		Sample ID:		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>	<u>organic matter, worms, oil sheen</u>  <u>RPD: not visible</u>
gravel	drab olive	<u>slight</u>	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-102</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>ft</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1151</u>	<u>12.9</u>	<u>NA</u>	<u>N</u>	<u>over penetrated</u>
<u>1153</u>	<u>12.9</u>	<u>29</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-102</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>organic matter, oil sheen</u>  <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			



# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 2/28/18 Weather: 40s, showers  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-101</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1204</u>	<u>28.2</u>	<u>25</u>	<u>Y</u>	<u>SMS location</u>
SAMPLE DATA		Sample ID: <u>LOW18-SS-101</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>Shell fragments, organic matter, worms</u>  <u>RPD: not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

LOCATION		Location ID: <u>SS-100</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1237</u>	<u>18.3</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-100</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>oil sheen, shell fragments, patches of black silt, organic matter, worms</u>  <u>RPD: no visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment Sampling  
 Date: 2/28/18 Weather: 40s, rain  
 Sampling Method: power grab Crew: JK, RM, KM

LOCATION		Location ID: <u>SS-098</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1251</u>	<u>7.4</u>	<u>28</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-098</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>oil sheen, worms</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	<u>RPD: @ 1.5 cm</u>
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-092</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1306</u>	<u>35.6</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-092</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>Sculpin, graceful crab, worms,</u>
gravel	drab olive	slight	petroleum	<u>trace organic matter</u>
<u>sand (F M C)</u>	brown	moderate	other:	<u>RPD: not visible</u>
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: sediment sampling  
 Date: 2/28/18 Weather: 40s, rain showers  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-091</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>ft</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1320</u>	<u>8.6</u>	<u>22</u>	<u>Y</u>	<u>SMS location</u>
SAMPLE DATA		Sample ID: <u>LOW18-SS-091</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>mussel shells</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	<u>RPD: @ ~1.5cm</u>
<u>silt</u>	gray	strong		
clay	<u>black</u>			

LOCATION		Location ID: <u>SS-089</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>ft</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1337</u>	<u>23.0</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-089</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	H <sub>2</sub> S	<u>Worms, shell fragments, mussels,</u>
<u>gravel</u>	drab olive	slight	petroleum	<u>barnacles</u>
<u>sand (F M C)</u>	brown	<u>moderate</u>	other:	<u>RPD: not visible</u>
<u>silt</u>	<u>gray dark</u>	strong	<u>fungus-like</u>	<u>smell</u>
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: sediment sampling  
 Date: 2/28/18 Weather: 40s, rain showers  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-087</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>17</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1348</u>	<u>24.7</u>	<u>28</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-087</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> <u>RM</u>	H <sub>2</sub> S	<u>Worms, shell fragments, barnacles</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown</u>	<u>moderate</u>	other:	<u>RPD: not visible</u>
<u>silt</u>	gray	strong	<u>fungus-like odor</u>	
<u>clay</u>	black			

LOCATION		Location ID: <u>SS-085</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>17</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1358</u>	<u>35.3</u>	<u>29</u>	<u>Y</u>	
SAMPLE DATA		Sample ID:		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>oil sheen, trace organic matter</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:	<u>RPD: no visible</u>
<u>silt</u>	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOL3 Project no.: sediment sampling  
 Date: 2/28/18 Weather: 40s, rain  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-095</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1429</u>	<u>28.0</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-095</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	none <u>H<sub>2</sub>S</u>	<u>shrimp</u>	
gravel	drab olive	<u>slight</u> petroleum	<u>RPD: not visible</u>	
<u>sand (F M C)</u>	brown	moderate other:		
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-090</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1442</u>	<u>35.0</u>	<u>23</u>	<u>Y</u>	<u>~8m off target due to bridge structures</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-090</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>Shell fragments, shrimp, trace organic matter</u>	
gravel	drab olive	slight petroleum	<u>RPD: not visible</u>	
<u>sand (F M C)</u>	brown	moderate other:		
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: A003 Project no.: TASK 4  
 Date: 02.28.18 Weather: \_\_\_\_\_  
 Sampling Method: pneumatic grab sampler Crew: N Maas, R Crawford, T Do

LOCATION		Location ID: <u>187</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0829</u>	<u>22.5</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-187</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	trace org. matter and plant/leaf debris	
gravel	drab olive	slight petroleum	RPD not visible.	
<u>sand (F M C)</u>	<u>brown</u>	moderate other:	Field duplicate collected	
<u>silt</u>	gray	strong	<u>LDW18-SS-187-FD</u>	
clay	black			

resampled at new target b/c of dredge prism. see forms for 03.02.18 ID

LOCATION		Location ID: <u>188</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0915</u>	<u>17.7</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-188</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	trace org. matter and leaf litter	
gravel	drab olive	slight petroleum	RPD not visible	
<u>sand (F M C)</u>	<u>brown</u>	moderate other:		
<u>silt trace</u>	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 02.28.19 Weather: overcast, 40S  
 Sampling Method: pneumatic grab sampler Crew: N. Maas, R. Crawford, T. Do

LOCATION		Location ID: <u>Ditch #2 outfall</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>ft</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0944</u>	<u>8.5</u>	<u>21</u>	<u>Y</u>	<u>Grab 2</u>
SAMPLE DATA		Sample ID: <u>LDW18-SOT-Ditch 2</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>decomposed wood throughout, trace org. matter</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u> <u>trace</u>	gray	strong		
clay	black			

LOCATION		Location ID: <u>DWSD #3 outfall</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>ft</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1015</u>	<u>0</u>	<u>10</u>	<u>Y</u>	<u>hand collected at shoreline, top 10cm.</u> <u>(Grab 3)</u>
SAMPLE DATA		Sample ID: <u>LDW18-SOT-DWSD3</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>leaf litter and organic material</u> <u>RPD 2-3 cm depth.</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 02-28-18 Weather: 40s, light rain  
 Sampling Method: pneumatic grab sampler Crew: N. Maas, R Crawford, TDO

LOCATION		Location ID: <u>2100A</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1039</u>	<u>7.6</u>	<u>16</u>	<u>Y</u>	<u>41 ft. from outfall, Grab 3</u>
SAMPLE DATA		Sample ID: <u>LDW18-SSOT-2100A-1</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>0-2cm brown surface layer w/ tr. org. material</u> <u>2-4cm decomposing leaf litter, RPD 2-4 cm.</u>	
gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>2100A</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1101</u>	<u>5.8</u>	<u>14</u>	<u>Y</u>	<u>~90 ft. from outfall</u>
SAMPLE DATA		Sample ID: <u>LDW18-SSOT-2100A-2</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>leaf litter</u> <u>RPD not visible</u>	
gravel	drab olive	slight petroleum		
sand (F M C)	<u>brown</u>	moderate other:		
<u>silt</u>	<u>gray</u> +	strong		
clay	black			



# SURFACE SEDIMENT COLLECTION FORM

Project Name: A003 Project no.: TASK 4  
 Date: 02.25.18 Weather: overcast, 40S  
 Sampling Method: pneumatic grab sampler. Crew: N. Maas, R. Crawford, T. Do

LOCATION		Location ID: <u>2101</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1123</u>	<u>6.4</u>	<u>20</u>	<u>Y</u>	<u>Grab 2</u>
SAMPLE DATA		Sample ID: <u>LDW18-SSOT-2101</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>trace org material, tr plant debris</u> <u>RPD not visible.</u>
cobble	<u>trace</u> <u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F/M/C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

LOCATION		Location ID: <u>186</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1209</u>	<u>9.7</u>	<u>16</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-186</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>wood debris</u> <u>trace leaf litter, shell fragments</u> <u>RPD not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F/M/C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TAX 4  
 Date: 02.20.18 Weather: 40's, light/intermittent rain  
 Sampling Method: pneumatic grab sampler Crew: N. Lewis, R. Crawford, T Do

LOCATION		Location ID: <u>185</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>ft</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1227</u>	<u>10.6</u>	<u>18</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-185</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S		<u>leaf litter, shell fragments</u> <u>RPD not visible</u>
<u>gravel</u>	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>CleanScapes B outfall</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>ft</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1323</u>	<u>9.9</u>	<u>16</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SSDT-CleanScapes B</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S		<u>wood/plant debris shell fragments</u> <u>RPD not visible</u>
gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 02.28.18 Weather: 40's, light rain  
 Sampling Method: pneumatic grab sampler Crew: N. Maas, R. Crawford, T Do.

LOCATION		Location ID: <u>Dawn Foods outfall</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <sup>ft</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1352</u>	<u>16.8</u>	<u>17</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SSOT-DawnFoods</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>plant/wood debris</u> <u>RPD not visible</u>
<input type="checkbox"/> cobble	<input checked="" type="checkbox"/> <u>brown surface</u>	<input checked="" type="checkbox"/> <u>none</u>	H <sub>2</sub> S	
<input checked="" type="checkbox"/> <u>gravel</u>	drab olive	<input type="checkbox"/> slight	petroleum	
<input type="checkbox"/> sand (F M C)	brown	<input type="checkbox"/> moderate	other:	
<input checked="" type="checkbox"/> <u>silt</u>	<input checked="" type="checkbox"/> <u>gray</u>	<input type="checkbox"/> strong		
<input type="checkbox"/> clay	black			

LOCATION		Location ID: <u>180</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <sup>ft</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1410</u>	<u>11.5</u>	<u>24.5</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-180</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>shell frag., tr. plant/wood debris</u> <u>RPD not visible</u>
<input type="checkbox"/> cobble	<input checked="" type="checkbox"/> <u>brown surface</u>	<input checked="" type="checkbox"/> <u>none</u>	H <sub>2</sub> S	
<input type="checkbox"/> gravel	drab olive	<input type="checkbox"/> slight	petroleum	
<input type="checkbox"/> sand (F M C)	brown	<input type="checkbox"/> moderate	other:	
<input checked="" type="checkbox"/> <u>silt</u>	<input checked="" type="checkbox"/> <u>gray dk.</u>	<input type="checkbox"/> strong		
<input type="checkbox"/> clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 02.28.18 Weather: 40s, light rain  
 Sampling Method: pneumatic grab samples Crew: N. Maus, R Crawford, TDO

LOCATION		Location ID: <u>181</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1432</u>	<u>12.5</u>	<u>27</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-181</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble <input checked="" type="checkbox"/> gravel <u>trace</u> sand (F M C) <input checked="" type="checkbox"/> silt clay	<input checked="" type="checkbox"/> brown surface drab olive brown <input checked="" type="checkbox"/> gray <u>dark</u> black	<input checked="" type="checkbox"/> none slight moderate strong	H <sub>2</sub> S petroleum other:	fr. wood debris & org. material RPD not visible

LOCATION		Location ID: <u>182</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
SAMPLE DATA		Sample ID: <u>LDW18-SS-182</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel sand (F M C) silt clay	brown surface drab olive brown gray black	none slight moderate strong	H <sub>2</sub> S petroleum other:	

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 3/1/18 Weather: 40°F, sunny  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-094</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (mft)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0822</u>	<u>20.0</u>	<u>28</u>	<u>Y</u>	<u>collected @ re-randomized loc. 2</u>
SAMPLE DATA		Sample ID: <u>LOW18-SS-094</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>oil sheen, organic matter</u>  <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

LOCATION		Location ID: <u>SS-116</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (mft)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0842</u>	<u>24.2</u>	<u>26</u>	<u>Y</u>	<u>collected @ re-randomized loc. 2</u>
SAMPLE DATA		Sample ID: <u>LOW18-SS-116</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>organic matter, trace shell fragments</u>  <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: sediment sampling  
 Date: 3/1/18 Weather: 40s, sunny  
 Sampling Method: power grab Crew: JK, RM, KM

LOCATION		Location ID: <u>SS-130</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <del>1.1</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0909/0913</u>	<u>9.1/9.1</u>	<u>NA/28</u>	<u>N/Y</u>	<u>over-penetrated / insufficient volume for SRS</u>
<u>0928</u>	<u>8.8</u>	<u>25</u>	<u>Y</u>	<u>resampled to keep sufficient volume for SRS</u>
SAMPLE DATA		Sample ID: <u>LOW18-SS-130</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>~3.5m off target (in South Park Marina)</u> <u>Worms, worm tubes</u> <u>RPO: not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-142</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <del>1.1</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1000</u>	<u>2.8</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-13142</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>Worms</u> <u>RPO: not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
<u>clay</u>	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: sediment sampling  
 Date: 3/1/18 Weather: 40s, sunny  
 Sampling Method: pinner grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-143</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>10.8</u>	Penetration depth (cm) <u>28</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>1008</u>				<u>SMS location</u>
SAMPLE DATA		Sample ID: <u>LOW18-SS-143</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> <u>KM</u>	<u>H<sub>2</sub>S</u>	<u>worms, worm tubes</u>
gravel	drab olive	<u>slight</u>	petroleum	
<u>sand</u> (F/M/C)	<u>brown</u>	moderate	other:	<u>RPD: @ 1.5 cm</u>
<u>silt</u>	gray	strong		
clay	black			

LOCATION		Location ID: <u>SS-144</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>12.1</u>	Penetration depth (cm) <u>24</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>1023</u>				
SAMPLE DATA		Sample ID: <u>LOW18-SS-144</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>Mussels, shell fragments, organic matter, oil sheen</u>
gravel	drab olive	<u>slight</u>	petroleum	
<u>sand</u> (F/M/C)	<u>brown</u>	moderate	other:	<u>RPD @ 2.5 cm</u>
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: A0C3 Project no.: Sediment Sampling  
 Date: 3/1/18 Weather: 40s, Sunny  
 Sampling Method: power grab Crew: JK, RM, KM

LOCATION		Location ID: <u>SS-148</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1032</u>	<u>9.3</u>	<u>27</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LOW18-SS-148</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>worm tubes</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	<u>RPD: not visible</u>
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-146</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1042</u>	<u>14.0</u>	<u>27</u>	<u>Y</u>	<u>sampled w/in 10m of target</u>
SAMPLE DATA				
Sample ID: <u>LOW18-SS-146</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>organic matter, trace shell fragments</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	<u>RPD: not visible</u>
<u>silt</u>	<u>gray</u>	strong		
clay	black			



# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOL3 Project no.: sediment sampling  
 Date: 3/1/18 Weather: 40s, sunny  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-147</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1058</u>	<u>12.6</u>	<u>NA</u>	<u>N</u>	<u>over-penetrated</u>
<u>1107</u>	<u>12.7</u>	<u>26</u>	<u>Y</u>	<u>collected w/in 10m of target</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-147</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>Worm tubes</u>	
gravel	drab olive	slight petroleum		
sand (F M C)	<u>brown</u>	moderate other:	<u>RPD @ 0.75 cm</u>	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-141</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1155</u>	<u>12.8</u>	<u>25</u>	<u>Y</u>	<u>collected @ re-randomized loc. 1</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-141</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>Worm tubes, organic matter.</u>	
gravel	drab olive	slight petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate other:	<u>RPD: not visible</u>	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: A0C3 Project no.: Sediment sampling  
 Date: 3/1/18 Weather: 40s, sunny  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-103</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>(m)</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1218</u>	<u>17.1</u>	<u>26</u>	<u>Y</u>	<u>collected @ re-randomized loc. 2</u>
SAMPLE DATA		Sample ID: <u>LOW18-SS-103</u>		
Sediment type	Sediment color	Sediment odor		Comments:  <u>RPD: not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
<u>gravel</u> <u>trace</u>	drab olive	slight	petroleum	
<u>sand</u> (F)(M)(C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

LOCATION		Location ID: <u>SS-099</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>(m)</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1230</u>	<u>25.5</u>	<u>26</u>	<u>Y</u>	<u>collected @ re-randomized loc. 1</u>
SAMPLE DATA		Sample ID: <u>LOW18-SS-099</u>		
Sediment type	Sediment color	Sediment odor		Comments:  <u>organic matter, shell fragments</u>  <u>RPD: not visible</u>
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>	
gravel	drab olive	<u>slight</u>	petroleum	
<u>sand</u> (F)(M)(C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u> <u>dark</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 3/1/18 Weather: 40s, sunny  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-097</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>mft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1241</u>	<u>30.6</u>	<u>23</u>	<u>Y</u>	<u>collected @ re-randomized loc. 1</u>
SAMPLE DATA		Sample ID: <u>LOW18-SS-097</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>	<u>dam shell, barnacle</u>
gravel	drab olive	<u>slight</u>	petroleum	
<u>sand (F/M/C)</u>	<u>brown</u>	moderate	other:	<u>RPO: not visible</u>
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-096</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>mft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1253</u>	<u>18.4</u>	<u>26</u>	<u>Y</u>	<u>collected @ re-randomized loc. 1</u>
SAMPLE DATA		Sample ID: <u>LOW18-SS-096</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>worms, oil sheen, organic matter</u>
gravel	drab olive	slight	petroleum	
<u>sand (F/M/C)</u>	<u>brown</u>	moderate	other:	<u>RPO: not visible</u>
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOL3 Project no.: Sediment Sampling  
 Date: 3/1/18 Weather: 40s, sunny  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-088</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth <u>mft</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1305</u>	<u>18.9</u>	<u>25</u>	<u>Y</u>	<u>collected w/in 10m of target</u>
SAMPLE DATA		Sample ID: <u>LOW18-SS-088</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>organic matter</u>  <u>RPD @ 1.5 cm</u>	
gravel	drab olive	slight petroleum		
<u>sand (F/M/C)</u>	<u>brown</u>	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-086</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth <u>mft</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1316</u>	<u>23.0</u>	<u>27</u>	<u>Y</u>	<u>collected ~ 7.2m off target due to barge</u>
SAMPLE DATA		Sample ID: <u>LOW18-SS-086</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	none <u>H<sub>2</sub>S</u>	<u>organic matter, worm tubes, worms</u>  <u>RPD. not visible</u>	
gravel	drab olive	slight petroleum		
<u>sand (F/M/C)</u>	brown	moderate other:		
<u>silt</u>	<u>gray dark</u>	<u>strong</u>		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 3/1/18 Weather: 40s, Sunny/partly sunny  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-070</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>msf</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1340</u>	<u>44.4</u>	<u>22</u>	<u>Y</u>	<u>collected @ re-randomized loc. 3</u>
SAMPLE DATA		Sample ID: <u>LOW18-SS-070</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>worms, organic matter</u>  <u>RPO: not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	gray	strong		
<u>clay</u>	<u>black</u>			

LOCATION		Location ID: <u>SS-066</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>msf</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1356</u>	<u>38.0</u>	<u>23</u>	<u>Y</u>	<u>collected ~ 7.3 m off target from re-randomized loc. 2</u>
SAMPLE DATA		Sample ID: <u>LOW18-SS-066</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>Sea anemone</u> <u>Shell fragments, organic matter</u>  <u>RPO: not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 3/1/18 Weather: 40s, cloudy  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-031</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1416</u>	<u>15.6</u>	<u>29</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-031</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>shell fragments, worms</u>  <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F/M/C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-030</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1435</u>	<u>13.5</u>	<u>20</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-030</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>	<u>organic matter, trace shell fragments</u>  <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F/M/C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	<u>strong</u>		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: HOC3 Project no.: sediment sampling  
 Date: 3/1/18 Weather: 40s, partly sunny  
 Sampling Method: power grab Crew: JK, RM, KM

LOCATION		Location ID: <u>SS-029</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1442</u>	<u>21.8</u>	<u>14</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-029</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	H <sub>2</sub> S	<u>shell fragments, sculpin</u>  <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	<u>moderate</u>	other:	
<u>silt</u>	<u>gray</u>	strong	<u>fungus odor</u>	
clay	black			

LOCATION		Location ID: <u>SS-028</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1454</u>	<u>38.2</u>	<u>27</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-028</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>organic matter, worms</u>  <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 03.01.18 Weather: 30's, partly cloudy  
 Sampling Method: pneumatic grab sampler Crew: N. Maas, R Crawford, T DD

LOCATION		Location ID: <u>182</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0803</u>	<u>5.6</u>	<u>21</u>	<u>Y</u>	<u>Grab 5</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-182</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>Leaf litter abundant</u> <u>RPD not visible.</u>
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u> clay	<u>gray</u> black	strong		

LOCATION		Location ID: <u>178</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0839</u>	<u>31.8</u>	<u>22</u>	<u>Y</u>	<u>Grab 3</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-178</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>COLLECTED FIELD DUPLICATE</u> <u>LDW18-SS-178-FD</u> <u>leaf litter, shell fragment, worms</u> <u>RPD not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u> clay	<u>gray</u> black	strong		



# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 03.01.18 Weather: 40s, partly cloudy  
 Sampling Method: pneumatic grab sampler Crew: N. Moore, R. Crawford, T. Do

LOCATION		Location ID: <u>050</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <sup>A</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0904</u>	<u>32.2</u>	<u>19</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-050</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>fr. organic material</u> <u>RPD not visible</u>	
gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>176</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <sup>A</sup>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0925</u>	<u>41.5</u>	<u>13</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-176</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>shell fragments/fr. weed/plant debris</u> <u>RPD not visible</u>	
<u>gravel</u> <sup>tr</sup>	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray</u> <sup>dark</sup>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 03.01.18 Weather: 40's, partly cloudy  
 Sampling Method: pneumatic grab sampler Crew: N Maas, R Crawford, TDO

LOCATION		Location ID: <u>175</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>MA</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0951</u>	<u>41.0</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-175</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>shell fragments, worms, tr. plant/wood debris</u>  <u>RPD not visible</u>	
gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray dk</u>	strong		
clay	black			

LOCATION		Location ID: <u>173</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>MA</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1028</u>	<u>35.6</u>	<u>24.5</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-173</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>shell fragments, tr. plant debris, worms</u>  <u>RPD not visible</u>	
gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray dk</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 03.01.18 Weather: 40s, ptly cloudy  
 Sampling Method: pneumatic grab sampler Crew: N. Mas, R. Crawford, T. D.

LOCATION		Location ID: <u>171</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1048</u>	<u>40.5</u>	<u>18</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-171</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>RPD not visible</u>
gravel	drab olive	<u>slight</u>	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>0116</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1123</u>	<u>17.3</u>	<u>15</u>	<u>Y</u>	<u>~ 2m off target. (Grab 5)</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-0116</u>		
Sediment type	Sediment color	Sediment odor		Comments:
<u>cobble</u>	brown surface	<u>none</u>	H <sub>2</sub> S	<u>worms, shell fragments, trace glass</u> <u>RPD not visible</u>
<u>gravel</u>	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 03.01.18 Weather: 40's, partly cloudy  
 Sampling Method: pneumatic grab sampler Crew: N. Maas, P Crawford, TDO

LOCATION		Location ID: <u>172</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <del>19.4</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1222</u>	<u>7.4</u>	<u>19</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-172</u>				
Sediment type	Sediment color	Sediment odor		Comments: <u>wood (chips) abundant, worms</u> <u>tr- plastic/garbage, shell fragments</u> <u>RPD not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u> <u>dk</u>	strong		
clay	black			

LOCATION		Location ID: <u>023</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <del>19.4</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1243</u>	<u>24.0</u>	<u>15</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW18-SS-023</u>				
Sediment type	Sediment color	Sediment odor		Comments: <u>trace shell fragments, worms,</u> <u>plant debris</u> <u>RPD not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel <u>tr</u>	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u> <u>dark</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 03.01.8 Weather: 40s  
 Sampling Method: pneumatic grab sampler Crew: N Meas, R Crawford, TDO

LOCATION		Location ID: <u>170</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>(ft)</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1310</u>	<u>15.4</u>	<u>19</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-170</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>shell fragments, worms, tr. wood debris</u> <u>RPD not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	<u>drab olive</u>	<u>slight</u>	petroleum	
sand (F M C)	<u>brown</u>	<u>moderate</u>	other:	
<u>silt</u>	<u>gray</u>	<u>strong</u>		
clay	<u>black</u>			

LOCATION		Location ID: <u>174</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>(ft)</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1334</u>	<u>2.0</u>	<u>11.5</u>	<u>Y</u>	<u>Grab 2</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-174</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>leaf litter, tr. wood/organic debris.</u> <u>RPD not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	<u>drab olive</u>	<u>slight</u>	petroleum	
sand (F M C)	<u>brown</u>	<u>moderate</u>	other:	
<u>silt</u>	<u>gray</u>	<u>strong</u>		
clay	<u>black</u>			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 03.01.18 Weather: low SD's, partly cloudy  
 Sampling Method: pneumatic grab sampler Crew: N. Mous, R Crawford, TDD

LOCATION		Location ID: <u>Outfall 2507</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>11.8</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1419</u>	<u>6.8</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SSOT-2507</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel <u>tr</u> sand (F M C) silt <u>tr</u> clay	brown surface <u>tr</u> drab olive brown gray <u>dark</u> black	none <u>tr</u> H <sub>2</sub> S slight petroleum moderate other: strong		
true plant debris RPD not visible.				

LOCATION		Location ID: <u>Outfall FedCtrs</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>11.8</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1516</u>	<u>16.8</u>	<u>14</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SSOT-FedCtrs</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel sand (F M C) silt <u>tr</u> clay	brown surface drab olive brown gray black	none <u>tr</u> H <sub>2</sub> S slight petroleum moderate other: strong		
shell fragments RPD not visible				

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 3/2/18 Weather: 40°F, cloudy  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-083</u> <b>DISPOSED</b>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>1.5</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0805/0810/0818</u>	<u>8.2/8.2/8.2</u>	<u>NA</u>	<u>N</u>	<u>insufficient penetration depth</u>
<u>0822/0825/0833</u>	<u>9.4/8.7/13.4</u>	<u>NA/NA/19</u>	<u>N/N/Y</u>	<u>insufficient penetration / gravel + cobbles / collected within 10m</u> <u>Grab 7 collected @ 0842: washed out</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-083</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	May resample this location w/ re-randomize coordinates Resampled @ 1101 @ re-randomized loc. 1; This sample disposed of on location Shell fragments, RPD: not visible	
<u>gravel</u>	drab olive	slight petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-080</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>1.5</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0900</u>	<u>28.5</u>	<u>27</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-080</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	Shell fragments, worms, worm tubes, oil sheen RPD: not visible	
gravel	drab olive	slight petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: A0C3 Project no.: sediment sampling  
 Date: 3/2/18 Weather: 40s, cloudy  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-078</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>mft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0911</u>	<u>19.9</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-078</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	H <sub>2</sub> S	<u>oil sheen, worms, barnacles, shell fragments</u>  <u>RPD: @ 2cm</u>
gravel	drab olive	<u>slight</u>	petroleum	
<u>sand</u> (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong	<u>fungal odor</u>	
clay	black			

LOCATION		Location ID: <u>SS-084</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>mft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0926</u>	<u>30.4</u>	<u>27</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-084</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>oil sheen, <sup>shells</sup> mussels, worms, crab shell, barnacles</u>  <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
<u>clay</u>	black			



# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 3/2/18 Weather: 40s, cloudy  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-077</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>ft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0937</u>	<u>36.1</u>	<u>28</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LPW18-SS-077</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>trace shell fragments, worms, oil sheen</u>  <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

LOCATION		Location ID: <u>SS-075</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>ft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0951</u>	<u>36.0</u>	<u>27</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LPW18-SS-075</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>trace shell fragments, slight oil sheen, worms</u>  <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: A0C3 Project no.: sediment sampling  
 Date: 3/2/18 Weather: 40s, cloudy  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-076</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>17.7</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1001</u>	<u>17.7</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-076</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>oil sheen, shell fragments, barnacles, worms</u>  <u>RPD @ 2 cm</u>	
<u>gravel</u>	drab olive	slight petroleum		
<u>sand (F)(M)(C)</u>	brown	moderate other:		
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-074</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>7.6</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1014</u>	<u>7.6</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-074</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>shell fragments, oil sheen,</u>  <u>RPD: not visible</u>	
<u>gravel</u>	drab olive	slight petroleum		
<u>sand (F)(M)(C)</u>	<u>brown</u>	moderate other:		
<u>silt</u>	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: sediment sampling  
 Date: 3/2/18 Weather: 40s, cloudy  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-073</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>m</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1023</u>	<u>38.9</u>	<u>NA</u>	<u>N</u>	<u>over-penetrated</u>
<u>1029</u>	<u>38.6</u>	<u>28</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-073</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>Worms, organic matter,</u>  <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

LOCATION		Location ID: <u>SS-071</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>m</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1041</u>	<u>27.1</u>	<u>NA</u>	<u>N</u>	<u>washed out</u>
<u>1044</u>	<u>26.3</u>	<u>14</u>	<u>Y</u>	<u>slipping @ location</u>
SAMPLE DATA		Sample ID: <u>LOW18-SS-071</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>	<u>RPD @ 0.25 cm</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	<u>moderate</u>	other:	
<u>silt</u>	<u>gray dark</u>	strong		
<u>clay</u>	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: A0C3 Project no.: Sediment sampling  
 Date: 3/2/18 Weather: 40s, partly cloudy  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-083</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>11.7</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1101</u>	<u>25.2</u>	<u>29</u>	<u>Y</u>	<u>collected @ re-randomized location 1</u> <u>replaces previous sample collected</u> <u>@ SS-083</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-083</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>oil sheen, worms</u>  <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-079</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>11.7</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1118</u>	<u>32.8</u>	<u>25</u>	<u>Y</u>	<u>collected @ re-randomized location 1</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-079</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>	<u>worms</u>  <u>RPD: not visible</u>
gravel	drab olive	<u>slight</u>	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
<u>clay</u>	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 3/2/18 Weather: 40s, partly cloudy  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-013</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1214</u>	<u>37.3</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-013</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>worms, worm tubes, shell fragments</u>  <u>RPD: not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
<u>clay</u>	black			

LOCATION		Location ID: <u>SS-017</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1225</u>	<u>47.1</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-017</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>Snail, shell fragments, organic matter, worms</u> <u>RPD @ 1cm</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
<u>clay</u>	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: sediment sampling  
 Date: 3/2/18 Weather: 70s, cloudy  
 Sampling Method: power grab Crew: JK, RM, KM

LOCATION		Location ID: <u>SS-018</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>23.7</u>	Penetration depth (cm) <u>22</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>1239</u>	<u>23.7</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-018</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>shell fragments, barnacles, worms, worm tubes</u>  <u>RPD: not visible</u>
<u>gravel</u>	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray</u> <u>dark</u>	strong		
<u>clay</u>	black			

LOCATION		Location ID: <u>SS-020</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>27.3</u>	Penetration depth (cm) <u>21</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>1249</u>	<u>27.3</u>	<u>21</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-020</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>graceful crab, 2 sea pens, worms, worm tubes, shell fragments</u>  <u>RPD: not visible</u>
<u>gravel</u>	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: A003 Project no.: Sediment sampling  
 Date: 3/2/18 Weather: 40s, cloudy  
 Sampling Method: pinner grab Crew: JK, RM, KM

LOCATION		Location ID: <u>SS-019</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>NA</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1301</u>	<u>44.1</u>	<u>27</u>	<u>Y</u>	<u>collected w/in 10m of re-randomized loc. 1</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-019</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>RPD: @ 0.75 cm</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-021</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>NA</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1311</u>	<u>45.6</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-021</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>	<u>Worm tubes, trace shell fragments, organic matter, RPD: @ 0.75 cm</u>
gravel	drab olive	<u>slight</u>	petroleum	
<u>sand</u> (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u> <u>dark</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 3/2/18 Weather: 40s, cloudy w/ showers  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-022</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <del>ft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1321</u>	<u>42.0</u>	<u>13</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LOW18-SS-022</u>				
Sediment type	Sediment color	Sediment odor		Comments: <u>See pen, snail, shell fragments, worms</u>  <u>RPD: @ 1.5 cm</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	gray	strong		
<u>clay</u>	<u>black</u>			

LOCATION		Location ID: <u>SS-024</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <del>ft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1333</u>	<u>37.8</u>	<u>27</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LOW18-SS-024</u>				
Sediment type	Sediment color	Sediment odor		Comments: <u>worms, barnacles, organic matter</u>  <u>RPD: @ 0.5 cm</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
<u>gravel</u>	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			



# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: sediment sampling  
 Date: 3/2/18 Weather: 40s, showers  
 Sampling Method: power grab Crew: JK, RM, KM

LOCATION		Location ID: <u>SS-044</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <del>ft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1358</u>	<u>6.7</u>	<u>13</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-044</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	brown surface	<u>none</u> H <sub>2</sub> S	<u>organic matter (roots), mussel shell, shell fragments</u>  <u>RPD: not visible</u>	
gravel	drab olive	slight petroleum		
<u>sand (F)(M)(C)</u>	<u>brown</u>	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
<u>clay</u>	black			

LOCATION		Location ID: <u>SS-053</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <del>ft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1407</u>	<u>43.4</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-053</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>organic matter, shell fragments, worms</u>  <u>RPD: @ 0.75 cm</u>	
gravel	drab olive	slight petroleum		
<u>sand (F)(M)(C)</u>	brown	moderate other:		
<u>silt</u>	<u>gray dark</u>	strong		
<u>clay</u>	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: sediment sampling  
 Date: 3/2/18 Weather: 40s, cloudy  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-055</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>MA</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1444</u>	<u>40.7</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW18-SS-055</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>organic matter</u>  <u>RPD: @ 1cm</u>	
gravel	drab olive	slight petroleum		
<u>sand (F/M C)</u>	<u>brown</u>	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>SS-056</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>MA</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1456</u>	<u>36.6</u>	<u>25</u>	<u>Y</u>	<u>collected @ re-randomized loc. 1</u>
SAMPLE DATA		Sample ID: <u>LOW18-SS-056</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>trace shell fragments, worms</u>  <u>RPD: @ 0.75cm</u>	
gravel	drab olive	slight petroleum		
<u>sand (F/M C)</u>	brown	moderate other:		
<u>silt</u>	<u>gray dark</u>	strong		
<u>clay</u>	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: A0C3 Project no.: sediment sampling  
 Date: 3/2/18 Weather: 40s, rain showers  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-057</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>ft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1509</u>	<u>32.5</u>	<u>25</u>	<u>Y</u>	<u>collected @ re-randomized loc. 2, w/in 10 m</u>
SAMPLE DATA		Sample ID:		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>	<u>organic matter, shell fragments, worms, trace oil sheen</u> <u>pockets of black material in unhomogenized sample</u> <u>RPD: not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	<u>strong</u>		
<u>clay</u>	black			

LOCATION		Location ID: <u>SS-058</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <del>ft</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1524</u>	<u>35.0</u>	<u>28</u>	<u>Y</u>	<u>collected @ re-randomized loc. 1</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-058</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>oil sheen, organic matter, worms,</u> <u>RPD: not visible</u> <u>zip tie in grab grab</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
<u>clay</u>	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: Sediment sampling  
 Date: 3/2/18 Weather: 40s, cloudy w/ showers  
 Sampling Method: power grab Crew: JR, RM, KM

LOCATION		Location ID: <u>SS-054</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1534</u>	<u>15.7</u>	<u>13</u>	<u>Y</u>	<u>Collected @ re-randomized loc. 1 (grab 7)</u> <u>(Grabs 1-6 washed out)</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-054</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H <sub>2</sub> S	<u>Shell fragments, organic matter</u>  <u>RPD: not visible</u>
<u>gravel</u>	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

LOCATION		Location ID:		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
SAMPLE DATA		Sample ID:		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H <sub>2</sub> S	<u>1cm 3/2/18</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 03.02.18 Weather: 30s, cloudy  
 Sampling Method: pneumatic grab sampler Crew: N. Maas, T. Do, R. Crawford

LOCATION		Location ID: <u>177</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>12.7</u>	Penetration depth (cm) <u>25</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>0749</u>				
SAMPLE DATA		Sample ID: <u>LDW18-SS-177</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>shell fragments</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>072</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>15.3</u>	Penetration depth (cm) <u>24</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>0802</u>				
SAMPLE DATA		Sample ID: <u>LDW18-SS-072</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>shell fragments</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 03.02.18 Weather: 30s, cloudy  
 Sampling Method: pneumatic grab sampler Crew: N. Maas, T. Do, P. Crawford

LOCATION		Location ID: <u>Outfall GlacierNW-CBP</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <del>(ft)</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0826</u>	<u>20.4</u>	<u>25.5</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SSOT-GlacierNW-CBP</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>shell fragments, worms, tr. org. material</u> <u>RPD not visible.</u>
<u>gravel</u> <del>none</del>	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u> <del>dk</del>	strong		
clay	black			

LOCATION		Location ID: <u>081</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <del>(ft)</del>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>0849</u>	<u>24.8</u>	<u>20</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-081</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>shell fragment, worms, worm tubes,</u> <u>tr. org. material</u> <u>RPD not visible.</u>
<u>gravel</u> <del>tr</del>	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u> <del>dk</del>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 13.02.18 Weather: 30s, cloudy.  
 Sampling Method: pneumatic grab sampler Crew: N. Maas, T. Do, R Crawford

LOCATION		Location ID: <u>082</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>0.1</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>09:10</u>	<u>24.9</u>	<u>17</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-082</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>(alternate or randomized location)</u> <u>RPD not visible</u> <u>tr- org material, worms.</u>
cobble <input checked="" type="checkbox"/> gravel <input checked="" type="checkbox"/> sand (F M C) <input checked="" type="checkbox"/> silt clay	<input checked="" type="checkbox"/> brown surface drab olive brown <input checked="" type="checkbox"/> gray black	<input checked="" type="checkbox"/> none slight moderate strong	H <sub>2</sub> S petroleum other:	

LOCATION		Location ID: <u>081</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>0.1</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>09:55</u>	<u>0</u>	<u>10</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-081</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>GPS coord. -122.34834° (7 sat.)</u> <u>47.55864</u> <u>high amount of org. matter, plant (root) debris.</u>
cobble <input checked="" type="checkbox"/> gravel <input checked="" type="checkbox"/> sand (F M C) <input checked="" type="checkbox"/> silt clay	brown surface <input checked="" type="checkbox"/> drab olive <input checked="" type="checkbox"/> brown gray black	<input checked="" type="checkbox"/> none slight moderate strong	H <sub>2</sub> S petroleum other:	

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOCB Project no.: TASK 4  
 Date: 03.02.18 Weather: 40S, cloudy  
 Sampling Method: pneumatic grab sampler Crew: N. Meas, T. Do, R Crawford

LOCATION		Location ID: <u>187</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>4.2</u>	Penetration depth (cm) <u>11</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>1131</u>				<u>Grab 4</u>
SAMPLE DATA		Sample ID: <u>LDW18-SS-187</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S		<u>shell fragments/wood/plant debris</u> <u>RPD not visible</u> <u>re-located from previously collected target coord.</u>
<u>gravel</u>	drab olive	slight petroleum		
sand (F M C) <u>(F M C)</u>	<u>brown</u>	moderate other:		
<u>silt</u> tr.	gray	strong		
clay	black			

LOCATION		Location ID: <u>183</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>19.2</u>	Penetration depth (cm) <u>28</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>1224</u>				
SAMPLE DATA		Sample ID: <u>LDW18-SS-183</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S		<u>worms, shell frag, tr. plant debris</u> <u>RPD not visible</u>
gravel	drab olive	slight petroleum		
sand (F M C) <u>(F M C)</u>	brown	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			



# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 03.02.18 Weather: 40s, cloudy  
 Sampling Method: pneumatic grab sampler Crew: N. Maas, T. Do, & Crawford

LOCATION		Location ID: <u>061</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>1.1</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1301</u>	<u>26.0</u>	<u>18</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-061</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>worms, shell frag, leaf litter</u> <u>RPD not visible</u>	
gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray dk</u>	strong		
clay	black			

LOCATION		Location ID: <u>049</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>1.1</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1316</u>	<u>26.3</u>	<u>16</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-049</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>worms, plant debris, shell frag. (trace)</u> <u>RPD not visible</u> <u>used 2nd re-randomized coordinates.</u>	
gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray dk</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 03.02.18 Weather: 40s, cloudy  
 Sampling Method: pneumatic grab sampler Crew: N. Maas, T. Do, R. Crawford

LOCATION		Location ID: <u>060</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>YH</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1336</u>	<u>37.9</u>	<u>28.5</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-060</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>worms, wood debris, tr. org. matter</u> <u>RPD not visible</u>	
gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>059</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>YH</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1352</u>	<u>38.9</u>	<u>12</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-059</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	<u>worms, leaf litter, shell frag.</u> <u>RPD not visible</u>	
gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC3 Project no.: TASK 4  
 Date: 03.02.18 Weather: 40s, overcast  
 Sampling Method: pneumatic grab sampler Crew: N. Maas, T. Do, R Crawford

LOCATION		Location ID: <u>062</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>YH</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1410</u>	<u>37.9</u>	<u>29</u>	<u>Y</u>	
original target (barge moved)				
SAMPLE DATA		Sample ID: <u>LDW18-SS-062</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>shell frag, worms, org matter.</u> <u>RPD not visible</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>063</u>		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) <u>YH</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1426</u>	<u>25.1</u>	<u>16</u>	<u>Y</u>	
SAMPLE DATA				
SAMPLE DATA		Sample ID: <u>LDW18-SS-063</u>		
Sediment type	Sediment color	Sediment odor		Comments: <u>RPD not visible</u> <u>worms, shell fragments.</u>
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u> <u>very dark</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: ADCB Project no.: TASK 4  
 Date: 03.02.18 Weather: 40s, overcast  
 Sampling Method: pneumatic grab sampler Crew: N. Maas, T. Do, & Crawford

LOCATION		Location ID: <u>Outfall 2509</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>0.4</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1509</u>	<u>3.4</u>	<u>13</u>	<u>Y</u>	<u>Grab 6</u>
SAMPLE DATA		Sample ID: <u>LDW18-SSOT-2509</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>abundant plant material (root fibers)</u> <u>organic material</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u> <u>dark</u>	strong		
clay	black			

LOCATION		Location ID: <u>052</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>0.4</u>	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1532</u>	<u>28.7</u>	<u>27</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW18-SS-052</u>		
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	<u>SUS location</u> <u>worms, <del>water</del> etc.</u> <u>to plant/wood debris</u> <u>RPD not visible</u> <u>re-randomized location (1st)</u>
gravel <u>dr.</u>	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: ADC3 Project no.: TASK 4  
 Date: 03.08.14 Weather: 40's, light rain  
 Sampling Method: pneumatic grab sampler Crew: SR, TD

LOCATION		Location ID: <u>139</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>14.0</u>	Penetration depth (cm) <u>29</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>0846</u>				
SAMPLE DATA		Sample ID: <u>LDW18-SS-139</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S		<u>tr-organic debris RPD not visible isolated pockets of s/hear.</u>
gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

LOCATION		Location ID: <u>Delta Manne Outfall</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) <u>11.2</u>	Penetration depth (cm) <u>29.5</u>	Acceptable sample (Y/N) <u>Y</u>	Comments
<u>0907</u>				
SAMPLE DATA		Sample ID: <u>LDW18-SS-DF-Delta Manne</u>		
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S		<u>RPD not visible</u>
gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

# SURFACE SEDIMENT COLLECTION FORM

Project Name: Duwamish-AOC3 Task no.: Task 4 (dam tissue)  
 Date: 5.15.2018 Weather: cloudy, 60s  
 Sampling Method: Hand Collection Crew: SP2, NM, RC

<b>LOCATION</b>		Location ID: <u>outfall 2510</u>		
Latitude/Northing(Y): <u>GPS</u>			Longitude/Easting(X): <u>GPS</u>	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1023</u>	<u>NA</u>	<u>10 cm</u>	<u>Y</u>	<u>————</u>
<b>SAMPLE DATA</b>		Sample ID: <u>LDW18-SSOT-2510</u>		
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>		<b>Comments:</b>
cobble	brown surface	<u>none</u> H <sub>2</sub> S		<u>warm colored (removed from sample)</u> <u>slight orange color</u> <u>hardly <del>CL</del> SP2</u>
gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:		
silt	<u>gray</u>	strong		
clay	black			

<b>LOCATION</b>		Location ID: <u>outfall 2114</u>		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
<u>1303</u>	<u>—</u>	<u>10 cm</u>	<u>Y</u>	
<b>SAMPLE DATA</b>		Sample ID: <u>LDW18-SSOT-2114</u>		
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>		<b>Comments:</b>
cobble	brown surface	<u>none</u> H <sub>2</sub> S		<u>some shell frags.</u> <u>trace organic debris</u>
<u>gravel</u> <u>trace</u>	drab olive	slight petroleum		
sand (F M C)	<u>brown</u>	moderate other:		
<u>silt</u>	<u>gray</u>	strong		
clay	black			


# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM


Project Name: LDWAOC3

Task No.: 4

Date: 6/12/2018

Sampler(s): L. Read, N. Maas

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL04-A01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		 <p>uniform gray clay throughout. little gravel on surface</p>	
10:00	0-15	maed ~6 ft			
10:00	15-30	out of rip rap			
10:00	30-45	to collect			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	<u>gray</u>	strong			
<u>clay</u>	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL04-A03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		 <p>Brown surface ~ 2cm  uniform dark gray silt</p>	
10:18	45cm				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 12 JUNE 2018 Sampler(s): Remi, KRISTEN

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CLO4-A02</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 100px; height: 100px; display: inline-block;"></div> silt surface, brown  clay, black subsurface  water at base	
<u>10:02</u>	<u>45cm</u>	<u>maxed ~ 5ft due to deep sediment</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	H <sub>2</sub> S		
gravel	drab olive	<u>slight</u>	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	gray	strong			
<u>clay</u>	<u>black</u>				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CLO4-A04</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 100px; height: 100px; display: inline-block;"></div> silt surface, brown  clay, gray  water at base	
<u>10:25</u>	<u>45cm</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	H <sub>2</sub> S		
gravel	drab olive	<u>slight</u>	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black				



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 06.12.18 Sampler(s): J. RHEUBEN

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL11-A01</u>				<b>Additional Notes</b> COBBLE @ SURFACE GRAVEL COURSER SAND/SILT  CLAY	
Sample Time	Penetration depth (cm)	Comments			
<u>1145</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	<u>H<sub>2</sub>S</u>		
gravel	drab olive	<u>slight</u>	petroleum		
sand (F M C) <u>MC</u>	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray dk</u>	strong			
<u>clay</u>	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID:				<b>Additional Notes</b>	
Sample Time	Penetration depth (cm)	Comments			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 12 JUNE 2018 Sampler(s): LORRAINE, KRISTEN

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL11-A03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 50px; height: 100px; display: inline-block;"></div> BROWN SURFACE  SAND W/ GRAVEL  WATER AT BASE	
<u>11:40</u>	<u>45cm</u>	<u>MOVED 3ft OFF DUE TO TIDE</u>			
		<u>SAME HOLE AS BP5-E03</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP5-E03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 50px; height: 100px; display: inline-block;"></div> BROWN SURFACE  SAND W/ GRAVEL  WATER AT BASE	
<u>11:40</u>	<u>45cm</u>	<u>MOVED 3ft OFF DUE TO TIDE</u>			
		<u>SAME HOLE AS CL11-A03</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				


# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM


Project Name: LDWAOC3

Task No.: 4

Date: 2018-06-12

Sampler(s): L. Read, N. Maas

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel core other					
Location ID: <u>CL04-A05</u>				Additional Notes					
Sample Time	Penetration depth (cm)	Comments							
1048	23	 <p>brownish silt top layer 1cm              ← dark gray silt beneath</p> <p>Tried @ 3 locations.              lots of rubble beneath              surface. Max penetration              @ 23 cm. holes quickly              filled w/ water</p>							
SAMPLE DATA									
Sediment type	Sediment color					Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S						
gravel	drab olive	slight	petroleum						
sand (F M C)	brown	moderate	other:						
<u>silt</u>	<u>gray</u>	strong							
clay	black								

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other					
Location ID: <u>CL11-A02</u>				Additional Notes					
Sample Time	Penetration depth (cm)	Comments							
1141	45	 <p>consistent              throughout              down beach of              GPS location</p>							
SAMPLE DATA									
Sediment type	Sediment color					Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S						
gravel	drab olive	slight	petroleum						
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:						
silt	<u>gray</u>	strong							
clay	black								

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/12/10 Sampler(s): Jenna R., Mikey.

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL09-R101</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1035</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
sand (F M C)	<u>brown</u>	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL09-A01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1052</u>	<u>0-45</u>	<u>NONE</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
sand (F M C)	<u>brown</u>	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

w/in water

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6/12/18 Sampler(s): BC

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL09-C03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; padding: 5px; width: 50px; margin: 5px;">clay</div> <div style="border: 1px solid black; padding: 5px; width: 50px; margin: 5px;">Silty</div>	woody debris / organic matter
<u>1023</u>	<u>45</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	<u>brown</u>	moderate	other:		
<u>silt</u>	gray	strong			
<u>clay</u>	black				

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>BPS-D03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; padding: 5px; width: 50px; margin: 5px;"></div>	organic matter (twigs)
<u>1048</u>	<u>45</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>		
gravel	drab olive	<u>slight</u>	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/12/18

Sampler(s): AV

LOCATION DATA		Area Type (circle): <input checked="" type="radio"/> Clam <input type="radio"/> Beach		Sampling Method (circle): <input checked="" type="radio"/> shovel <input type="radio"/> core <input type="radio"/> other	
Location ID: CLO9-C04				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1058	45-30cm	<div style="border: 1px solid black; width: 100%; height: 100%; padding: 5px;">                     moved 6ft over due to rocks                 </div>			
<del>1058</del>	30-15cm				
<del>(1058)</del>	<del>15-0cm</del>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<input checked="" type="radio"/> none	H <sub>2</sub> S		
<input checked="" type="radio"/> gravel	drab olive	<input checked="" type="radio"/> slight	petroleum		
<input checked="" type="radio"/> sand (F M C)	brown	moderate	other:		
silt	<input checked="" type="radio"/> gray	strong			
clay	<input checked="" type="radio"/> black				

LOCATION DATA		Area Type (circle): <input checked="" type="radio"/> Clam <input type="radio"/> Beach		Sampling Method (circle): <input checked="" type="radio"/> shovel <input type="radio"/> core <input type="radio"/> other	
Location ID: BOW-8-BPS-F01				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1215	45-30	<div style="border: 1px solid black; width: 100%; height: 100%; padding: 5px;">                     moved due to rocky area / np rap at target                 </div>			
1215	30-15				
1215	15-0				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
<input checked="" type="radio"/> cobble	brown surface	<input checked="" type="radio"/> none	H <sub>2</sub> S		
<input checked="" type="radio"/> gravel	drab olive	slight	petroleum		
<input checked="" type="radio"/> sand (F M C)	<input checked="" type="radio"/> brown	moderate	other:		
silt	<input checked="" type="radio"/> gray	strong			
<input checked="" type="radio"/> clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/12/18

Sampler(s): A. Edgington, B. Church, A. Van

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): <u>shovel</u> core other				
Location ID: <u>CL09-C02</u>		<b>Additional Notes</b>					
Sample Time	Penetration depth (cm)	Comments					
<u>0932</u>	<u>45</u>	Sample location moved ~ 3ft to assure depth reached					
<div style="border: 1px solid black; width: 100%; height: 100%; padding: 5px;">                 Sediment profile consistent throughout             </div>							
				<b>SAMPLE DATA</b>			
				Sediment type	Sediment color	Sediment odor	
				cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S
				gravel	drab olive	slight	petroleum
<u>sand (F M C)</u>	brown	moderate	other:				
<u>silt</u>	<u>gray</u>	strong					
clay	black						

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>	Sampling Method (circle): <u>shovel</u> core other				
Location ID: <u>BPS-DD2</u>		<b>Additional Notes</b>					
Sample Time	Penetration depth (cm)	Comments					
<u>0945</u>	<u>45</u>						
<div style="border: 1px solid black; width: 100%; height: 100%; padding: 5px;">                 sed consistent throughout             </div>							
				<b>SAMPLE DATA</b>			
				Sediment type	Sediment color	Sediment odor	
				cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>
				gravel	drab olive	<u>slight</u>	petroleum
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:				
<u>silt</u>	<u>gray</u>	strong					
clay	black						

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6.12.18 Sampler(s): JRHEUBEN

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>LDW18-1T45-BP5-DØ1</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		NA	TAKEN w/ CORE TUBE Shell fragments
<u>0921</u>	<u>0-15</u>				
<u>0921</u>	<u>15-30</u>				
<u>0921</u>	<u>30-45</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
sand (F <u>M</u> <u>C</u> )	<u>brown</u>	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>LDW18-1T45-CL09-CØ1</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		NA	SANDY/M-C SILTY + Fines Some WOODY DEBRIS
<del>0948</del>	<u>0-15</u>	<u>N</u>			
<del>0949</del>	<u>15-30</u>	<u>N</u>			
<u>0950</u>	<u>30-45</u>	<u>N</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
sand (F <u>M</u> <u>C</u> )	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6.12.18 Sampler(s): MY, NM



<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel core other	
Location ID: <u>CL13-AP3</u>				Additional Notes  cobble & gravel on surface. algae filaments on surface	
Sample Time	Penetration depth (cm)	Comments			
<u>1224</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID:				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6-12-18 Sampler(s): R Mathomet A. Edgington

<b>LOCATION DATA</b>		<b>Area Type (circle):</b> Clam <u>Beach</u>		<b>Sampling Method (circle):</b> <u>shovel</u> core other	
Location ID: <u>BPS-ED2</u>				<b>Additional Notes</b>  sand  silt/clay  brown & orange through out	
<b>Sample Time</b>	<b>Penetration depth (cm)</b>	<b>Comments</b>			
<u>11:49</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F/M/C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black				

<b>LOCATION DATA</b>		<b>Area Type (circle):</b> Clam Beach		<b>Sampling Method (circle):</b> shovel core other	
Location ID:				<b>Additional Notes</b>	
<b>Sample Time</b>	<b>Penetration depth (cm)</b>	<b>Comments</b>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 12 JUN 2018

Sampler(s): LORRAINE KRISTEN

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other																																											
Location ID: <u>CL13-A02</u>				Additional Notes																																											
Sample Time	Penetration depth (cm)	Comments																																													
<u>12:05</u>	<u>45cm</u>	<u>—</u>																																													
<table border="1"> <tr> <th colspan="6">SAMPLE DATA</th> </tr> <tr> <th>Sediment type</th> <th>Sediment color</th> <th colspan="4">Sediment odor</th> </tr> <tr> <td><u>cobble</u></td> <td>brown surface</td> <td><u>none</u></td> <td>H<sub>2</sub>S</td> <td colspan="2"></td> </tr> <tr> <td><u>gravel</u></td> <td>drab olive</td> <td>slight</td> <td>petroleum</td> <td colspan="2"></td> </tr> <tr> <td><u>sand (F M C)</u></td> <td><u>brown</u></td> <td>moderate</td> <td>other:</td> <td colspan="2"></td> </tr> <tr> <td>silt</td> <td><u>gray</u></td> <td>strong</td> <td></td> <td colspan="2"></td> </tr> <tr> <td>clay</td> <td>black</td> <td></td> <td></td> <td colspan="2"></td> </tr> </table>						SAMPLE DATA						Sediment type	Sediment color	Sediment odor				<u>cobble</u>	brown surface	<u>none</u>	H <sub>2</sub> S			<u>gravel</u>	drab olive	slight	petroleum			<u>sand (F M C)</u>	<u>brown</u>	moderate	other:			silt	<u>gray</u>	strong				clay	black				
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silt	<u>gray</u>	strong																																													
clay	black																																														
ROCK AND COBBLE THROUGHOUT. CRUSHED BRICK AT DEPTH. SAND AT DEPTH																																															

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other																																											
Location ID: <u>BPS-<del>E02</del> F02</u>				Additional Notes																																											
Sample Time	Penetration depth (cm)	Comments																																													
<u>12:13</u>	<u>45cm</u>	<u>—</u>																																													
<table border="1"> <tr> <th colspan="6">SAMPLE DATA</th> </tr> <tr> <th>Sediment type</th> <th>Sediment color</th> <th colspan="4">Sediment odor</th> </tr> <tr> <td><u>cobble</u></td> <td>brown surface</td> <td><u>none</u></td> <td>H<sub>2</sub>S</td> <td colspan="2"></td> </tr> <tr> <td><u>gravel</u></td> <td>drab olive</td> <td>slight</td> <td>petroleum</td> <td colspan="2"></td> </tr> <tr> <td><u>sand (F M C)</u></td> <td><u>brown</u></td> <td>moderate</td> <td>other:</td> <td colspan="2"></td> </tr> <tr> <td>silt</td> <td><u>gray</u></td> <td>strong</td> <td></td> <td colspan="2"></td> </tr> <tr> <td>clay</td> <td>black</td> <td></td> <td></td> <td colspan="2"></td> </tr> </table>						SAMPLE DATA						Sediment type	Sediment color	Sediment odor				<u>cobble</u>	brown surface	<u>none</u>	H <sub>2</sub> S			<u>gravel</u>	drab olive	slight	petroleum			<u>sand (F M C)</u>	<u>brown</u>	moderate	other:			silt	<u>gray</u>	strong				clay	black				
						SAMPLE DATA																																									
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<u>sand (F M C)</u>	<u>brown</u>	moderate	other:																																												
silt	<u>gray</u>	strong																																													
clay	black																																														
medium sand throughout. ROCK + COBBLE THROUGHOUT. BRICK FRAGMENT																																															

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 12 JUN 2018 Sampler(s): KRISTEN, LORRAINE



<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BPE-F05</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>12:17</u>	<u>45cm</u>	<u>—————</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
<u>cobble</u>	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	<u>brown</u>	moderate	other:		
silt	gray	strong			
clay	black				

UNIFORM SAND THROUGHOUT.  
MINIMUM COBBLES  
  
DRY



<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL13-A04</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>12:18</u>	<u>45cm</u>	<u>—————</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
<u>cobble</u>	brown surface	<del>none</del>	<u>H<sub>2</sub>S</u>		
gravel	drab olive	slight	petroleum		
sand (F M C)	<u>brown</u>	moderate	other:		
silt	gray	strong			
clay	<u>black</u>				

MEDIUM SAND THROUGHOUT  
  
ELECTRICAL CONDUIT IN HOLE  
SOME BLACK SEDIMENT  
WATER @ BASE

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6.12.18 Sampler(s): my, NM

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL13-A01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1207</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP5-F04</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1215</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/12/10

Sampler(s): Mike Yaros, Aaron Edgington

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: BPS-C01				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1105	45				
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: BPS-E01				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1147	45				
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray dark	strong			
clay	black				

Top 15 cm = fine to coarse sand and (silt)  
15 - 45 cm = silt and clay

### INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: *†*  
 Date: 10/12/18 Sampler(s): Remy M., Aaron E



<b>LOCATION DATA</b>		<b>Area Type (circle):</b> Clam <u>Beach</u>		<b>Sampling Method (circle):</b> <u>shovel</u> core other	
Location ID: <u>B05-F03</u>		Additional Notes			
<b>Sample Time</b>	<b>Penetration depth (cm)</b>	<b>Comments</b>			
<u>1225</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	<u>drab olive</u>	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black <u>Red Clay</u>				

<b>LOCATION DATA</b>		<b>Area Type (circle):</b> Clam Beach		<b>Sampling Method (circle):</b> shovel core other	
Location ID:		Additional Notes			
<b>Sample Time</b>	<b>Penetration depth (cm)</b>	<b>Comments</b>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 06/12/13 Sampler(s): Amara J, Brian C

<b>LOCATION DATA</b>		Area Type (circle): Clam <input type="checkbox"/> Beach <input checked="" type="checkbox"/>		Sampling Method (circle): shovel <input checked="" type="checkbox"/> core <input type="checkbox"/> other <input type="checkbox"/>	
Location ID: <u>BPS-D04</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			glass silty throughout profile
<u>1105</u>	<u>45</u>	<u>moved &lt; 3 ft due to rocks</u>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam <input type="checkbox"/> Beach <input type="checkbox"/>		Sampling Method (circle): shovel <input type="checkbox"/> core <input type="checkbox"/> other <input type="checkbox"/>	
Location ID: <u> </u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6/13/18 Sampler(s): Mike Y, Rachel C.

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): shovel <u>core</u> other
Location ID: <u>CL05-B02</u>		<b>Additional Notes</b>	
Sample Time	Penetration depth (cm)	Comments	
<u>9:32</u>	<u>45</u>	<u>uniform throughout</u>	
<b>SAMPLE DATA</b>			
Sediment type	Sediment color	Sediment odor	
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S
gravel	drab olive	slight	petroleum
<u>sand (F M C)</u>	brown	moderate	other:
silt	<u>gray</u>	strong	
clay	black		

woody debris throughout

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): shovel <u>core</u> other
Location ID: <u>CL05-B01</u>		<b>Additional Notes</b>	
Sample Time	Penetration depth (cm)	Comments	
<u>9:43</u>	<u>45</u>		
<b>SAMPLE DATA</b>			
Sediment type	Sediment color	Sediment odor	
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>
gravel	drab olive	slight	petroleum
<u>sand (F M C)</u>	brown	<del>moderate</del>	other:
silt	<u>gray</u>	<u>strong</u>	
<u>clay</u>	black		

woody debris throughout  
gravel throughout  
15cm-30cm clay present



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/13/15 Sampler(s): MY, RC

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL05-B03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>11:08</u>	<u>45</u>	<div style="border: 1px solid black; width: 100%; height: 100%; padding: 5px;"> <ul style="list-style-type: none"> <li>• target location moved down beach due to riprap</li> <li>• small eel-like fish found in mud</li> <li>• woody debris throughout</li> </ul> </div>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	<u>moderate</u>	other:		
silt	<u>gray</u>	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL*06-A02</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>11:52</u>	<u>45</u>	<div style="border: 1px solid black; width: 100%; height: 100%; padding: 5px;"> <ul style="list-style-type: none"> <li>• target location moved due to riprap</li> </ul> </div>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/13/18 Sampler(s): MY, RC

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL06-A01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>12:14</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
<u>cobble</u>	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	top } cobble/riprap surface, then gravel & sand throughout (relocated due to riprap) bottom } → silt w/ sand (F, M, C) and gravel	
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray Dark</u>	strong			
<u>clay</u>	black				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL06-A03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>12:26</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
<u>cobble</u>	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	cobble 5cm } relocated due to riprap sand + gravel throughout sand cracks at location Clay } 35cm	
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: 4

Date: 6/13/10

Sampler(s): M.Y., R.C.

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL03-C02</u>				<b>Additional Notes</b>	
Sample Time	Penetration depth (cm)	Comments			
13:00	45	<div style="border: 1px solid black; padding: 5px;">                     organic matter throughout                      fibrous                      clay &amp; silt throughout                 </div>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>		
gravel	drab olive	<u>slight</u>	petroleum		
sand (F M C)	<u>brown</u>	moderate	other:		
<u>silt</u>	gray	strong			
<u>clay</u>	black				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL03-C01</u>				<b>Additional Notes</b>	
Sample Time	Penetration depth (cm)	Comments			
13:09	45	<div style="border: 1px solid black; padding: 5px;">                     clay throughout                      sample location moved                      (rip rap)                 </div>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	<u>gray</u>	strong			
<u>clay</u>	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

A

Project Name: LDWAOC3

Task No.:

Date:

6/13/18

Sampler(s):

BC, TD, JR, AE

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other						
Location ID: <u>BS-EP7</u>				Additional Notes						
Sample Time	Penetration depth (cm)	Comments								
1045	45 ✓	lost some from core								
<div style="border: 1px solid black; width: 100%; height: 100%;"></div> <p>moved; location in rip rap very wet location uniform silt</p>										
						<b>SAMPLE DATA</b>				
						Sediment type	Sediment color	Sediment odor		
						cobble	brown surface	none	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum							
sand (F M C)	brown	moderate	other:							
silt	gray	strong								
clay	black									

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other						
Location ID: <u>CLB-AD5</u>				Additional Notes						
Sample Time	Penetration depth (cm)	Comments								
<del>1115</del> 1120	45 ✓									
<div style="border: 1px solid black; width: 100%; height: 100%;"></div> <p>uniform mix T black in 30-45 gray, clayey on top sand mixed throughout</p>										
						<b>SAMPLE DATA</b>				
						Sediment type	Sediment color	Sediment odor		
						cobble	brown surface	none	H <sub>2</sub> S	
gravel	drab olive	slight	petroleum							
sand (F M C)	brown	moderate	other:							
silt	gray	strong								
clay	black									

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: 4

Date: 6/13/18

Sampler(s): BC, TD, AE, JR

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>BPS-ED9</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1200	45	<div style="border: 1px solid black; padding: 5px;">                     black silt on top                      gravelly at 15+ cm                       moved:                      rip rap                 </div>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S			
<u>gravel</u>	<u>drab olive</u>	slight petroleum			
<u>sand (F M C)</u>	brown	moderate other:			
<u>silt</u>	<u>gray</u>	strong			
clay	<u>black</u>				

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL13-A09</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1220	45	<div style="border: 1px solid black; padding: 5px;">                     moved: tide coming up                       layered at depth,                      sandy at 0-15 cm                 </div>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u> <u>H<sub>2</sub>S</u>			
gravel	<u>drab olive</u>	<u>slight</u> petroleum			
<u>sand (F M C)</u>	brown	moderate other:			
<u>silt</u>	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/13/18

Sampler(s): BC, TD, AE, JR

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: C113-AP8				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1230	45				
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown-red	moderate	other:		
silt	gray	strong			
clay	black				

red sediment dominant throughout w/ siltier at surface 0-15 cm  
~~mud~~

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: BPS-F13				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1305	45				
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

clayey at depth, sandier on top  
moved: rip rap and wood waste



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/13/18

Sampler(s): JR, BC, AE, TD

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>BPS - B01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>0950</u>	<u>45</u>	<div style="border: 1px solid black; padding: 5px; display: inline-block;">                 moved: rip rap wall;                  target loc not                  on beach                   med sand             </div>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	<u>drab olive</u>	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	gray	strong			
<u>clay</u>	black				

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>BPS - F06</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1100</u>	<u>45</u>	<div style="border: 1px solid black; padding: 5px; display: inline-block;">                 med sand             </div>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	<u>drab olive</u>	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	gray	strong			
<u>clay</u>	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6.13.18

Sampler(s): JR AE

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): shovel <u>core</u> other							
Location ID: <u>BPS-F10</u>				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
<u>1207</u>	<u>45</u>	<u>NONE</u>									
<div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"> <div style="position: absolute; top: 10%; right: 10%; font-size: 1.2em;">                 BROWN SURFACE w/ TRACE gravel  V. SOFT             </div> </div>											
						SAMPLE DATA					
						Sediment type	Sediment color	Sediment odor			
						cobble gravel <u>sand (F M C)</u> silt clay	<u>brown surface</u> drab olive brown <u>gray</u> black	none <u>H<sub>2</sub>S</u> slight petroleum moderate other: strong			

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): shovel <u>core</u> other							
Location ID: <u>BPS-F14</u>				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
<u>1226</u>	<del>40</del> <u>45</u>										
<div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"> </div>											
						SAMPLE DATA					
						Sediment type	Sediment color	Sediment odor			
						cobble <u>gravel</u> sand (F M C) silt clay	<u>brown surface</u> <u>drab olive</u> brown gray black	none H <sub>2</sub> S slight petroleum moderate other: strong			

black rust red at bottom of core

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 06.13.14

Sampler(s): JP AE

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): shovel <u>core</u> other																																											
Location ID: <u>BPO5-F12</u>				Additional Notes																																											
Sample Time	Penetration depth (cm)	Comments																																													
<u>1231</u>	<u>45</u>	<u>NONE</u>																																													
<table border="1"> <tr> <td colspan="2">SAMPLE DATA</td> <td colspan="4"></td> </tr> <tr> <td>Sediment type</td> <td>Sediment color</td> <td colspan="4">Sediment odor</td> </tr> <tr> <td>cobble</td> <td><u>brown surface</u></td> <td><u>none</u></td> <td colspan="3"><u>H<sub>2</sub>S</u></td> </tr> <tr> <td>gravel</td> <td>drab olive</td> <td>slight</td> <td colspan="3">petroleum</td> </tr> <tr> <td><u>sand (F M C)</u></td> <td>brown</td> <td>moderate</td> <td colspan="3">other:</td> </tr> <tr> <td><u>silt</u></td> <td><u>gray</u></td> <td>strong</td> <td colspan="3"></td> </tr> <tr> <td><u>clay</u></td> <td>black</td> <td></td> <td colspan="3"></td> </tr> </table>						SAMPLE DATA						Sediment type	Sediment color	Sediment odor				cobble	<u>brown surface</u>	<u>none</u>	<u>H<sub>2</sub>S</u>			gravel	drab olive	slight	petroleum			<u>sand (F M C)</u>	brown	moderate	other:			<u>silt</u>	<u>gray</u>	strong				<u>clay</u>	black				
						SAMPLE DATA																																									
Sediment type	Sediment color	Sediment odor																																													
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<u>silt</u>	<u>gray</u>	strong																																													
<u>clay</u>	black																																														

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): shovel <u>core</u> other																																											
Location ID: <u>BPS-F11</u>				Additional Notes																																											
Sample Time	Penetration depth (cm)	Comments																																													
<u>1250</u>	<u>45</u>	<u>None</u>																																													
<table border="1"> <tr> <td colspan="2">SAMPLE DATA</td> <td colspan="4"></td> </tr> <tr> <td>Sediment type</td> <td>Sediment color</td> <td colspan="4">Sediment odor</td> </tr> <tr> <td>cobble</td> <td><u>brown surface</u></td> <td><u>none</u></td> <td colspan="3"><u>H<sub>2</sub>S</u></td> </tr> <tr> <td>gravel</td> <td>drab olive</td> <td><u>slight</u></td> <td colspan="3">petroleum</td> </tr> <tr> <td>sand (F M C)</td> <td>brown</td> <td>moderate</td> <td colspan="3">other:</td> </tr> <tr> <td><u>silt</u></td> <td><u>gray</u></td> <td>strong</td> <td colspan="3"></td> </tr> <tr> <td><u>clay</u></td> <td>black</td> <td></td> <td colspan="3"></td> </tr> </table>						SAMPLE DATA						Sediment type	Sediment color	Sediment odor				cobble	<u>brown surface</u>	<u>none</u>	<u>H<sub>2</sub>S</u>			gravel	drab olive	<u>slight</u>	petroleum			sand (F M C)	brown	moderate	other:			<u>silt</u>	<u>gray</u>	strong				<u>clay</u>	black				
						SAMPLE DATA																																									
Sediment type	Sediment color	Sediment odor																																													
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gravel	drab olive	<u>slight</u>	petroleum																																												
sand (F M C)	brown	moderate	other:																																												
<u>silt</u>	<u>gray</u>	strong																																													
<u>clay</u>	black																																														

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/13/18 Sampler(s): AG, JR

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL13-A10</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1310</u>	<u>45</u>	<u>none</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL13-A11</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1330</u>	<u>40</u>	<u>could not penetrate</u>			
		<u>deeper after multiple</u>			
		<u>attempts</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/13/18

Sampler(s): AE, BC, TD, JR

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: BPS-A01				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1019	45				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: BPS-F06				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1045	45 cm				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

Additional Notes: LIGHT BROWN RPDC Depth (no + taken)  
NONE

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/13/18 Sampler(s): AE, JR, TD, BC

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL13-A06</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1125</u>	<u>45</u>	<u>Sample location moved due to rip rap</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	<u>H<sub>2</sub>S</u>		
gravel	drab olive	<u>slight</u>	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL13-A07</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1155</u>	<u>45</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	<u>H<sub>2</sub>S</u>		
gravel	drab olive	<u>slight</u>	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: task 4

Date: 6.13.2018

Sampler(s): SR, LR

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: BPS-G-01				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1337	45cm	<div style="border: 1px solid black; width: 50px; height: 100px; display: inline-block;"></div> } uniform throughout w/ rounded gravel throughout 45cm			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID:				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
		<div style="border: 1px solid black; width: 50px; height: 100px; display: inline-block;"></div>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/13/18 Sampler(s): PK, TP, AE, JR

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): shovel core other	
Location ID: <u>BPS-F15</u>				Additional Notes  <i>uniform throughout</i>	
Sample Time	Penetration depth (cm)	Comments			
<u>1330</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	<u>drab olive</u>	slight	petroleum		
<u>sand</u> (F M C)	brown	moderate	other:		
<u>silt</u>	gray	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID:				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6/13/18 Sampler(s): L. Read

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other							
Location ID: <u>CL07-B01</u>				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
<u>9:50</u>	<u>45</u>										
						SAMPLE DATA					
						Sediment type	Sediment color	Sediment odor			
						cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum								
<u>sand (F M C)</u>	brown	moderate	other:								
silt	<u>gray</u>	strong									
clay	black										

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other							
Location ID: <u>BP4-B01</u>				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
<u>10:15</u>	<u>45cm</u>										
						SAMPLE DATA					
						Sediment type	Sediment color	Sediment odor			
						cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	<u>slight</u>	petroleum								
<u>sand (F M C)</u>	brown	moderate	other:								
silt	<u>gray</u>	strong	<u>organic (algae)</u>								
clay	black										

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: 4

Date: 6/13/18

Sampler(s): L. READ

LOCATION DATA		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: BP4-A01				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		brown silty surface layer light gray silty sand throughout many clams  lg cobble/rip-rap @ bottom of hole.	
10:35	45	Reloc. along transect (rip rap)			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray lite	strong			
clay	black				

✓  
\*  
✓ Jan needs label

LOCATION DATA		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: CL07-A01				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		brown silty surface layer Dark gray/black silty sand throughout. Several clams	
10:44	45	w/in <del>1 ft.</del> of BP4-A01			
		Diff. color, odor, texture			
		Reloc. along transect. (rip rap)			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray dk	strong			
clay	black				

✓  
\*  
✓ Jan needs label

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: 4

Date: 6-13-18

Sampler(s): R. Mathonet

LOCATION DATA		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: <del>BPS-104</del>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>11:06</u>	<u>15</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

LOCATION DATA		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: <u>CL07-01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>9:20</u>	<u>45</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.:

Date:

6-13-18

Sampler(s):

R. Mathonnet

BANK SAMPLE

LOCATION DATA		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: BNK 3-2		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
9:45		filamentous algae			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none H <sub>2</sub> S			
gravel	drab olive	slight petroleum			
sand (F M C)	brown	moderate other:			
silt	gray	strong			
clay	black				

LOCATION DATA		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: CL07 C02		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
9:37	45	silt brown surface black silty clay, red throughout			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none H <sub>2</sub> S			
gravel	drab olive	slight petroleum			
sand (F M C)	brown	moderate other:			
silt	gray	strong			
clay	black	dark gray sand			

\*flag was moved from footing on bank rip rap


# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM


Project Name: LDW AOC3

Task No.: 4

Date: 0/13/18

Sampler(s): N. Maas

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL07-B02</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		 <p>scattered shell fragments patches of orange uniform throughout brown/gray</p>	
0918	30 cm	moved to avoid rocky substrate			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL07-B03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		 <p>Brown surface gray sand layer ~10 cm brown/gray uniform • small gravel on surface</p>	
0938	45 cm	moved to avoid rocks/pilings/blocks			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6-13-18 Sampler(s): R Mathonnet

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP4-C01</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>9:58</u>	<u>45</u>	<p>-brown surf black silty clay gray sand</p>			
SAMPLE DATA					
Sediment type	Sediment color				
cobble <u>gravel</u> <u>sand (F M)</u> <u>silt</u> <u>clay</u>	<u>brown surface</u> drab olive brown <u>gray</u> <u>black</u>	<u>none</u> H <sub>2</sub> S slight petroleum moderate other: strong			

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP4-B04</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>10:17</u>	<u>45</u>	<p>-brown surface dark gray silty clay gray sand</p>			
SAMPLE DATA					
Sediment type	Sediment color				
cobble <u>gravel</u> <u>sand (F M)</u> <u>silt</u> <u>clay</u>	<u>brown surface</u> drab olive brown <u>gray dark</u> black	<u>none</u> H <sub>2</sub> S slight petroleum moderate other: strong		moved location due to riprap	

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/13/18

Sampler(s): R.M., NM

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		<b>Sampling Method (circle):</b> shovel core other	
Location ID: BP4-B03				<b>Additional Notes</b>	
Sample Time	Penetration depth (cm)	Comments			
1100	45cm	slight brown surface * Top-10cm silt			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S	uniform gray/ brown sand	
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		<b>Sampling Method (circle):</b> shovel core other	
Location ID: BP4-E05				<b>Additional Notes</b>	
Sample Time	Penetration depth (cm)	Comments			
1242	45cm	moved to avoid water			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S	slight brown surface ~5-10 cm gray sand  red/orange sand uniform throughout	
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6-13-18 Sampler(s): L. Read

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL08-B05</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 100%; height: 100%;"></div>	uniformly dk. gray sand w/red flecks
<u>1215</u>	<u>45 cm</u>	<u>Sand very soft filled quickly w/ water</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP4-E07</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 100%; height: 100%;"></div>	uniform med. sand subsurface littered w/ glass & ceramic bits.
<u>1235</u>	<u>32</u>	<u>on 3 tries, hit solid resistance @ ~ 32 cm.</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
silt	<u>gray</u>	strong			
<u>clay</u>	black				

few chunks of gray clay



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: task 4

Date: 6/13/18

Sampler(s): L. Read

jar needs label

LOCATION DATA		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: BP4-B02				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<p>0 greenish brown algae mat 2 cm 10 cm clay w/ orange stain dk gray/black clay-sand mix - wood chunks - pockets of dark gray/black sand. - brick fragments</p>	
1104	45cm	- trace wood debris/chunks			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

clay chunks

✓

LOCATION DATA		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: CL08-B04				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<p>0 Brown + gray sandy mix 8cm dk gray uniform med. sand throughout 42cm</p>	
1155	42cm	Reloc. sample.			
Target location		covered w/ Rip-Rap Lots of debris on beach (tires, metal, glass)			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F-M C)	brown	moderate	other:		
silt	gray below 8cm	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM


Project Name: LDW AOC3 Task No.: Task 4  
 Date: 6-13-18 Sampler(s): L. Read


<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP 4-EΦ6</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1250</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor		<p>Reloc. fr. target due to lg. surface cobble &amp; bricks.</p> <p>hole filled in quickly w/ red-brown colored water</p>	
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP 4-EΦ6</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>D</u>					
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor		<p><del>Reloc. fr. target due to lg. surface cobble &amp; bricks.</del></p> <del>hole filled in quickly w/ red-brown colored water</del>	
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/13/18 Sampler(s): RM, NM

LOCATION DATA		Area Type (circle): Clam <input checked="" type="radio"/> Beach		Sampling Method (circle): shovel <input checked="" type="radio"/> core other	
Location ID: <u>BP4-E04</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments		 brown surface moved location due to rip rap blue gray sand with scattered orange	
<u>12:49</u>	<u>45</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	<u>gray</u> <u>bluish</u>	strong			
<u>clay</u>	black				

LOCATION DATA		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID:		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 12-13-18 Sampler(s): RM NM

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL08-B03</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 50px; height: 100px; margin-bottom: 5px;"></div> sandy gravel grey sand orange throughout moved due to waterline	
<u>1:02</u>	<u>45</u>				
<u>1300</u>					
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID:		Additional Notes			
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 50px; height: 100px; margin-bottom: 5px;"></div>	
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				


# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM


Project Name: LDW AOC3

Task No.: 4

Date: 6.13.18

Sampler(s): RM, NM

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): <u>shovel</u> core other	
Location ID: CL 08-B01		Additional Notes		
Sample Time	Penetration depth (cm)	Comments		
11:47	45	moved slightly to avoid water		
SAMPLE DATA		 brown surface uniform throughout woody debris shell frags		
Sediment type	Sediment color			Sediment odor
cobble	<u>brown surface</u>			none H <sub>2</sub> S
gravel	drab olive			<u>slight</u> petroleum
sand (F M C)	brown			moderate other:
<u>silt</u>	<u>gray</u> dark	strong		
<u>clay</u>	black			

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>	Sampling Method (circle): <u>shovel</u> core other	
Location ID: BP4-E01		Additional Notes		
Sample Time	Penetration depth (cm)	Comments		
1155	45cm			
SAMPLE DATA		 woody debris uniform gray throughout crushed rock, blue/gray material patches		
Sediment type	Sediment color			Sediment odor
cobble	<u>brown surface</u>			<u>none</u> H <sub>2</sub> S
<u>gravel</u>	drab olive			slight petroleum
<u>sand (F M C)</u>	brown			moderate other:
<u>silt</u>	<u>gray</u>	strong		
<u>clay</u>	black			

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: task 4  
 Date: 6/13/2018 Sampler(s): NM

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BPA-B05</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>1055</u>	<u>45</u>	<p>0.5cm ← layer of filamentous algae at surface                  clay                  uniform gray/brown sand                  5-45 cm</p>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel core other	
Location ID: <u>CL008-B02</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>1137</u>	<u>45cm</u>	<p>layer of filamentous algae at surface                  uniform dark gray fine sand + silt</p>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM


Project Name: LDW AOC3


Task No.: 4

Date: 12-13-18

06.

Sampler(s): RM NM

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>snov</u> core other	
Location ID: <u>BP4-D01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			coarse sand gray orange woody debris  dark fine silt
12:08	45				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand</u> (F M <u>D</u> )	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>snov</u> core other	
Location ID: <u>CL08-A01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			see above
12:08	45				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 12-13-08 Sampler(s): NM, RM  
 06.

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>	Sampling Method (circle): shovel core other
Location ID: <u>BP4-E03</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	
<u>1228</u>	<u>45cm</u>		
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	
gravel	drab olive	slight petroleum	
<u>sand (F V C)</u>	brown	moderate other:	
<u>silt</u>	<u>gray</u>	strong	
clay	black		

*Additional Notes:*  
 Brown surface  
 dark gray silt/fine sand  
 Bottom 10-15 cm red sand

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>	Sampling Method (circle): <u>shovel</u> core other
Location ID: <u>BP4-E02</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	
<u>12:33</u>	<u>45</u>		
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	
gravel	drab olive	slight petroleum	
<u>sand (F V C)</u>	brown	moderate other:	
silt	<u>gray</u>	strong	
clay	black		

*Additional Notes:*  
 brown surface  
 dark gray sand orange throughout  
 medium grey



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4

Date: 6/14/10 Sampler(s): AE, JR, AV

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): <u>shovel</u> core other
Location ID: <u>CL01-A03</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	
<u>1310</u>	<u>45</u>	<u>Large woody debris</u>	
<b>SAMPLE DATA</b>			
Sediment type	Sediment color	Sediment odor	
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S
gravel	drab olive	slight	petroleum
sand (F <u>M C</u> )	brown	moderate	other:
silt	<u>gray</u>	strong	
clay	black		

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): <u>shovel</u> core other
Location ID: <u>CL01-R01</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	
<u>1340</u>	<u>45</u>	<u>Large rocks were present</u>	
<b>SAMPLE DATA</b>			
Sediment type	Sediment color	Sediment odor	
<u>cobble</u>	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S
<u>gravel</u>	drab olive	slight	petroleum
<u>sand (F M C)</u>	brown	moderate	other:
silt	<u>gray</u>	strong	
clay	<u>black</u>		

Location was significantly relocated to better represent clam habitat

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: AOC3 4  
 Date: 0.14.18 Sampler(s): JR

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL01-A05</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		UNIFORM	
<u>1308</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL01-A01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		UNIFORM	
<u>1329</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/14/18

Sampler(s): AV

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>LDW18-C101-A04</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1312</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>LDW18-C101-A02</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1341</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black				

woody debris  
in lower part of core

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: 4

Date: 6-14-18

Sampler(s): LR, DW

✓

LOCATION DATA		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: BPI-A05, BPI-A05-FD				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<del>BPI-1325</del>	45	Field dup collected			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

✓

LOCATION DATA		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: BPI-A04, BPI-A04-FD				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1345	45	FD collected hit resistance - moved location toward water			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/14/18

Sampler(s): M.Y. + R.C.

<b>LOCATION DATA</b>		Area Type (circle): Clam <input type="checkbox"/> Beach <input checked="" type="checkbox"/>		Sampling Method (circle): shovel <input checked="" type="checkbox"/> core <input type="checkbox"/> other <input type="checkbox"/>	
Location ID: BPI-ADZ (+FD)				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1310	45	<div style="border: 1px solid black; width: 100%; height: 100%; padding: 5px;">                     gravel on surface                      sand throughout                      shell fragments                 </div>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam <input type="checkbox"/> Beach <input checked="" type="checkbox"/>		Sampling Method (circle): shovel <input type="checkbox"/> core <input checked="" type="checkbox"/> other <input type="checkbox"/>	
Location ID: BPI-B02 (+FD)				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1319	45	<div style="border: 1px solid black; width: 100%; height: 100%; padding: 5px;">                     seaweed + vegetation on surface                 </div>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/14/18

Sampler(s): BC, MY, CW

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BPI-B03 (+FD)</u>				<b>Additional Notes</b>  Uniform mostly, Some pockets of black sediment near surface  very sandy	
Sample Time	Penetration depth (cm)	Comments			
1315	45	duplicate			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	<u>drab olive</u>	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	gray	strong			
clay	<u>black</u>				

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BPI-B01 (+FD)</u>				<b>Additional Notes</b>  vegetated bank	
Sample Time	Penetration depth (cm)	Comments			
1340	45	duplicate			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	<u>drab olive</u>	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: Nov 6, 14-18

Sampler(s): RM NM

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: <u>BP1-A02</u> <del>BP1-A01</del>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>13:22</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: <u> </u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/14/18

Sampler(s): NM, RM

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other							
Location ID: BPI-A06 (+FD)		Additional Notes									
Sample Time	Penetration depth (cm)	Comments									
13:04	45cm	relocated slightly due to water line dup collected									
<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 50px; height: 150px; margin-right: 10px;"></div> <div> <p>} Brown + red coarse sand</p> <p>Gray sand + worms</p> </div> </div>											
						<b>SAMPLE DATA</b>					
						Sediment type	Sediment color	Sediment odor			
						cobble	brown surface	none H <sub>2</sub> S			
						gravel	drab olive	slight petroleum			
sand (F M C)	brown	moderate other:									
silt	gray	strong									
clay	black										

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other							
Location ID: BPI-A03 (+FD)		Additional Notes									
Sample Time	Penetration depth (cm)	Comments									
13:15	45										
<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 50px; height: 150px; margin-right: 10px;"></div> <div> <p>- red orange throughout grey med sand</p> </div> </div>											
						<b>SAMPLE DATA</b>					
						Sediment type	Sediment color	Sediment odor			
						cobble	brown surface	none H <sub>2</sub> S			
						gravel	drab olive	slight petroleum			
sand (F M C)	brown	moderate other:									
silt	gray	strong									
clay	black										



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 12 JUN 2018 Sampler(s): BRIAN, KRISTEN

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other							
Location ID: <u>BP2-A01</u>				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
<u>10:00</u>	<u>45cm</u>	<u>—————</u>									
BROWN SILT AT SURFACE  GRAY CLAY THROUGHOUT  ORGANIC/WOOD DEBRIS AT DEPTH  MINIMAL SMALL COBBLES INTERSPERSED											
						SAMPLE DATA					
						Sediment type	Sediment color	Sediment odor			
						<input checked="" type="radio"/> cobble <input type="radio"/> gravel <input type="radio"/> sand (F M C) <input checked="" type="radio"/> silt <input checked="" type="radio"/> clay	<input checked="" type="radio"/> brown surface <input type="radio"/> drab olive <input type="radio"/> brown <input checked="" type="radio"/> gray <input type="radio"/> black	<input type="radio"/> none <input checked="" type="radio"/> H <sub>2</sub> S <input checked="" type="radio"/> slight <input type="radio"/> petroleum <input type="radio"/> moderate other: <input type="radio"/> strong			

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other							
Location ID: <u>BP2-A02</u>				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
<u>10:14</u>	<u>45cm</u>	<u>OFFSET ~ 3FT DUE TO DEBRIS</u>									
BROWN SILT AT SURFACE  CLAY AT DEPTH. W/ SAND  WOOD DEBRIS, COBBLE, BRICKS, AND POSSIBLE SHELL HASH											
						SAMPLE DATA					
						Sediment type	Sediment color	Sediment odor			
						<input checked="" type="radio"/> cobble <input type="radio"/> gravel <input type="radio"/> sand (F M C) <input checked="" type="radio"/> silt <input checked="" type="radio"/> clay	<input checked="" type="radio"/> brown surface <input type="radio"/> drab olive <input type="radio"/> brown <input checked="" type="radio"/> gray <input checked="" type="radio"/> black	<input type="radio"/> none <input checked="" type="radio"/> H <sub>2</sub> S <input checked="" type="radio"/> slight <input type="radio"/> petroleum <input type="radio"/> moderate other: <input type="radio"/> strong			

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 14 JUN 2018 Sampler(s): BRIAN, KRISTIN

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP2-A08</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>1207</u>	<u>45m</u>	<u>—————</u>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
<u>cobble</u>	<u>brown surface</u>	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	<u>black</u>				

Brown BROWN SILT SURFACE W COBBLE AT SURFACE

~~GRAY~~ BLACK

BE BLACK CLAY WOOD DEBRIS THROUGHOUT

GRAY ↓ GRAY CLAY @ DEPTH

LOCATION DATA		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID:		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: 4

Date: 14 JUN 2013

Sampler(s): BRIAN, KRISTEN

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other																																													
Location ID: <u>BP2-A03</u>				Additional Notes																																													
Sample Time	Penetration depth (cm)	Comments																																															
<u>1038</u>	<u>45cm</u>	<u>OFFSET 4FT</u> <u>B/C OF DEBRIS</u>																																															
<table border="1"> <tr> <td colspan="6">SAMPLE DATA</td> </tr> <tr> <td>Sediment type</td> <td>Sediment color</td> <td colspan="4">Sediment odor</td> </tr> <tr> <td>cobble</td> <td><u>brown surface</u></td> <td><u>none</u></td> <td colspan="3">H<sub>2</sub>S</td> </tr> <tr> <td>gravel</td> <td>drab olive</td> <td>slight</td> <td colspan="3">petroleum</td> </tr> <tr> <td><u>sand (F M C)</u></td> <td>brown</td> <td>moderate</td> <td colspan="3">other:</td> </tr> <tr> <td><u>silt</u></td> <td><u>gray</u></td> <td>strong</td> <td colspan="3"></td> </tr> <tr> <td>clay</td> <td>black</td> <td colspan="4"></td> </tr> </table>						SAMPLE DATA						Sediment type	Sediment color	Sediment odor				cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S			gravel	drab olive	slight	petroleum			<u>sand (F M C)</u>	brown	moderate	other:			<u>silt</u>	<u>gray</u>	strong				clay	black					<p><u>BROWN SILT SURFACE</u></p> <p><u>SHELL HASH THROUGHOUT</u></p> <p><u>WOOD DEBRIS THROUGHOUT</u></p>	
						SAMPLE DATA																																											
Sediment type	Sediment color	Sediment odor																																															
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clay	black																																																

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other																																													
Location ID: <u>BP2-A04</u>				Additional Notes																																													
Sample Time	Penetration depth (cm)	Comments																																															
<u>1054</u>	<u>45cm</u>	<u>OFFSET 2FT</u> <u>DUE TO WOOD DEBRIS</u>																																															
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						SAMPLE DATA																																											
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<u>silt</u>	<u>gray</u>	strong																																															
<u>clay</u>	black																																																

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: 4

Date: 14 JUN 2018

Sampler(s): BRIAN, KRISTON

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other																																													
Location ID: <u>BP2-A05</u>		Additional Notes																																															
Sample Time	Penetration depth (cm)	Comments																																															
<u>1114</u>	<u>45cm</u>	<u>—————</u>																																															
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						<b>SAMPLE DATA</b>																																											
Sediment type	Sediment color	Sediment odor																																															
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<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other																																													
Location ID: <u>BP2-A07</u>		Additional Notes																																															
Sample Time	Penetration depth (cm)	Comments																																															
<u>1151</u>	<u>45cm</u>	<u>—————</u>																																															
<table border="1"> <tr> <td colspan="6"><b>SAMPLE DATA</b></td> </tr> <tr> <td>Sediment type</td> <td>Sediment color</td> <td colspan="2">Sediment odor</td> <td colspan="2"></td> </tr> <tr> <td>cobble</td> <td><u>brown surface</u></td> <td><u>none</u></td> <td>H<sub>2</sub>S</td> <td colspan="2"></td> </tr> <tr> <td>gravel</td> <td>drab olive</td> <td>slight</td> <td>petroleum</td> <td colspan="2"></td> </tr> <tr> <td>sand (F M C)</td> <td>brown</td> <td>moderate</td> <td>other:</td> <td colspan="2"></td> </tr> <tr> <td>silt</td> <td><u>gray</u></td> <td>strong</td> <td></td> <td colspan="2"></td> </tr> <tr> <td><u>clay</u></td> <td><u>black</u></td> <td></td> <td></td> <td colspan="2"></td> </tr> </table>						<b>SAMPLE DATA</b>						Sediment type	Sediment color	Sediment odor				cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S			gravel	drab olive	slight	petroleum			sand (F M C)	brown	moderate	other:			silt	<u>gray</u>	strong				<u>clay</u>	<u>black</u>					<p>ALGAE BLACK BROWN GRAY</p> <p>ALGAE COVER W/ THIN BLACK LAYER</p> <p>LIGHT BROWN SURFACE MIXED IN</p> <p>LIGHT GRAY</p> <p>DRY CLAY AT DEPTH</p>	
						<b>SAMPLE DATA</b>																																											
Sediment type	Sediment color	Sediment odor																																															
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silt	<u>gray</u>	strong																																															
<u>clay</u>	<u>black</u>																																																

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/14/18 Sampler(s): M.Y. + R.C.

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL02-B01</u>				<b>Additional Notes</b> seaweed on surface (Ulva sp.) • uniform clay till 40cm deep woody debris at 40cm	
Sample Time	Penetration depth (cm)	Comments			
<u>1106</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
<u>clay</u>	<u>black</u>				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>B002-A06</u>				<b>Additional Notes</b> 10cm } silt/fine sand • bricks throughout • seaweed on surface } clay	
Sample Time	Penetration depth (cm)	Comments			
<u>1119</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/19/18

Sampler(s): M.Y. + R.C.

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL02-D01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1151</u>	<u>45</u>	<div style="border: 1px solid black; width: 100px; height: 100px; display: inline-block;"></div> <ul style="list-style-type: none"> <li>• seaweed (Ulva sp.) on surface</li> <li>• shell fragments</li> </ul>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
<u>cobble</u>	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other: /		
<u>silt</u>	<u>dark gray</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> <u>Beach</u>		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>BPZ-A09</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1210</u>	<u>40</u>	<div style="border: 1px solid black; width: 100px; height: 100px; display: inline-block;"></div> <ul style="list-style-type: none"> <li>5cm } black soil</li> <li>cobble at top</li> <li>• gravel throughout</li> <li>• hard layer of sand/gravel mix @ 40cm</li> <li>could not penetrate</li> </ul>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
<u>cobble</u>	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other: /		
<u>silt</u>	<u>gray</u>	strong			
clay	<u>black</u>				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: AOC3 ↑  
 Date: 6-14-16 Sampler(s): JR

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL02 - L02</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1004</u>	<u>45</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL02 - M04</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1035</u>	<u>45</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	<u>strong</u>			
<u>clay</u>	black				

COBBLE PRESENT @ surface  
 WOODY / FIBEROUS TEXTURE  
 LOCATION MOVED, LOL @ CLIFF w/ WOODY DEBRIS @ Depth

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: AOC3 4

Date: 6.14.18

Sampler(s): JC

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL07-J01</u>				Additional Notes  WHITECHUNKS @ 12 in depth	
Sample Time	Penetration depth (cm)	Comments			
1159	45				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u> WHITE	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID:				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/14/18

Sampler(s): JR

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>C102-8503</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; padding: 5px;">                 SAMPLE MOVED                  from 09 loc.                  (due to rip rap)             </div>	
1215	45	N			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID:				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; padding: 5px;">                 (This section is crossed out)             </div>	
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: AOC3 4

Date: 6/14/18

Sampler(s): AV

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <del>LDWA-CL02-403</del>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1003	45				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u> H <sub>2</sub> S			
gravel	drab olive	slight petroleum			
sand (F M C)	<u>brown</u>	moderate other:			
<u>silt</u>	gray	strong			
clay	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <del>LDWA-CL02-402</del>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1019	45				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
<u>cobble</u>	brown surface	none <u>H<sub>2</sub>S</u>			
<u>gravel</u>	drab olive	slight petroleum			
sand (F M C)	<u>brown</u>	moderate other:			
silt	gray	strong			
<u>clay</u>	<u>black</u>				

Cobble/gravel  
Sand  
Clay

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 01/14/18 Sampler(s): AV

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>LDWAOC3-CL02-M05</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1036</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand <u>(F M C)</u>	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u> <u>rust</u>	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>LDWAOC3-CL02-E03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1131</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand <u>(F M C)</u>	<u>brown</u> <u>rust</u>	moderate	other:		
<u>silt</u>	gray	strong			
clay	black				

grey brown  
rust  
brown  
rust  
brown

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW/AOC3 Task No.: 4  
 Date: 01/14/18 Sampler(s): AU + AE

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): shovel <u>core</u> other
Location ID: <u>LDW18-CLO2-J02</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	
<u>1201</u>	<u>45</u>		
<b>SAMPLE DATA</b>			
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none	<u>H<sub>2</sub>S</u>
<u>gravel</u>	drab olive	slight	petroleum
sand (F M C)	<u>brown</u>	moderate	other:
<u>silt</u>	gray <u>rust</u>	strong	
<u>clay</u>	<u>black</u>		

↑

↓

↑

↓

rust

black

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID:		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	
<b>SAMPLE DATA</b>			
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none	H <sub>2</sub> S
gravel	drab olive	slight	petroleum
sand (F M C)	brown	moderate	other:
silt	gray	strong	
clay	black		

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: 4

Date: 6/14/18

Sampler(s): Aaron E, JR, AV

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL02-L01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1000</u>	<u>45</u>	<u>Plant fibers through</u> <u>entire sample</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	<u>drab olive</u>	slight	petroleum		
sand (F M C)	<u>brown</u>	moderate	other:		
<u>silt</u>	gray	strong			
<u>clay</u>	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL02-M01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1015</u>	<u>45</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	<u>black</u>				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/14/18 Sampler(s): AE, JR, AV

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CLO2-M03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1025</u>	<u>45</u>	<u>Clay at bottom sand + gravel mid to surface</u>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
<u>gravel</u>	<u>drab olive</u>	slight	petroleum		
sand (F M <u>C</u> )	brown	moderate	other:		
silt	<u>gray</u>	strong			
<u>clay</u>	black				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CLO2-K01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1040</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
<u>gravel</u>	<u>drab olive</u>	slight	petroleum		
sand (F M <u>C</u> )	<u>brown</u>	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/14/18

Sampler(s): AE, JR, AV

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): <u>shovel</u> core other
Location ID: <u>CL02-G02</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	
<u>1120</u>	<u>45</u>	<u>A lot of woody debris</u>	
<b>SAMPLE DATA</b>			
Sediment type	Sediment color	Sediment odor	
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>
gravel	drab olive	<u>slight</u>	petroleum
sand (F M C)	brown	moderate	other:
<u>silt</u>	gray	strong	
<u>clay</u>	<u>black</u>		

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): <u>shovel</u> core other
Location ID: <u>CL02-E02</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	
<u>1135</u>	<u>45</u>		
<b>SAMPLE DATA</b>			
Sediment type	Sediment color	Sediment odor	
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>
gravel	drab olive	<u>slight</u>	petroleum
sand (F M C)	brown	<u>moderate</u>	other:
<u>silt</u>	<u>gray</u>	strong	
<u>clay</u>	<u>black</u>		

Sampled w/in safety booms. ~~2~~ Shell fragments throughout core


# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM


Project Name: LDWAOC3

Task No.: 4

Date: 6-14-18

Sampler(s): RM NM

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): <u>shovel</u> core other
Location ID: <u>CL02-CP1</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	
12:12	45	 brown <sup>5-10</sup> /red shell frags gravel and silt  light gray fine sand/silt  10 cm light gray white chalky  shell frag throughout	
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	
<u>gravel</u>	drab olive	slight petroleum	
<u>sand (F M C)</u>	brown	moderate other:	
<u>silt</u>	<u>gray</u>	strong	
clay	black		

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): shovel core other
Location ID: <u>CL02-A01</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	
1245	45cm	 Brown surface relocated + filamentous algae rip rap  uniform coarse sand + gravel	
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	
<u>gravel</u>	drab olive	slight petroleum	
<u>sand (F M C)</u>	brown	moderate other:	
silt	<u>gray</u>	strong	
clay	black		



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.:   
 Date: 6/14/18 Sampler(s): RM, NM

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL02-F01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1030	45cm	<p>~ 10 cm organic woody debris brown/gray silt</p>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL02-F05</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1055	45cm	<p>-10-15cm sand - patchy woody debris + orange organics + sand</p>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/14/18

Sampler(s): RM, NM

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL02-H06</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>0954</u>	<u>45cm</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

Top 10 cm sand  
10-15 cm fine silt  
sand

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL02-H02</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1010</u>	<u>45cm</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

Brown surface  
pale gray  
red/orange  
fine silt

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/14/18

Sampler(s): RM, NM

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>C102-D04</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1125</u>	<u>45cm</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor		Brown surface + scattered filamentous algae  uniform gray fine sand + silt	
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F/M/C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>C102-C02</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1202</u>	<u>45cm</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor		Brown surface + filamentous algae  • scattered woody debris  uniform gray silt/sand  some medium sand near base of hole	
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F/M/C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6-14-18

Sampler(s): RM NM

✓

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CLØ2-CLØ3</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>11:38</u>	<u>45</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray dark</u>	strong			
clay	black				

✓

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CLØ2-CLØ4</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>11:49</u>	<u>45</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray dark</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM


Project Name: LDWAOC3

Task No.: 4


Date: 6/14/2018

Sampler(s): RM, RM

✓

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL02-F04</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>10:47</u>	<u>45</u>	 <ul style="list-style-type: none"> <li><u>brown surface</u></li> <li>woody debris throughout but not abundant</li> <li>layer of filamentous algae</li> <li>moved location due to water line</li> </ul>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand</u> (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u> <u>dark</u>	strong			
clay	black				

✓

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL02-D06</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>11:13</u>	<u>45</u>	 <ul style="list-style-type: none"> <li><u>brown surface</u></li> <li>consistent dark grey silt below</li> <li>occasional woody debris</li> <li>moved location due to water line</li> </ul>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>		
gravel	drab olive	<u>slight</u>	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6-14-18

Sampler(s): RM NM

LOCATION DATA		Area Type (circle): <input checked="" type="radio"/> Gram Beach		Sampling Method (circle): <input checked="" type="radio"/> shovel core other	
Location ID: CL02-IP2				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			organic material    fine silt
10:17	45				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<input checked="" type="radio"/> none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	<input checked="" type="radio"/> brown	moderate	other:		
<input checked="" type="radio"/> silt	gray	strong			
clay	black				

LOCATION DATA		Area Type (circle): <input checked="" type="radio"/> Gram Beach		Sampling Method (circle): <input checked="" type="radio"/> shovel core other	
Location ID: CL02-F02				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			<ul style="list-style-type: none"> <li>• woody debris throughout</li> <li>• consistent throughout</li> </ul>
10:35	45				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<input checked="" type="radio"/> none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	<input checked="" type="radio"/> brown	moderate	other:		
<input checked="" type="radio"/> silt	<input checked="" type="radio"/> gray	strong			
clay	black				


# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM


Project Name: LDWAOC3

Task No.: 4

Date: 6-14-18

Sampler(s): RM NM

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): <u>shovel</u> core other
Location ID: <u>CL02-H07</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	
<u>9:48</u>	<u>45</u>	 <p>10-15 cm sand</p> <p>fine silt/clay</p>	
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	<u>none</u>	H <sub>2</sub> S
gravel	drab olive	slight	petroleum
<u>sand</u> (F M C)	brown	moderate	other:
<u>silt</u>	<u>gray</u>	strong	
clay	black		

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): <u>shovel</u> core other
Location ID: <u>CL02-H04</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	
<u>10:01</u>	<u>45</u>	 <p>medium ~10cm sand</p> <p>fine silt clay - light gray</p>	
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	<u>none</u>	H <sub>2</sub> S
gravel	drab olive	slight	petroleum
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:
<u>silt</u>	<u>gray</u>	strong	
clay	black		

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWA AOC3

Task No.: 4

Date: 6/14/18

Sampler(s): M.Y. + R.C.

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL02-B07</u>				<b>Additional Notes</b>	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 50px; height: 150px; display: inline-block; vertical-align: middle;"></div> <ul style="list-style-type: none"> <li>• woody debris</li> <li>• shell fragments</li> <li>• clay to silt throughout</li> </ul> <p>drab olive w/ brown surface</p> <p>10cm <del>drab olive</del> dark gray</p>	
9:51	45				
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>		
gravel	<u>drab olive</u>	slight	petroleum		
sand (F M C)	brown	<u>moderate</u>	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL02-B06</u>				<b>Additional Notes</b>	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 50px; height: 150px; display: inline-block; vertical-align: middle;"></div> <p>woody + organic debris</p>	
10:00	45				
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	<u>drab olive</u>	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
<u>clay</u>	black				



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No. ↑

Date: 6-14-18

Sampler(s): LR, DW

✓

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL02-D03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		brown thin silty algal layer (2 cm) black + gray clay w/ red/rust colored clay pockets (mottled) 15 cm } uniform gray sand 45	
1145	45				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
silt	<u>gray</u>	strong			
<u>clay</u>	<u>black</u> } mottled				
	<u>red</u>				

✓

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL02-D02</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		} surface 2cm gray silty clay - shell frag. } dark gray clay after 23cm too consolidated material, can't create sampleable hole after multiple attempts	
1210	23cm				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt - surface</u>	<u>gray</u>	strong			
<u>clay</u>	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: Task 4

Date: 6-14-18

Sampler(s): LR, DW

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL02-D07</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1105	45				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u> surface	<u>gray</u>	strong			
<u>clay</u>	<u>black</u>				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL02-D05</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1130	40				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u> surface	<u>gray</u>	strong			
<u>clay</u>	<u>black</u>				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: A

Date: 6-14-18

Sampler(s): LR, DW

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): <u>shovel</u> core other
Location ID: <u>CL02-F03</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	
<u>1025</u>	<u>45</u>		
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>
gravel	<u>drab olive</u>	slight	petroleum
sand (F M C)	brown	moderate	other:
silt	gray	strong	
<u>clay</u>	black		

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): <u>shovel</u> core other
Location ID: <u>CL02-F03</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	
<u>1040</u>	<u>45</u>		
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	<u>none</u>	H <sub>2</sub> S
gravel	drab olive	slight	petroleum
sand (F M C)	<u>brown</u>	moderate	other:
silt	<u>gray</u>	strong	
<u>clay</u>	<u>black</u>		

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6-14-18 Sampler(s): LR, DW

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL02-H05</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>0955</u>	<u>45</u>	uniform, greenish gray clay throughout Mya clam, small bits of wood toward top ~ 10cm depth			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	<u>drab olive</u>	<u>slight</u>	petroleum		
sand (F M C)	brown	moderate	other:		
silt	<u>gray</u>	strong			
<u>clay</u>	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL02-H03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1015</u>	<u>45</u>	0-15cm gray clay w/wood fibers 15-45cm clay mixed w/ brown soil low moisture after first few cm H <sub>2</sub> S - at depth			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	<u>H<sub>2</sub>S</u> - at depth		
gravel	drab olive	<u>slight</u>	petroleum		
sand (F M C)	<u>brown</u>	moderate	other:		
silt	<u>gray</u>	strong			
<u>clay</u>	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 8/14/18 Sampler(s): JR

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL02-G01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1118</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>		
gravel	drab olive	<u>slight</u>	petroleum		
sand (E M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL02-E01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1137</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
sand (E M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	<u>black</u> <u>WHITE</u>				

HARD WHITE LAYER @ 8 inches

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/14/18 Sampler(s): FM, NM

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CLO2-C05</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1225</u>	<u>45cm</u>	Brown surface + filamentous algae  scattered shell fragments			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CLO2-C06 C07</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1238</u>	<u>45</u>	relocated to the sample area (top mucky) } filamentous algae at top uniform throughout scattered weed debris + shell fragments			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>		
<u>gravel - small</u>	drab olive	<u>slight</u>	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/14/18

Sampler(s): M.Y. + R.C.

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL02-B08</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
10:12	45	<div style="border: 1px solid black; width: 100px; height: 100px; display: inline-block;"></div> <ul style="list-style-type: none"> <li>• organic / woody debris</li> <li>• scavenged on top of location</li> </ul>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	<u>moderate</u>	other:		
<u>silt</u>	gray	strong			
<u>clay</u>	<u>black</u>				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL02-B04</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
10:25	45	<div style="border: 1px solid black; width: 100px; height: 100px; display: inline-block;"></div> <ul style="list-style-type: none"> <li>• bricks (crushed)</li> <li>• fragmented organic debris</li> <li>• many shell fragments</li> <li>• mostly gray w/ reddish/orange soil in patches throughout</li> <li>• some gravel in top 25cm</li> </ul>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: <sup>4</sup>

Date: 6/14/18

Sampler(s): M.Y. + R.C.

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach	<b>Sampling Method (circle):</b> <u>shovel</u> core other
Location ID: <u>CL02-B02</u>		<b>Additional Notes</b>	
Sample Time	Penetration depth (cm)	Comments	
1037	45	<div style="border: 1px solid black; width: 100px; height: 100px; display: inline-block;"></div> • waxy debris	
<b>SAMPLE DATA</b>			
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>	
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>
gravel	drab olive	<u>slight</u>	petroleum
sand (F M C)	brown	moderate	other:
<u>silt</u>	<u>gray</u>	strong	
<u>clay</u>	black		

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach	<b>Sampling Method (circle):</b> <u>shovel</u> core other
Location ID: <u>CL02-B02</u>		<b>Additional Notes</b>	
Sample Time	Penetration depth (cm)	Comments	
1052	45	<div style="border: 1px solid black; width: 100px; height: 100px; display: inline-block;"></div> • brick crushed throughout • shell fragments • seaweed on top	
<b>SAMPLE DATA</b>			
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>	
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S
gravel	drab olive	slight	petroleum
<u>sand (F M C)</u>	brown	moderate	other:
<u>silt</u>	<u>gray</u>	strong	
<u>clay</u>	black		



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4

Date: 6/15/18 Sampler(s): PL, KM, CW

*partly cloudy*

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other																											
Location ID: <u>CL10-All</u>				Additional Notes																											
Sample Time	Penetration depth (cm)	Comments																													
<u>1040</u>	<u>45</u>	—																													
SAMPLE DATA <table border="1"> <tr> <td>Sediment type</td> <td>Sediment color</td> <td colspan="2">Sediment odor</td> </tr> <tr> <td>cobble</td> <td><u>brown surface</u></td> <td><u>none</u></td> <td>H<sub>2</sub>S</td> </tr> <tr> <td>gravel</td> <td><u>drab olive</u></td> <td>slight</td> <td>petroleum</td> </tr> <tr> <td>sand (F M C)</td> <td><u>brown</u></td> <td>moderate</td> <td>other:</td> </tr> <tr> <td><u>silt</u></td> <td>gray</td> <td>strong</td> <td></td> </tr> <tr> <td>clay</td> <td>black</td> <td></td> <td></td> </tr> </table>						Sediment type	Sediment color	Sediment odor		cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	gravel	<u>drab olive</u>	slight	petroleum	sand (F M C)	<u>brown</u>	moderate	other:	<u>silt</u>	gray	strong		clay	black			uniform throughout vegetation at surface	
						Sediment type	Sediment color	Sediment odor																							
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S																												
gravel	<u>drab olive</u>	slight	petroleum																												
sand (F M C)	<u>brown</u>	moderate	other:																												
<u>silt</u>	gray	strong																													
clay	black																														

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other																											
Location ID: <u>CL10-AD4</u>				Additional Notes																											
Sample Time	Penetration depth (cm)	Comments																													
<u>1232</u>	<u>45</u>	—																													
<u>1231</u>																															
SAMPLE DATA <table border="1"> <tr> <td>Sediment type</td> <td>Sediment color</td> <td colspan="2">Sediment odor</td> </tr> <tr> <td>cobble</td> <td><u>brown surface</u></td> <td><u>none</u></td> <td>H<sub>2</sub>S</td> </tr> <tr> <td>gravel</td> <td>drab olive</td> <td>slight</td> <td>petroleum</td> </tr> <tr> <td><u>sand (F M C)</u></td> <td>brown</td> <td>moderate</td> <td>other:</td> </tr> <tr> <td><u>silt</u></td> <td><u>gray</u></td> <td>strong</td> <td></td> </tr> <tr> <td>clay</td> <td>black</td> <td></td> <td></td> </tr> </table>						Sediment type	Sediment color	Sediment odor		cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	gravel	drab olive	slight	petroleum	<u>sand (F M C)</u>	brown	moderate	other:	<u>silt</u>	<u>gray</u>	strong		clay	black			relocated due to safety uniform silt throughout (mud too deep)	
						Sediment type	Sediment color	Sediment odor																							
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S																												
gravel	drab olive	slight	petroleum																												
<u>sand (F M C)</u>	brown	moderate	other:																												
<u>silt</u>	<u>gray</u>	strong																													
clay	black																														

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: 4

Date: 6/15/18

Sampler(s): B.C. + R.C. + K.M.

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other																											
Location ID: <u>CL16-A03</u>				Additional Notes																											
Sample Time	Penetration depth (cm)	Comments																													
1250	45	-																													
SAMPLE DATA <table border="1"> <tr> <td>Sediment type</td> <td>Sediment color</td> <td colspan="2">Sediment odor</td> </tr> <tr> <td>cobble</td> <td><u>brown surface</u></td> <td><u>none</u></td> <td>H<sub>2</sub>S</td> </tr> <tr> <td>gravel</td> <td>drab olive</td> <td>slight</td> <td>petroleum</td> </tr> <tr> <td><u>sand (F M C)</u></td> <td>brown</td> <td>moderate</td> <td>other:</td> </tr> <tr> <td><u>silt</u></td> <td><u>gray</u></td> <td>strong</td> <td></td> </tr> <tr> <td>clay</td> <td>black</td> <td></td> <td></td> </tr> </table>						Sediment type	Sediment color	Sediment odor		cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	gravel	drab olive	slight	petroleum	<u>sand (F M C)</u>	brown	moderate	other:	<u>silt</u>	<u>gray</u>	strong		clay	black			• relocated due to depth of mud • uniform silt throughout	
						Sediment type	Sediment color	Sediment odor																							
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S																												
gravel	drab olive	slight	petroleum																												
<u>sand (F M C)</u>	brown	moderate	other:																												
<u>silt</u>	<u>gray</u>	strong																													
clay	black																														

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other																											
Location ID: <u>CL16-A02</u>				Additional Notes																											
Sample Time	Penetration depth (cm)	Comments																													
1310	45	-																													
SAMPLE DATA <table border="1"> <tr> <td>Sediment type</td> <td>Sediment color</td> <td colspan="2">Sediment odor</td> </tr> <tr> <td>cobble</td> <td><u>brown surface</u></td> <td><u>none</u></td> <td>H<sub>2</sub>S</td> </tr> <tr> <td>gravel</td> <td>drab olive</td> <td>slight</td> <td>petroleum</td> </tr> <tr> <td><u>sand (F M C)</u></td> <td>brown</td> <td>moderate</td> <td>other:</td> </tr> <tr> <td><u>silt</u></td> <td><u>gray</u></td> <td>strong</td> <td></td> </tr> <tr> <td>clay</td> <td>black</td> <td></td> <td></td> </tr> </table>						Sediment type	Sediment color	Sediment odor		cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	gravel	drab olive	slight	petroleum	<u>sand (F M C)</u>	brown	moderate	other:	<u>silt</u>	<u>gray</u>	strong		clay	black			• relocated due to deep mud • uniform silt throughout	
						Sediment type	Sediment color	Sediment odor																							
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S																												
gravel	drab olive	slight	petroleum																												
<u>sand (F M C)</u>	brown	moderate	other:																												
<u>silt</u>	<u>gray</u>	strong																													
clay	black																														

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/15/18 Sampler(s): Brian G. + Rachel C.

✓

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CH6-A10</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center;">                 uniform silt throughout             </div>	
<u>1052</u>	<u>45</u>	—			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	<u>H<sub>2</sub>S</u>		
gravel	<u>drab olive</u>	<u>slight</u>	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	gray	strong			
clay	black				

✓

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CH6-A09</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center;">                 uniform silt throughout             </div>	
<u>1106</u>	<u>45</u>	—			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: 4

Date: 6/15/18

Sampler(s): BC. + R.C.

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL16-A08</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 100%; height: 100%;"></div> <p>uniform silt throughout</p>	
<u>1120</u>	<u>45</u>	—			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL16-A07</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 100%; height: 100%;"></div> <p>relocated due to riprap vegetation on surface uniform silt w/ some fine sand throughout, gravel in top 10cm</p>	
<u>1130</u>	<u>45</u>	—			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6/15/18 Sampler(s): B.C. + R.C.

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other																									
Location ID: <u>CL16-A06</u>				Additional Notes																									
Sample Time	Penetration depth (cm)	Comments																											
1145	45	-																											
SAMPLE DATA <table border="1"> <tr> <td>Sediment type</td> <td>Sediment color</td> <td colspan="2">Sediment odor</td> </tr> <tr> <td>cobble</td> <td><u>brown surface</u></td> <td><u>none</u></td> <td>H<sub>2</sub>S</td> </tr> <tr> <td>gravel</td> <td>drab olive</td> <td>slight</td> <td>petroleum</td> </tr> <tr> <td><u>sand (F M C)</u></td> <td>brown</td> <td>moderate</td> <td>other:</td> </tr> <tr> <td><u>silt</u></td> <td><u>gray</u></td> <td>strong</td> <td></td> </tr> <tr> <td>clay</td> <td>black</td> <td></td> <td></td> </tr> </table>						Sediment type	Sediment color	Sediment odor		cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	gravel	drab olive	slight	petroleum	<u>sand (F M C)</u>	brown	moderate	other:	<u>silt</u>	<u>gray</u>	strong		clay	black		
						Sediment type	Sediment color	Sediment odor																					
						cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S																				
						gravel	drab olive	slight	petroleum																				
<u>sand (F M C)</u>	brown	moderate	other:																										
<u>silt</u>	<u>gray</u>	strong																											
clay	black																												
Additional Notes: • relocated due to safe accessibility (mud too deep)																													

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other																									
Location ID: <u>CL16-A05</u>				Additional Notes																									
Sample Time	Penetration depth (cm)	Comments																											
1208	45	-																											
SAMPLE DATA <table border="1"> <tr> <td>Sediment type</td> <td>Sediment color</td> <td colspan="2">Sediment odor</td> </tr> <tr> <td>cobble</td> <td><u>brown surface</u></td> <td><u>none</u></td> <td>H<sub>2</sub>S</td> </tr> <tr> <td>gravel</td> <td>drab olive</td> <td>slight</td> <td>petroleum</td> </tr> <tr> <td><u>sand (F M C)</u></td> <td>brown</td> <td>moderate</td> <td>other:</td> </tr> <tr> <td><u>silt</u></td> <td><u>gray</u></td> <td>strong</td> <td></td> </tr> <tr> <td>clay</td> <td>black</td> <td></td> <td></td> </tr> </table>						Sediment type	Sediment color	Sediment odor		cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	gravel	drab olive	slight	petroleum	<u>sand (F M C)</u>	brown	moderate	other:	<u>silt</u>	<u>gray</u>	strong		clay	black		
						Sediment type	Sediment color	Sediment odor																					
						cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S																				
						gravel	drab olive	slight	petroleum																				
<u>sand (F M C)</u>	brown	moderate	other:																										
<u>silt</u>	<u>gray</u>	strong																											
clay	black																												
Additional Notes: • relocated due to safety • uniform silt throughout → mud too deep																													

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: 4

Date: 6/15/18

Sampler(s): KM, BC, PC

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL16-A01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1326</u>	<u>45</u>	<div style="border: 1px solid black; width: 100px; height: 100px; display: inline-block;"></div> • uniform silt throughout			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL16-A12</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1351</u>	<u>45</u>	<div style="border: 1px solid black; width: 100px; height: 100px; display: inline-block;"></div> • relocated due to debris • woody debris + silt throughout			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: 4

Date: 6/15/18

Sampler(s): SPC

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL15-B11</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1345</u>	<u>45</u>	—			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	<u>drab olive</u>	slight	petroleum		
sand (F M C)	<u>brown</u> <u>+red</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black				

Sampler: LR

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP8-A08</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1400</u>	<u>45 cm</u>	—			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	<u>drab olive</u>	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black				

Label needs label

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6-15-18

Sampler(s): L.R.

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP8-BØ1</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; padding: 5px;"> <p>1cm olive brown silty layer</p> <p>dk. charcoal - black silty clay -</p> <p>Rocks, bits of wood</p> <hr/> <p>30cm</p> <p>consolidated gray clay</p> </div>	
<u>1430</u>	<u>45</u>	<u>Same hole as CL15-CØ1</u>			
<u>Reloc. Same reach as CL15-CØ1</u>					
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL15-CØ1</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; padding: 5px;"> <p>See BPE. BØ1. Notes</p> </div>	
<u>1430</u>	<u>45</u>	<u>Same hole as BP8-BØ1</u>			
<u>Reloc due to lg. rock &amp; wood</u>					
SAMPLE DATA					
<u>10-15 cm below surface</u>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6-15-18 Sampler(s): LR, SPC

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other						
Location ID: <u>BPB-A14</u>				Additional Notes						
Sample Time	Penetration depth (cm)	Comments								
<u>1200</u>	<u>45</u>	—								
						SAMPLE DATA				
						Sediment type	Sediment color	Sediment odor		
						cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S		
						gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:								
silt	<u>gray</u>	strong								
<u>clay</u>	<u>black</u>									

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other						
Location ID: <del>BPB</del> <u>BPB-A19</u>				Additional Notes						
Sample Time	Penetration depth (cm)	Comments								
<u>1230</u>	<u>45</u>	—								
						SAMPLE DATA				
						Sediment type	Sediment color	Sediment odor		
						cobble	brown surface	<u>none</u> H <sub>2</sub> S		
						gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:								
silt	<u>gray</u>	strong								
<u>clay</u>	<u>black</u>									

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/15/18

Sampler(s): MLR, SPL, L.R

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>Shovel</u> core other	
Location ID: <u>BPS-A13</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
10:40	45	-			
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	<u>gray</u>	strong			
<u>clay</u>	black				

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL15-B13</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
11:00	45	Area has patches areas w/ grass / other areas w/ thick dk gray-black silty clay			
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
silt	<u>gray</u>	strong			
<u>clay</u>	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6-15-18 Sampler(s): NM RM

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): shovel core other	
Location ID: <u>BPB-AD7</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			brown surface gravelly silt + woody debris + brick chunks } scattered  dark gray silt ← in this layer
<u>2:46 (56)</u>	<u>45</u>	-			
<u>1440</u>					
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray dark</u>	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID:				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/14/18 Sampler(s): RM, NM

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP8-C02</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1045</u>	<u>45cm</u>	<u>-</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand</u> (F) (M) (C)	brown	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP8-C03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1125</u>	<u>45cm</u>	<u>-</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand</u> (F) (M) (C)	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/15/18 Sampler(s): RM, NM


LOCATION DATA		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): <u>shovel</u> core other
Location ID: <u>CL15-001</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	Brown surface } uniform gray fine sand + silt
<u>1147</u>	<u>45cm</u>	-	
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	
gravel	drab olive	slight petroleum	
<u>sand (F M C)</u>	brown	moderate other:	
<u>silt</u>	<u>gray</u>	strong	
clay	black		

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): <u>shovel</u> core other
Location ID: <u>CL15-B18</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	Brown surface } fine sand + silt } medium sand
<u>1215</u>	<u>45</u>	-	
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	
gravel	drab olive	slight petroleum	
<u>sand (F M C)</u>	brown	moderate other:	
<u>silt</u>	<u>gray</u>	strong	
clay	black		


# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/15/18 Sampler(s): RM, NM

✓


LOCATION DATA		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): <u>shovel</u> core other
Location ID: <u>CL15-1312</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	 brown surface consistent throughout
<u>12:46</u>	<u>45</u>		
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	<u>brown surface</u>	none H <sub>2</sub> S	
gravel	drab olive	slight petroleum	
<u>sand (F M C)</u>	brown	moderate other:	
<u>silt</u>	<u>gray dark</u>	strong	
clay	black		


✓

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>	Sampling Method (circle): <u>shovel</u> core other
Location ID: <u>BP8-A10</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	 brown surface uniform dark gray silt/ fine sand
<u>1300</u>	<u>45</u>	-	
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	<u>brown surface</u>	<u>none</u> H <sub>2</sub> S	
gravel	drab olive	slight petroleum	
<u>sand (F M C)</u>	brown	moderate other:	
<u>silt</u>	<u>gray</u>	strong	
clay	black		

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/15/18 Sampler(s): RM, NM

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL15-B17</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		 Brown surface uniform brown/gray fine sand + silt	
<u>1226</u>	<u>45</u>	<u>-</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL15-B16</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		 Brown surface uniform gray fine sand + silt } medium sand	
<u>1238</u>	<u>45</u>	<u>-</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

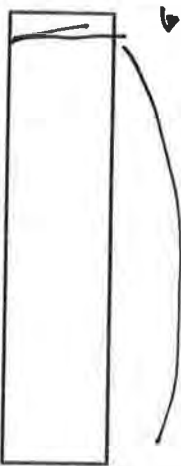
# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM


Project Name: LDWAOC3

Task No.: 4

Date: 6/15/18

Sampler(s): RM, NM

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>B40 CL15 - B10</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		 <p>brown surface</p> <p>dark grey fine sand silt consistent</p>	
1307	45	-			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand</u> (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray dark</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BPS - A06</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		 <p>← Brown surface</p> <p>uniform dark gray very fine sand &amp; silt</p>	
1320	45 cm	-			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand</u> (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

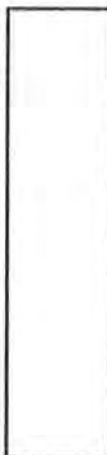
Project Name: LDWAOC3

Task No.: 4


Date: 6/15/18

Sampler(s): RM, NM

✓


LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other							
Location ID: <u>CL15-B08</u>				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
<u>1335</u>	<u>45</u>	<u>-</u>									
						<u>Brown surface</u>					
						<u>uniform dark gray silt</u>					
SAMPLE DATA											
Sediment type	Sediment color	Sediment odor									
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S								
gravel	drab olive	slight	petroleum								
sand (F M C)	brown	moderate	other:								
<u>silt</u>	<u>gray</u>	strong									
clay	black										


✓

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other							
Location ID: <u>CL15-B09</u>				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
<u>13:41</u>	<u>45cm</u>	<u>-</u>									
						<u>brown surface</u>					
						<u>uniform dark gray silt &amp; fine sand</u>					
SAMPLE DATA											
Sediment type	Sediment color	Sediment odor									
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S								
gravel	drab olive	slight	petroleum								
sand (F M C)	brown	moderate	other:								
<u>silt</u>	<u>gray dark</u>	strong									
clay	black										

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 9/15/18 Sampler(s): EM, NM

LOCATION DATA		Area Type (circle): Clam <input type="radio"/> Beach <input checked="" type="radio"/>		Sampling Method (circle): shovel <input checked="" type="radio"/> core <input type="radio"/> other <input type="radio"/>	
Location ID: <u>B03-A02</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		 <p>Brown surface uniform gray silt / fine sand</p>	
<u>1400</u>	<u>45</u>	<u>-</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand</u> (M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): Clam <input type="radio"/> Beach <input checked="" type="radio"/>		Sampling Method (circle): shovel <input checked="" type="radio"/> core <input type="radio"/> other <input type="radio"/>	
Location ID: <u>CL15-B07</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		 <p>cobble / gravel silt / fine sand lighter gray silt uniform dark gray silt fine sand</p>	
<u>2:29 PM</u>	<u>45</u>	<u>-</u>			
<u>1429</u>					
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
<u>cobble</u>	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand</u> (M C)	brown	moderate	other:		
<u>silt</u>	<u>gray dark</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM


Project Name: LDW AOC3 Task No.: 4  
 Date: 6-15-18 Sampler(s): RM NM


LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL15-1314</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>10:30</u>	<u>45</u>	—			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand</u> (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL15-1002</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>10:48</u>	<u>45</u>	—			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray dark</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM


Project Name: LDWAOC3 Task No.: 4  
 Date: 6/15/18 Sampler(s): NM, RM


LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP8-A20</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		 brown surface  dark grey silt consistent throughout	
<u>12:20</u>	<u>45</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand</u> (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray dark</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP8-A16</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		 brown surface  dark grey silt & fine sand consistent throughout	
<u>12:30</u>	<u>45</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand</u> (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray dark</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6/15/18 Sampler(s): RM, NM

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP8 - A22</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments		 <p>silt brown surface consistent throughout</p>	<p>very fine woody debris throughout moved due to rip rap</p>
<u>12:00</u>	<u>45</u>	-			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F/M/C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray dark</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL15 - B19</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments		 <p>see above</p>	<p>moved due to water samples</p>
<u>12:00</u>	<u>45</u>	-			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F/M/C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray dk.</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 06/15/18 Sampler(s): AV

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>LDW18-BP7-A11</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1206</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
silt	gray	strong			
clay	<u>black</u>				

*moved from target due to riprap*

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CC15-Ade</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1223</u>	<u>45cm</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black				

*moved due to tide level*

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6/15/18 Sampler(s): AV

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>LDW18-CLIS-B01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1300</u>	<u>45</u>	<u>-</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	<u>brown</u>	moderate	other:		
<u>silt</u>	gray	strong			
<u>clay</u>	<u>black</u>				

moved due to  
Cobble

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>LDW18-BP7-B02</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1259</u>	<u>45</u>	<u>-</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	<u>brown</u>	moderate	other:		
<u>silt</u>	gray	strong			
<u>clay</u>	<u>black</u>				

moved due to  
Cobble

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6/15/18 Sampler(s): JMF

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL15-A08</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1220</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F/M/C)</u>	brown	moderate	other:		
<u>silt trace</u>	<u>gray dark</u>	strong			
clay	black				

moved 1.5 ft west of original location due to fishing net embedded deep in hole

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL15-B02</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1305</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4

Date: 6/15/18 Sampler(s): AE, JR, AV



<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>Shovel</u> core other	
Location ID: <u>RP7 - R01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1255</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
silt	<u>gray</u>	strong			
<u>clay</u>	<u>black</u>				



<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>Shovel</u> core other	
Location ID: <u>RP7 - R05</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1305</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	<u>black</u>				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6-15-2018 Sampler(s): AE

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL15-A01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 50px; height: 100px; display: inline-block;"></div> uniform	
<u>1100</u>	<u>45</u>	<u>—</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	<u>black</u>				

LOCATION DATA		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID:				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 50px; height: 100px; display: inline-block;"></div>	
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/15/18

Sampler(s): JR/AV

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>LDWAOC3-CL15-A02</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1055</u>	<u>45</u>				
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <del>LDWAOC3-CL15-A02</del> <u>RP7-A05</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1142</u>	<u>45cm</u>	<u>—</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
sand (F M C)	<u>brown</u> <u>rust</u>	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6/15/18 Sampler(s): AE, JR, AV

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>BP7-A02</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1115</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	<u>black</u>				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL15-A04</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1140</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>		
gravel	drab olive	<u>slight</u>	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	<u>black</u>				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/15/18

Sampler(s): AE, JR, AV

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>RP7-A10</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1155</u>	<u>45</u>	<u>—</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black				

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>RP7-A13</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1210</u>	<u>45</u>	<u>—</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	<u>black</u>				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/15/18 Sampler(s): AE, JR, AV

✓

<b>LOCATION DATA</b>		Area Type (circle): Clam <input checked="" type="radio"/> Beach		Sampling Method (circle): shovel <input checked="" type="radio"/> core other	
Location ID: <u>RP7-A12</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1230</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<input checked="" type="radio"/> brown surface	none	<input checked="" type="radio"/> H <sub>2</sub> S		
gravel	drab olive	<input checked="" type="radio"/> slight	petroleum		
sand (F M C)	brown	moderate	other:		
<input checked="" type="radio"/> silt	<input checked="" type="radio"/> gray	strong			
<input checked="" type="radio"/> clay	<input checked="" type="radio"/> black <u>Red clay</u>				

<b>LOCATION DATA</b>		Area Type (circle): Clam <input type="radio"/> Beach		Sampling Method (circle): shovel <input type="radio"/> core other	
Location ID:				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: A013

Date: 06.15.18

Sampler(s): JR

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>LDW18-BP7-A01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1115</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	<u>slight</u>	petroleum		
sand (F M C)	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	<u>black</u>				

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle) <u>shovel</u> core other	
Location ID: <u>BP7-A04</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1127</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>		
gravel	drab olive	<u>slight</u>	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	<u>black</u>				

FINES @ DEPTH  
+ SURFACE  
FINESAND  
15-30cm

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: A003

Date: 06.15.18

Sampler(s): JR

✓

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other							
Location ID: <u>B07-A07</u>				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
<u>1138</u>	<u>45</u>	—									
<div style="border: 1px solid black; padding: 5px; width: 100px; height: 150px; display: inline-block; vertical-align: middle;"> <p style="margin: 0;">BLK/GREY FINES</p> <p style="margin: 0;">COBBLE/GRAVEL</p> <p style="margin: 0;">COURSE SAND</p> <p style="margin: 0;">BROWN</p> </div>											
						<b>SAMPLE DATA</b>					
						Sediment type	Sediment color	Sediment odor			
						<input type="radio"/> cobble <input type="radio"/> gravel <input checked="" type="radio"/> sand (F M C) <input type="radio"/> silt <input type="radio"/> clay	<input checked="" type="radio"/> brown surface <input type="radio"/> drab olive <input checked="" type="radio"/> brown <input type="radio"/> gray <input type="radio"/> black	<input checked="" type="radio"/> none <u>H<sub>2</sub>S</u> <input checked="" type="radio"/> slight petroleum <input type="radio"/> moderate other: <input type="radio"/> strong			

✓

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other							
Location ID: <u>B07-A08</u>				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
<u>1148</u>	<u>45</u>	—									
<div style="border: 1px solid black; width: 100px; height: 150px; display: inline-block; vertical-align: middle;"></div>											
						<b>SAMPLE DATA</b>					
						Sediment type	Sediment color	Sediment odor			
						<input type="radio"/> cobble <input type="radio"/> gravel <input checked="" type="radio"/> sand (F M C) <input type="radio"/> silt <input type="radio"/> clay	<input checked="" type="radio"/> brown surface <input type="radio"/> drab olive <input type="radio"/> brown <input type="radio"/> gray <input type="radio"/> black	<input checked="" type="radio"/> none H <sub>2</sub> S <input type="radio"/> slight petroleum <input type="radio"/> moderate other: <input type="radio"/> strong			



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: AOC3 - trash 4  
 Date: 06.15.18 Sampler(s): JR

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BPOBT-A09</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1200</u>	<u>45</u>	<u>—</u>			
<div style="border: 1px solid black; width: 100%; height: 100%; display: flex; align-items: center; justify-content: center; padding: 20px;">                 COBBLE @ 8 in depth             </div>					
<b>Sediment type</b>		<b>Sediment color</b>		<b>Sediment odor</b>	
cobble <input checked="" type="checkbox"/> gravel <input checked="" type="checkbox"/> sand (F M C) <input checked="" type="checkbox"/> silt <input type="checkbox"/> clay <input type="checkbox"/>		brown surface <input type="checkbox"/> drab olive <input type="checkbox"/> brown <input checked="" type="checkbox"/> gray <input checked="" type="checkbox"/> black <input type="checkbox"/>		none <input checked="" type="checkbox"/> H <sub>2</sub> S slight <input type="checkbox"/> petroleum moderate <input type="checkbox"/> other: strong <input type="checkbox"/>	

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel core other	
Location ID: <u>CL15-A07</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1217</u>	<u>45</u>	<u>NONE</u>			
<div style="border: 1px solid black; width: 100%; height: 100%; display: flex; align-items: center; justify-content: center; padding: 20px;">                 (Empty)             </div>					
<b>Sediment type</b>		<b>Sediment color</b>		<b>Sediment odor</b>	
cobble <input type="checkbox"/> gravel <input type="checkbox"/> sand (F M C) <input type="checkbox"/> silt <input checked="" type="checkbox"/> clay <input checked="" type="checkbox"/>		brown surface <input checked="" type="checkbox"/> drab olive <input type="checkbox"/> brown <input checked="" type="checkbox"/> gray <input type="checkbox"/> black <input checked="" type="checkbox"/>		none <input checked="" type="checkbox"/> H <sub>2</sub> S slight <input type="checkbox"/> petroleum moderate <input type="checkbox"/> other: strong <input type="checkbox"/>	

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/15/18 Sampler(s): JMF

✓

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BPT-AD4</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1130</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
Sediment type		Sediment color		Sediment odor	
cobble		<u>brown surface</u>		<u>none</u> H <sub>2</sub> S	
gravel		drab olive		slight petroleum	
<u>sand (F M C)</u>		brown		moderate other:	
<u>silt</u>		<u>gray dark</u>		strong	
<u>clay</u>		black			

✓

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL15-AD5</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1150</u>	<u>45</u>	<u>some rust colored sand near surface</u>			
<b>SAMPLE DATA</b>					
Sediment type		Sediment color		Sediment odor	
cobble		<u>brown surface</u>		<u>none</u> H <sub>2</sub> S	
gravel		drab olive		slight petroleum	
<u>sand (F M C)</u>		brown		moderate other:	
<u>silt trace-sme</u>		<u>gray</u>		strong	
clay		black			

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/15/18

Sampler(s): AE, JMF

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP7-A03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1055</u>	<u>45</u>	<u>-</u>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand</u> (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray dark</u>	strong			
<u>clay</u>	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL15-A03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1110</u>	<u>45</u>	<u>meshed on water surface. trace of some small wood bits</u>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>		
gravel	drab olive	<u>slight</u>	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray dark</u>	strong			
<u>clay</u>	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: AOC3.4

Date: 06.15.18

Sampler(s): JR

<b>LOCATION DATA</b>		Area Type (circle): Clam <input type="checkbox"/> Beach <input checked="" type="checkbox"/>		Sampling Method (circle): shovel <input checked="" type="checkbox"/> core <input type="checkbox"/> other <input type="checkbox"/>																													
Location ID: B027 - B03		Additional Notes																															
Sample Time	Penetration depth (cm)	Comments																															
1257	45	—																															
<table border="1"> <tr> <td colspan="6"><b>SAMPLE DATA</b></td> </tr> <tr> <td>Sediment type</td> <td>Sediment color</td> <td colspan="2">Sediment odor</td> <td colspan="2" rowspan="5"> </td> </tr> <tr> <td>cobble</td> <td>brown surface</td> <td>none</td> <td>H<sub>2</sub>S</td> </tr> <tr> <td>gravel</td> <td>drab olive</td> <td>slight</td> <td>petroleum</td> </tr> <tr> <td>sand (F M C)</td> <td>brown</td> <td>moderate</td> <td>other:</td> </tr> <tr> <td>silt</td> <td>gray</td> <td>strong</td> <td></td> </tr> </table>						<b>SAMPLE DATA</b>						Sediment type	Sediment color	Sediment odor				cobble	brown surface	none	H <sub>2</sub> S	gravel	drab olive	slight	petroleum	sand (F M C)	brown	moderate	other:	silt	gray	strong	
						<b>SAMPLE DATA</b>																											
Sediment type	Sediment color	Sediment odor																															
cobble	brown surface	none	H <sub>2</sub> S																														
gravel	drab olive	slight	petroleum																														
sand (F M C)	brown	moderate	other:																														
silt	gray	strong																															
clay	black																																

<b>LOCATION DATA</b>		Area Type (circle): Clam <input type="checkbox"/> Beach <input checked="" type="checkbox"/>		Sampling Method (circle): shovel <input checked="" type="checkbox"/> core <input type="checkbox"/> other <input type="checkbox"/>																													
Location ID: B027 - B04		Additional Notes																															
Sample Time	Penetration depth (cm)	Comments																															
1310	45	—																															
<table border="1"> <tr> <td colspan="6"><b>SAMPLE DATA</b></td> </tr> <tr> <td>Sediment type</td> <td>Sediment color</td> <td colspan="2">Sediment odor</td> <td colspan="2" rowspan="5"> </td> </tr> <tr> <td>cobble</td> <td>brown surface</td> <td>none</td> <td>H<sub>2</sub>S</td> </tr> <tr> <td>gravel</td> <td>drab olive</td> <td>slight</td> <td>petroleum</td> </tr> <tr> <td>sand (F M C)</td> <td>brown</td> <td>moderate</td> <td>other:</td> </tr> <tr> <td>silt</td> <td>gray</td> <td>strong</td> <td></td> </tr> </table>						<b>SAMPLE DATA</b>						Sediment type	Sediment color	Sediment odor				cobble	brown surface	none	H <sub>2</sub> S	gravel	drab olive	slight	petroleum	sand (F M C)	brown	moderate	other:	silt	gray	strong	
						<b>SAMPLE DATA</b>																											
Sediment type	Sediment color	Sediment odor																															
cobble	brown surface	none	H <sub>2</sub> S																														
gravel	drab olive	slight	petroleum																														
sand (F M C)	brown	moderate	other:																														
silt	gray	strong																															
clay	black																																

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/15/18 Sampler(s): JF, JR

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL15-304</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1320</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	JF 6/15/18	
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	<u>black</u>				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL13-301</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1402</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	NA JR 6/15	
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	<u>black</u>				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: 4

Date: 6/15/18

Sampler(s): AE, AV

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): shovel core other	
Location ID: <u>BPS-F16</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>1405</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray dark</u>	strong			
clay	black				

location moved out of water. Algae on sed surface

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL12</u> <del>CL15 G185</del>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>1420</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
cobble	<u>brown surface</u>	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	<u>black</u>				

Polychaetes in top 15cm

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6/15/18 Sampler(s): AV, AE

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): <u>shovel</u> core other
Location ID: <u>CL15-B03</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	
<u>1320</u>	<u>45cm</u>	<u>-</u>	
<b>SAMPLE DATA</b>			
Sediment type	Sediment color	Sediment odor	
<u>cobble</u>	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S
<u>gravel</u>	drab olive	slight	petroleum
sand (F M C)	brown	moderate	other:
silt	<u>gray</u>	strong	
clay	black		

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach	Sampling Method (circle): shovel <u>core</u> other
Location ID: <u>LDW18-CL12-H01</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	
<u>1432</u>	<u>45</u>	<u>-</u>	
<b>SAMPLE DATA</b>			
Sediment type	Sediment color	Sediment odor	
<u>cobble</u>	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>
gravel	drab olive	slight	petroleum
sand (F M C)	brown	moderate	other:
<u>silt</u>	<u>gray</u>	strong	
<u>clay</u>	black		

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6.15.2018 Sampler(s): AV, AE

✓

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other																																											
Location ID: <u>CL12-H03</u>				Additional Notes																																											
Sample Time	Penetration depth (cm)	Comments																																													
<u>1440</u>	<u>45</u>	<u>—</u>																																													
<table border="1"> <tr> <td colspan="6"><b>SAMPLE DATA</b></td> </tr> <tr> <td><b>Sediment type</b></td> <td><b>Sediment color</b></td> <td colspan="4"><b>Sediment odor</b></td> </tr> <tr> <td>cobble</td> <td><u>brown surface</u></td> <td><u>none</u></td> <td colspan="3">H<sub>2</sub>S</td> </tr> <tr> <td>gravel</td> <td>drab olive</td> <td>slight</td> <td colspan="3">petroleum</td> </tr> <tr> <td>sand (F M C)</td> <td>brown</td> <td>moderate</td> <td colspan="3">other:</td> </tr> <tr> <td><u>silt</u></td> <td><u>gray</u></td> <td>strong</td> <td colspan="3"></td> </tr> <tr> <td><u>clay</u></td> <td><u>black</u></td> <td></td> <td colspan="3"></td> </tr> </table>						<b>SAMPLE DATA</b>						<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>				cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S			gravel	drab olive	slight	petroleum			sand (F M C)	brown	moderate	other:			<u>silt</u>	<u>gray</u>	strong				<u>clay</u>	<u>black</u>				
						<b>SAMPLE DATA</b>																																									
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<u>silt</u>	<u>gray</u>	strong																																													
<u>clay</u>	<u>black</u>																																														
<div style="border: 1px solid black; width: 100px; height: 100px; display: inline-block;"></div> Polychaetes in 15-30 cm																																															

✓

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other																																											
Location ID: <u>CL12-H05</u>				Additional Notes																																											
Sample Time	Penetration depth (cm)	Comments																																													
<u>1450</u>	<u>45</u>	<u>—</u>																																													
<table border="1"> <tr> <td colspan="6"><b>SAMPLE DATA</b></td> </tr> <tr> <td><b>Sediment type</b></td> <td><b>Sediment color</b></td> <td colspan="4"><b>Sediment odor</b></td> </tr> <tr> <td>cobble</td> <td><u>brown surface</u></td> <td><u>none</u></td> <td colspan="3">H<sub>2</sub>S</td> </tr> <tr> <td>gravel</td> <td>drab olive</td> <td>slight</td> <td colspan="3">petroleum</td> </tr> <tr> <td>sand (F M C)</td> <td>brown</td> <td>moderate</td> <td colspan="3">other:</td> </tr> <tr> <td><u>silt</u></td> <td><u>gray</u></td> <td>strong</td> <td colspan="3"></td> </tr> <tr> <td><u>clay</u></td> <td><u>black</u></td> <td></td> <td colspan="3"></td> </tr> </table>						<b>SAMPLE DATA</b>						<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>				cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S			gravel	drab olive	slight	petroleum			sand (F M C)	brown	moderate	other:			<u>silt</u>	<u>gray</u>	strong				<u>clay</u>	<u>black</u>				
						<b>SAMPLE DATA</b>																																									
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>																																													
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sand (F M C)	brown	moderate	other:																																												
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<u>clay</u>	<u>black</u>																																														
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# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/15/18 Sampler(s): JR + JF

✓

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other							
Location ID: CLZ - H04				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
1449	45	—									
<b>SAMPLE DATA</b>											
						Sediment type	Sediment color	Sediment odor			
						cobble gravel sand (F M C) silt clay	brown surface drab olive brown gray black	none slight moderate strong	H <sub>2</sub> S petroleum other:		
						JR 6/15					

✓

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other							
Location ID: CLZ - H08				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
1505	45	—									
<b>SAMPLE DATA</b>											
						Sediment type	Sediment color	Sediment odor			
						cobble gravel sand (F M C) silt clay	brown surface drab olive brown gray black	none slight moderate strong	H <sub>2</sub> S petroleum other:		
						Some woody debris JA 6/15					

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6/15/18 Sampler(s): JMF

✓

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL12-900</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		woody debris present trace-some	
<u>1430</u>	<u>45</u>	—			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	gray	strong			
<u>clay</u>	<u>black</u>				

✓

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL12-HPT</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1455</u>	<u>45</u>	—			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt trace</u>	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6.15.2018 Sampler(s): AE, AV

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL12-H06</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1455</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	<u>black</u>				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID:				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6/16/18 Sampler(s): NM, RM, FH, SR

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL04-A06</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1349</u>	<u>45</u>	<u>—</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL05-A01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1359</u>	<u>45</u>	<u>—</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/16/18 Sampler(s): NM, RM, AH, SR

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL10-A01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1207</u>	<u>45</u>	<u>relocated due to water line</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown + orange</u>	moderate	other:		
silt	<u>gray surface</u>	strong			
clay	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL10-A02</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1207</u>	<u>45</u>	—			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
<u>cobble</u>	brown surface	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6/16/18 Sampler(s): NM, RM, AM, SR

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL10-A03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1213</u>	<u>45</u>	<u>—</u>			
SAMPLE DATA Sediment type      Sediment color      Sediment odor cobble              brown surface <u>none</u> H <sub>2</sub> S gravel                drab olive          slight          petroleum <u>sand (F M C)</u> <u>brown</u> moderate      other: <u>silt</u> <u>gray</u> strong clay                    black					

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL10-A04</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1216</u>	<u>45</u>	<u>moved due to substrate (too rocky)</u>			
SAMPLE DATA Sediment type      Sediment color      Sediment odor <u>cobble</u> <u>brown surface</u> none      H <sub>2</sub> S <u>gravel</u> drab olive          slight <u>petroleum</u> <u>sand (F M C)</u> brown                moderate      other: silt                    gray clay                    black <u>red</u>					

sheen throughout  
cobble throughout

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/16/18 Sampler(s): NM, RM, AH, SR

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other							
Location ID: <u>CLΦ-A AH</u> <u>CLΦ-BΦ1</u>				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
<u>1224</u>	<u>45</u>	<u>—</u>									
<div style="border: 1px solid black; width: 100px; height: 150px; display: inline-block; vertical-align: middle;"></div> } gray coarse sand  } <del>30-45 cm</del> AH } 35-45 cm fine silt and sand											
						SAMPLE DATA					
						Sediment type	Sediment color	Sediment odor			
						cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
						gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:								
silt	<u>gray</u>	strong									
clay	black										

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other							
Location ID: <u>CLΦ-BΦ2</u>				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
<u>1227</u>	<u>45</u>	<u>moved due to rip rap</u>									
<div style="border: 1px solid black; width: 100px; height: 150px; display: inline-block; vertical-align: middle;"></div> } cobbles and bricks/brick chunks and med sand  } 30 cm to 45 cm : gravel throughout with coarse sand											
						SAMPLE DATA					
						Sediment type	Sediment color	Sediment odor			
						<u>cobble</u>	brown surface	<u>none</u>	H <sub>2</sub> S		
						<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:								
silt	gray	strong									
clay	black										



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/16/18 Sampler(s): NM, RM, AH, SR

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other							
Location ID: <u>BP6-A09 (and FD)</u>				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
<u>1234</u>	<u>45</u>	<u>—</u>									
Additional Notes: brown surface w/ med. gravel gravel and brice throughout fine + med. sand (brown) throughout											
						SAMPLE DATA					
						Sediment type	Sediment color	Sediment odor			
						cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
						<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:								
silt	gray	strong									
clay	black										

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other							
Location ID: <u>BP6-A08 (and FD)</u>				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
<u>1240</u>	<u>45</u>	<u>moved due to rip rap</u>									
Additional Notes: Cobble, gravel, bricks throughout med + coarse brown sand with red and orange features throughout											
						SAMPLE DATA					
						Sediment type	Sediment color	Sediment odor			
						<u>cobble</u>	brown surface	<u>none</u>	H <sub>2</sub> S		
						<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:								
silt	gray	strong									
clay	black										

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

✓ Project Name: LDW AOC3 Task No.: 4  
 ✓ Date: 6/16/18 Sampler(s): NM, RM, AH, SR

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other							
Location ID: <u>BPG-AΦ6 (and FO)</u>				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
<u>1243</u>	<u>45</u>	<u>moved due to substrate (rip/rap)</u>									
<div style="border: 1px solid black; width: 100px; height: 150px; display: flex; align-items: center; justify-content: center;"> <p style="font-size: 2em; margin: 0;">}</p> <p style="margin: 0;"> <u>brown surface</u>  <u>5 cm: thin red layer</u>   <u>black coarse sand and small gravel</u> </p> </div>											
						SAMPLE DATA					
						Sediment type	Sediment color	Sediment odor			
						cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
						<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:								
silt	gray	strong									
clay	<u>black</u>										

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other							
Location ID: <u>BPG-AΦ4 (and FO)</u>				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
<u>1248</u>	<u>45</u>	<u>moved due to bulkhead</u>									
<div style="border: 1px solid black; width: 100px; height: 150px; display: flex; align-items: center; justify-content: center;"> <p style="font-size: 2em; margin: 0;">}</p> <p style="margin: 0;"> <u>red sand (brown)</u>   <u>30cm - 45cm</u>  <u>gravel + black fines</u>  <u>+ woody debris</u> </p> </div>											
						SAMPLE DATA					
						Sediment type	Sediment color	Sediment odor			
						cobble	brown surface	none	H <sub>2</sub> S		
						<u>gravel</u>	drab olive	slight	<u>petroleum</u>		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:								
silt	gray	strong									
clay	<u>black</u>										

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4

Date: 6/16/18 Sampler(s): NM, RM, AH, SR

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP6-AΦ5 (and FD)</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1254</u>	<u>45</u>	<u>—</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	black				

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>BP6-AΦ3 (and FD)</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1304</u>	<u>45</u>	<u>—</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: task 4  
 Date: 6-16-2018 Sampler(s): NM

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel core</u> other	
Location ID: <u>BP6-A07</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			} 0-5cm brown/orange ← patch of white material at about 15 cm below surface } 5-45cm dk gray brick fragments
<u>1310</u>	<u>45</u>	<u>relocated out of water (target below low tide line)</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel <i>trace</i>	drab olive	slight	petroleum		
sand (F M C) <u>(F M C)</u>	brown	moderate	other:		
silt	<u>gray</u> <i>dk.</i>	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID:				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			(This section is crossed out with a large 'X')
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/16/18 Sampler(s): NM, RM, AH, SR

✓

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP6-A01 (and FD)</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1315</u>	<u>45</u>	<u>—</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	gray	strong			
clay	black				

✓

1327

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP6-A02 (and FD)</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1327<sup>PM</sup></u>	<u>45</u>	<u>relocated due to muddy substrate</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/16/18 Sampler(s): NM, RM, AH, SR

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL14-B07</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>1059</u>	<u>45</u>	<u>—</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
silt	gray	strong			
clay	black				

gravel on surface  
some cobble

uniform <sup>brown</sup> coarse sand.

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL14-B08</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>1103</u>	<u>45</u>	<u>moved due to tide to water line</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				


gravel on surface

uniform gray-brown medium sand


# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/16/18 Sampler(s): NM, KM, AM, SR

✓

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL14-B05</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			brown M-C sand 0-10 cm and cobble large gravel with gray med-course sand
<u>1115</u>	<u>45</u>	<u>moved due to rocks/substrate</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
<u>cobble</u>	brown surface	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

✓

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL14-B04</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			coarse/med. sand w/ gravel throughout
<u>1120</u>	<u>45</u>	<u>moved slightly due to substrate.</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/16/18 Sampler(s): NM, RM, AH, SR

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other						
Location ID: <u>CL14-B03</u>				Additional Notes						
Sample Time	Penetration depth (cm)	Comments								
<u>1125</u>	<u>45</u>	<u>moved due to substrate</u>								
<div style="border: 1px solid black; width: 100px; height: 100px; display: inline-block; vertical-align: middle;"></div> uniform throughout: med.-coarse sand w/gravel and some cobbles. sand is brown										
						SAMPLE DATA				
						Sediment type	Sediment color	Sediment odor		
						<u>cobble</u> <u>gravel</u> <u>sand</u> (F M C) silt clay	brown surface drab olive <u>brown</u> gray black	<u>none</u> H <sub>2</sub> S slight petroleum moderate other: strong		

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other						
Location ID: <u>CL14-B02</u>				Additional Notes						
Sample Time	Penetration depth (cm)	Comments								
<u>1128</u>	<u>45</u>	<u>—</u>								
<div style="border: 1px solid black; width: 100px; height: 100px; display: inline-block; vertical-align: middle;"></div> uniform throughout med-coarse sand brown sand										
						SAMPLE DATA				
						Sediment type	Sediment color	Sediment odor		
						cobble gravel <u>sand</u> (F M C) silt clay	brown surface drab olive <u>brown</u> gray black	<u>none</u> H <sub>2</sub> S slight petroleum moderate other: strong		



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6/16/18 Sampler(s): NM, RM, AH, SR

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL14-BØ1</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1134</u>	<u>45</u>	<u>moved due to rtp rap</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:		
silt	gray	strong			
clay	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL14-AØ1</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1138</u>	<u>45</u>	<u>moved down due to rtp rap</u>			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand</u> (F M C)	brown	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: \_\_\_\_\_

Date: 6/16/18

Sampler(s): NM

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL14-306</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 50px; height: 100px; display: inline-block;"></div> <p>Brown surface gray/brown coarse sand + small gravel</p>	
<u>1110</u>	<u>45cm</u>	<u>-</u>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID:				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 50px; height: 100px; display: inline-block;"></div>	
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: 4

Date: 06/16/2018

Sampler(s): BB, BC, RC

<b>LOCATION DATA</b>		<b>Area Type (circle):</b> Clam <u>Beach</u>		<b>Sampling Method (circle):</b> <u>shovel</u> core other	
Location ID: BP3-C01				<b>Additional Notes</b>	
<b>Sample Time</b>	<b>Penetration depth (cm)</b>	<b>Comments</b>			
1142	45	—			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	<u>gray</u> <i>dk</i>	strong			
clay	black				

<b>LOCATION DATA</b>		<b>Area Type (circle):</b> Clam <u>Beach</u>		<b>Sampling Method (circle):</b> <u>shovel</u> core other	
Location ID: BP3-B04				<b>Additional Notes</b>	
<b>Sample Time</b>	<b>Penetration depth (cm)</b>	<b>Comments</b>			
1158	45	—			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	<u>drab olive</u>	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
<u>clay</u>	black				

wood chips in sediment

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 7  
 Date: 11/16/18 Sampler(s): BC1, BB, RC

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other																																													
Location ID: <u>C103-405</u>				Additional Notes																																													
Sample Time	Penetration depth (cm)	Comments																																															
<u>1130</u>	<u>45</u>	<u>—————</u>																																															
<table border="1"> <tr> <td colspan="6"><b>SAMPLE DATA</b></td> </tr> <tr> <td>Sediment type</td> <td>Sediment color</td> <td colspan="4">Sediment odor</td> </tr> <tr> <td>cobble</td> <td>brown surface</td> <td>none</td> <td colspan="3">H<sub>2</sub>S</td> </tr> <tr> <td><u>gravel</u></td> <td><u>drab olive</u></td> <td>slight</td> <td colspan="3">petroleum</td> </tr> <tr> <td><u>sand (F M C)</u></td> <td><u>brown</u></td> <td>moderate</td> <td colspan="3">other:</td> </tr> <tr> <td>silt</td> <td>gray</td> <td>strong</td> <td colspan="3"></td> </tr> <tr> <td>clay</td> <td><u>black</u></td> <td></td> <td colspan="3"></td> </tr> </table>						<b>SAMPLE DATA</b>						Sediment type	Sediment color	Sediment odor				cobble	brown surface	none	H <sub>2</sub> S			<u>gravel</u>	<u>drab olive</u>	slight	petroleum			<u>sand (F M C)</u>	<u>brown</u>	moderate	other:			silt	gray	strong				clay	<u>black</u>					wood waste layered sediment w/ darker silt at lower depths and lighter sands on top	
						<b>SAMPLE DATA</b>																																											
Sediment type	Sediment color	Sediment odor																																															
cobble	brown surface	none	H <sub>2</sub> S																																														
<u>gravel</u>	<u>drab olive</u>	slight	petroleum																																														
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:																																														
silt	gray	strong																																															
clay	<u>black</u>																																																

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other																																													
Location ID: <u>C103-301</u>				Additional Notes																																													
Sample Time	Penetration depth (cm)	Comments																																															
<u>1140</u>	<u>45</u>	<u>—————</u>																																															
<table border="1"> <tr> <td colspan="6"><b>SAMPLE DATA</b></td> </tr> <tr> <td>Sediment type</td> <td>Sediment color</td> <td colspan="4">Sediment odor</td> </tr> <tr> <td>cobble</td> <td>brown surface</td> <td>none</td> <td colspan="3">H<sub>2</sub>S</td> </tr> <tr> <td>gravel</td> <td><u>drab olive</u></td> <td>slight</td> <td colspan="3">petroleum</td> </tr> <tr> <td><u>sand (F M C)</u></td> <td>brown</td> <td>moderate</td> <td colspan="3">other:</td> </tr> <tr> <td><u>silt</u></td> <td><u>gray</u></td> <td>strong</td> <td colspan="3"></td> </tr> <tr> <td>clay</td> <td>black</td> <td></td> <td colspan="3"></td> </tr> </table>						<b>SAMPLE DATA</b>						Sediment type	Sediment color	Sediment odor				cobble	brown surface	none	H <sub>2</sub> S			gravel	<u>drab olive</u>	slight	petroleum			<u>sand (F M C)</u>	brown	moderate	other:			<u>silt</u>	<u>gray</u>	strong				clay	black					Uniform wet sediment	
						<b>SAMPLE DATA</b>																																											
Sediment type	Sediment color	Sediment odor																																															
cobble	brown surface	none	H <sub>2</sub> S																																														
gravel	<u>drab olive</u>	slight	petroleum																																														
<u>sand (F M C)</u>	brown	moderate	other:																																														
<u>silt</u>	<u>gray</u>	strong																																															
clay	black																																																

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 06/16/18

Sampler(s): BB, RC, BC

<b>LOCATION DATA</b>		<b>Area Type (circle):</b> Clam Beach		<b>Sampling Method (circle):</b> shovel core other	
Location ID: CL03-AD2				<b>Additional Notes</b>	
<b>Sample Time</b>	<b>Penetration depth (cm)</b>	<b>Comments</b>			
1217	45	—			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S	very rocky - large cobbles mixed with sand  not fun to dig  moved: to avoid rocks, preventing 45 cm penetration	
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

<b>LOCATION DATA</b>		<b>Area Type (circle):</b> Clam Beach		<b>Sampling Method (circle):</b> shovel core other	
Location ID: BP3-B10				<b>Additional Notes</b>	
<b>Sample Time</b>	<b>Penetration depth (cm)</b>	<b>Comments</b>			
1320	45	—			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S	moved: attempting to get shovel good core sandy and silty	
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/16/18

Sampler(s): BC, BB, RC, KM

<b>LOCATION DATA</b>		<b>Area Type (circle):</b> Clam Beach		<b>Sampling Method (circle):</b> shovel core other																																													
Location ID: C103-103		Additional Notes																																															
Sample Time	Penetration depth (cm)	Comments																																															
1200	45	—																																															
<table border="1"> <tr> <td colspan="2"><b>SAMPLE DATA</b></td> <td colspan="4"></td> </tr> <tr> <td><b>Sediment type</b></td> <td><b>Sediment color</b></td> <td colspan="2"><b>Sediment odor</b></td> <td colspan="2"></td> </tr> <tr> <td>cobble</td> <td>brown surface</td> <td>none</td> <td>H<sub>2</sub>S</td> <td colspan="2"></td> </tr> <tr> <td>gravel</td> <td>drab olive</td> <td>slight</td> <td>petroleum</td> <td colspan="2"></td> </tr> <tr> <td>sand (F M C)</td> <td>brown</td> <td>moderate</td> <td>other:</td> <td colspan="2"></td> </tr> <tr> <td>silt</td> <td>gray</td> <td>strong</td> <td></td> <td colspan="2"></td> </tr> <tr> <td>clay</td> <td>black</td> <td></td> <td></td> <td colspan="2"></td> </tr> </table>						<b>SAMPLE DATA</b>						<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>				cobble	brown surface	none	H <sub>2</sub> S			gravel	drab olive	slight	petroleum			sand (F M C)	brown	moderate	other:			silt	gray	strong				clay	black					rocky, wet; sandy near surface (top 5-10 cm) and rocky below <hr/> moved; hole was filling w/ water	
						<b>SAMPLE DATA</b>																																											
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>																																															
cobble	brown surface	none	H <sub>2</sub> S																																														
gravel	drab olive	slight	petroleum																																														
sand (F M C)	brown	moderate	other:																																														
silt	gray	strong																																															
clay	black																																																

<b>LOCATION DATA</b>		<b>Area Type (circle):</b> Clam Beach		<b>Sampling Method (circle):</b> shovel core other																																													
Location ID: B13-B02		Additional Notes																																															
Sample Time	Penetration depth (cm)	Comments																																															
1215	45	—																																															
<table border="1"> <tr> <td colspan="2"><b>SAMPLE DATA</b></td> <td colspan="4"></td> </tr> <tr> <td><b>Sediment type</b></td> <td><b>Sediment color</b></td> <td colspan="2"><b>Sediment odor</b></td> <td colspan="2"></td> </tr> <tr> <td>cobble</td> <td>brown surface</td> <td>none</td> <td>H<sub>2</sub>S</td> <td colspan="2"></td> </tr> <tr> <td>gravel</td> <td>drab olive</td> <td>slight</td> <td>petroleum</td> <td colspan="2"></td> </tr> <tr> <td>sand (F M C)</td> <td>brown</td> <td>moderate</td> <td>other:</td> <td colspan="2"></td> </tr> <tr> <td>silt</td> <td>gray</td> <td>strong</td> <td></td> <td colspan="2"></td> </tr> <tr> <td>clay</td> <td>black</td> <td></td> <td></td> <td colspan="2"></td> </tr> </table>						<b>SAMPLE DATA</b>						<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>				cobble	brown surface	none	H <sub>2</sub> S			gravel	drab olive	slight	petroleum			sand (F M C)	brown	moderate	other:			silt	gray	strong				clay	black					uniform gray sandy throughout  jar lid is cracked; bag sealed (replaced lid after sampling complete)	
						<b>SAMPLE DATA</b>																																											
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>																																															
cobble	brown surface	none	H <sub>2</sub> S																																														
gravel	drab olive	slight	petroleum																																														
sand (F M C)	brown	moderate	other:																																														
silt	gray	strong																																															
clay	black																																																

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/16/18

Sampler(s): RC KM BC BB

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other							
Location ID: <u>C203-A04</u>				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
1142	45	—									
<div style="border: 1px solid black; width: 100%; height: 100%; display: flex; align-items: center; justify-content: center;"> <p style="font-size: 2em; margin: 0;">silt + fine sand uniform throughout organic debris top 5cm</p> </div>											
						<b>SAMPLE DATA</b>					
						Sediment type	Sediment color	Sediment odor			
						cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>		
gravel	drab olive	<u>slight</u>	petroleum								
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:								
<u>silt</u>	gray	strong									
clay	black										

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other							
Location ID: <u>BP3-<del>A04</del> B06</u>				Additional Notes							
Sample Time	Penetration depth (cm)	Comments									
1151	45	—									
<div style="border: 1px solid black; width: 100%; height: 100%; display: flex; align-items: center; justify-content: center;"> <p style="font-size: 2em; margin: 0;">gravel + sand on surface uniform silt/clay throughout</p> </div>											
						<b>SAMPLE DATA</b>					
						Sediment type	Sediment color	Sediment odor			
						cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum								
<u>sand (F M C)</u>	brown	moderate	other:								
<u>silt</u>	<u>gray</u>	strong									
<u>clay</u>	black										

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/16/16 Sampler(s): RC KM BC BB

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP3-B03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1208</u>	<u>45</u>	<div style="border: 1px solid black; width: 50px; height: 100px; display: inline-block; vertical-align: middle;"></div> } 10cm sand/silt + organic debris  } clay/cobble gravel uniform throughout			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
<u>cobble</u>	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
<u>silt</u>	gray	strong			
<u>clay</u>	<u>black</u>				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL03-A01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1222</u>	<u>45</u>	<div style="border: 1px solid black; width: 50px; height: 100px; display: inline-block; vertical-align: middle;"></div> } 22cm sand w/some gravel  } gravel to cobble coarse sand			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
<u>cobble</u>	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	<u>moderate</u>	other:		
silt	gray	strong			
clay	black				



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 06/16/18 Sampler(s): BB, BC, RC

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP3 - B09</u>				<b>Additional Notes</b>  Could not dig deep enough before hole filled up, and corer would not penetrate because of coarse sand, so we could only get to 38 cm	
Sample Time	Penetration depth (cm)	Comments			
<u>1300</u>	<u>38</u>	—			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M <u>C</u> )	<u>brown</u> <u>light</u>	moderate	other:		
silt	gray	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL03 - A06</u>				<b>Additional Notes</b>  location moved slightly towards shoreline from original location to avoid rocks	
Sample Time	Penetration depth (cm)	Comments			
<u>1343</u>	<u>45</u>	—			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	<u>slight</u>	petroleum		
sand (F M <u>C</u> )	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/16/18 Sampler(s): BL, RC, BB

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: <u>BP3-A01</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>1230</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S	coarse sediment deepest layer (35 cm+) was black Finer sand at surface Coarse sand at ~ 15-30 cm	
<u>gravel</u>	<u>drab olive</u>	slight	petroleum		
<u>sand (F M C)</u>	brown	moderate	other:		
<u>silt</u>	gray	strong			
clay	<u>black</u>				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID:		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/16/18 Sampler(s): BB, BC, RC

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>	Sampling Method (circle): <u>shovel</u> core other
Location ID: <u>BP3 - <del>BFE</del> (SM) D08</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	
<u>1048</u>	<u>45</u>	<u>—</u>	
<b>SAMPLE DATA</b>			
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	<u>none</u>	H <sub>2</sub> S
gravel	<u>drab olive</u>	slight	petroleum
sand (F M C)	brown	moderate	other:
<u>silt</u>	<u>gray</u>	strong	
clay	black		

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>	Sampling Method (circle): shovel <u>core</u> other
Location ID: <u>BP3 - D01</u>		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	
<u>1102</u>	<u>45</u>	<u>—</u>	
<b>SAMPLE DATA</b>			
Sediment type	Sediment color	Sediment odor	
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S
gravel	drab olive	slight	petroleum
sand (F M C)	brown	moderate	other:
silt	gray	strong	
<u>clay</u>	black		

on top →  
 most →  
 of depth

location moved  
 upriver and in shore  
 so we could sample,  
 because of high tide

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/16/18

Sampler(s): R.C. R.M. B.C. B.B.

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other																									
Location ID: <u>BP3-D03</u>				Additional Notes																									
Sample Time	Penetration depth (cm)	Comments																											
<u>1104</u>	<u>45</u>	—																											
<p><b>SAMPLE DATA</b></p> <table border="1"> <tr> <td>Sediment type</td> <td>Sediment color</td> <td colspan="2">Sediment odor</td> </tr> <tr> <td>cobble</td> <td><u>brown surface</u></td> <td>none</td> <td><u>H<sub>2</sub>S</u></td> </tr> <tr> <td>gravel</td> <td>drab olive</td> <td><u>slight</u></td> <td>petroleum</td> </tr> <tr> <td><u>sand (F M C)</u></td> <td><u>brown</u></td> <td>moderate</td> <td>other:</td> </tr> <tr> <td><u>silt</u></td> <td><u>gray</u></td> <td>strong</td> <td></td> </tr> <tr> <td>clay</td> <td>black</td> <td></td> <td></td> </tr> </table>						Sediment type	Sediment color	Sediment odor		cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>	gravel	drab olive	<u>slight</u>	petroleum	<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	<u>silt</u>	<u>gray</u>	strong		clay	black		
						Sediment type	Sediment color	Sediment odor																					
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>																										
gravel	drab olive	<u>slight</u>	petroleum																										
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:																										
<u>silt</u>	<u>gray</u>	strong																											
clay	black																												
		<p>relocated out of water</p> <ul style="list-style-type: none"> <li>organic debris throughout</li> <li>glass fragments</li> <li>uniform fine-medium to coarse sand</li> </ul> <p>20cm } gray, silt fine sand mix</p>																											

LOCATION DATA		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other																									
Location ID: <u>BP3-B03(S14) B08</u>				Additional Notes																									
Sample Time	Penetration depth (cm)	Comments																											
<u>1131</u>	<u>45</u>	—																											
<p><b>SAMPLE DATA</b></p> <table border="1"> <tr> <td>Sediment type</td> <td>Sediment color</td> <td colspan="2">Sediment odor</td> </tr> <tr> <td>cobble</td> <td><u>brown surface</u></td> <td>none</td> <td><u>H<sub>2</sub>S</u></td> </tr> <tr> <td><u>gravel</u></td> <td>drab olive</td> <td><u>slight</u></td> <td>petroleum</td> </tr> <tr> <td><u>sand (F M C)</u></td> <td><u>brown</u></td> <td>moderate</td> <td>other:</td> </tr> <tr> <td><u>silt</u></td> <td><u>gray</u></td> <td>strong</td> <td></td> </tr> <tr> <td>clay</td> <td>black</td> <td></td> <td></td> </tr> </table>						Sediment type	Sediment color	Sediment odor		cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>	<u>gravel</u>	drab olive	<u>slight</u>	petroleum	<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	<u>silt</u>	<u>gray</u>	strong		clay	black		
						Sediment type	Sediment color	Sediment odor																					
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>																										
<u>gravel</u>	drab olive	<u>slight</u>	petroleum																										
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:																										
<u>silt</u>	<u>gray</u>	strong																											
clay	black																												
		<p>sand + gravel on surface</p> <p>5cm dark gray sand/silt</p> <p>brown sand/silt mix throughout</p> <ul style="list-style-type: none"> <li>organic debris throughout</li> </ul>																											

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: 4

Date: 6/16/18

Sampler(s): RC KM BC BB

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>Shovel</u> core other	
Location ID: <u>BP3-<del>A01</del> B01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1232	45	—			
<p>relocated due to impenetrable sediment ~20cm deep</p> <p>• sand to cobble uniform throughout</p>					
Sediment type	Sediment color	Sediment odor			
<u>cobble</u>	brown surface	none	<u>H<sub>2</sub>S</u>		
gravel	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	<u>moderate</u>	other:		
silt	gray	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam <u>Beach</u>		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>BP3-B07</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1254	45	—			
<p>} 15cm sand + gravel</p> <p>} fine, med., coarse sand</p>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/16/18

Sampler(s): RC KM BC BB

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID: BP3-B03		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
1312	45	-			
<p>-top 5cm brown                  -rest of sample dark gray                  -uniform sand + gravel throughout                  -relocated due to riprap</p>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID:		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<p><del>(This section is crossed out)</del></p>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: 4

Date: 6/16/18

Sampler(s): AE

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL12-603</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>1350</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>		
gravel	drab olive	<u>slight</u>	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	<u>black</u>				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID:		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/16/18

Sampler(s): AE, AV, JR

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL17-G01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1340</u>	<u>45</u>	<u>---</u>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	<u>H<sub>2</sub>S</u>		
<u>gravel</u>	drab olive	slight	petroleum		
sand (F/M/C)	brown	<u>moderate</u>	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	<u>black</u>				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID:				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F/M/C)	brown	moderate	other:		
silt	gray	strong			
clay	black				



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6.16.18 Sampler(s): JR

LOCATION DATA		Area Type (circle): <input checked="" type="radio"/> Clam <input type="radio"/> Beach		Sampling Method (circle): shovel <input checked="" type="radio"/> core <input type="radio"/> other	
Location ID: <u>CL12-C10</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center;"> <p style="font-size: 2em; margin: 0;">NONE</p> <p style="font-size: 2em; margin: 0;">JR</p> </div>	
<u>1235</u>	<u>45</u>	—			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<input checked="" type="radio"/> sand (F M C)	<input checked="" type="radio"/> brown	moderate	other:		
<input checked="" type="radio"/> silt	<input checked="" type="radio"/> gray	strong			
clay	black				

LOCATION DATA		Area Type (circle): <input checked="" type="radio"/> Clam <input type="radio"/> Beach		Sampling Method (circle): shovel <input checked="" type="radio"/> core <input type="radio"/> other	
Location ID: <u>CL12-D01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center;"> <p style="font-size: 2em; margin: 0;">JR</p> <p style="font-size: 2em; margin: 0;">6/16</p> </div>	
<u>1246</u>	<u>45</u>	—			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<input checked="" type="radio"/> brown surface	<input checked="" type="radio"/> none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<input checked="" type="radio"/> sand (F M C)	brown	moderate	other:		
<input checked="" type="radio"/> silt	<input checked="" type="radio"/> gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6/16/18 Sampler(s): JR

✓

<b>LOCATION DATA</b>		<b>Area Type (circle):</b> <input checked="" type="radio"/> Clam <input type="radio"/> Beach		<b>Sampling Method (circle):</b> <input checked="" type="radio"/> shovel <input type="radio"/> core <input type="radio"/> other	
Location ID: <u>CL12-E01</u>				<b>Additional Notes</b>  Relocated, from COBBLE/GRAVEL  JR	
<b>Sample Time</b>	<b>Penetration depth (cm)</b>	<b>Comments</b>			
<u>1315</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
<input checked="" type="radio"/> gravel	drab olive	slight	petroleum		
<input checked="" type="radio"/> sand (F M C)	<input checked="" type="radio"/> brown	moderate	other:		
<input checked="" type="radio"/> silt	<input checked="" type="radio"/> gray	strong			
clay	black				

<b>LOCATION DATA</b>		<b>Area Type (circle):</b> <input type="radio"/> Clam <input type="radio"/> Beach		<b>Sampling Method (circle):</b> <input type="radio"/> shovel <input type="radio"/> core <input type="radio"/> other	
Location ID:				<b>Additional Notes</b>	
<b>Sample Time</b>	<b>Penetration depth (cm)</b>	<b>Comments</b>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: 4

Date: 6.16.18

Sampler(s): JR

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL12-D03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1254	45	_____			
<b>SAMPLE DATA</b>					
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F/M/C)</u>	<u>brown</u>	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

JR

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL12-E02</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1329	45	_____			
<b>SAMPLE DATA</b>					
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	<u>drab olive</u>	slight	petroleum		
<u>sand (F/M/C)</u>	<u>brown</u>	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	<u>black</u>				

Relocated due to  
COBBLE + RIPRAP

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/16/2018 Sampler(s): JR

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL12-D04</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1301</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M <u>C</u> )	<u>brown</u>	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other	
Location ID:				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	none	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3

Task No.: 4

Date: 6.16.18

Sampler(s): JR

<b>LOCATION DATA</b>		Area Type (circle): <input checked="" type="radio"/> Clam <input type="radio"/> Beach		Sampling Method (circle): shovel <input checked="" type="radio"/> core <input type="radio"/> other	
Location ID: CL12-C06				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1214	45	ALGAL MAT ON TOP			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<input checked="" type="radio"/> brown surface	<input checked="" type="radio"/> none	H <sub>2</sub> S		
gravel	drab olive	<input checked="" type="radio"/> slight	petroleum		
<input checked="" type="radio"/> sand (F M C)	brown	moderate	other:		
<input checked="" type="radio"/> silt	<input checked="" type="radio"/> gray	strong			
<input checked="" type="radio"/> clay	black				

LOC IN WATER  
6700ERS  
Inland to collect sample.  
COARSE SAND

<b>LOCATION DATA</b>		Area Type (circle): <input checked="" type="radio"/> Clam <input type="radio"/> Beach		Sampling Method (circle): shovel <input checked="" type="radio"/> core <input type="radio"/> other	
Location ID: CL12-C09				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
1226	45				
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<input checked="" type="radio"/> none	H <sub>2</sub> S		
gravel	drab olive	<input checked="" type="radio"/> slight	petroleum		
<input checked="" type="radio"/> sand (F M C)	<input checked="" type="radio"/> brown	moderate	other:		
silt	<input checked="" type="radio"/> gray	strong			
clay	black				

NUMO

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/16/18 Sampler(s): AE, AU

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>CL12-G02</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1107</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	<u>black</u>				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL12-C04</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1159</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C)	<u>brown</u>	moderate	other:		
silt	gray	strong			
clay	black				

moved due to water

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/16/18 Sampler(s): AE

<b>LOCATION DATA</b>		Area Type (circle): Clam Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>LDWAOC3 C12-C05</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1210</u>	<u>45</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none H <sub>2</sub> S			
<u>gravel</u>	drab olive	slight petroleum			
sand (F/M/C)	<u>brown</u>	moderate other:			
silt	gray	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>C12-C08</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1225</u>	<u>40</u>	<u>—</u>			
<b>SAMPLE DATA</b>					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none H <sub>2</sub> S			
<u>gravel</u>	drab olive	slight petroleum			
sand (F/M/C)	<u>brown</u>	moderate other:			
silt	gray	strong			
clay	black				

used core due to water, only able to penetrate to 40cm  
~~used shovel~~  
 Algae covered surface

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3

Task No.: 4

Date: 6/16/18

Sampler(s): AE

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL12-D02</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 50px; height: 100px; margin-bottom: 5px;"></div> <del>CL12-D02 core</del> <del>CL12-D02 core</del> <del>CL12-D02 core</del> Only able to penetrate to 40 cm.	
<u>1255</u>	<u>40</u>	—			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	<u>brown surface</u>	none	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
sand (F M C) <u>(M C)</u>	<u>brown</u>	moderate	other:		
silt	gray	strong			
clay	black				

LOCATION DATA		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): shovel <u>core</u> other	
Location ID: <u>CL12-D06</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 50px; height: 100px; margin-bottom: 5px;"></div> JR	
<u>1308</u>	<u>40</u> <sup>#6114</sup>	—			
SAMPLE DATA					
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
sand (F M C) <u>(M C)</u>	<u>brown</u>	moderate	other:		
silt	<u>gray</u>	strong			
clay	black				



# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/16/18 Sampler(s): AL

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u><del>LDWAOC3</del> CL12-C03</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 100%; height: 100%; padding: 5px;">                 moved off of Cap             </div>	
<u>1205</u>	<u>45</u>	—			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
silt	gray	strong			
clay	black				

<b>LOCATION DATA</b>		Area Type (circle): <u>Clam</u> Beach		Sampling Method (circle): <u>shovel</u> core other	
Location ID: <u>LDW18-CL12-C07</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments		<div style="border: 1px solid black; width: 100%; height: 100%;"></div>	
<u>1218</u>	<u>45</u>	—			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
<u>gravel</u>	drab olive	slight	petroleum		
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDWAOC3 Task No.: 4  
 Date: 6/16/18 Sampler(s): AV

<b>LOCATION DATA</b>		<b>Area Type (circle):</b> Clam Beach		<b>Sampling Method (circle):</b> shovel core other	
Location ID: <del>LDWAOC3</del> - <u>CL12-C11</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>1237</u>	<u>45</u>	-			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F, M, C)</u>	<u>brown</u>	moderate	other:		
silt	gray	strong			
clay	black				

<b>LOCATION DATA</b>		<b>Area Type (circle):</b> Clam Beach		<b>Sampling Method (circle):</b> shovel core other	
Location ID: <del>LDWAOC3</del> - <u>CL12-C12</u>		Additional Notes			
Sample Time	Penetration depth (cm)	Comments			
<u>1250</u>	<u>45</u>	-			
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand (F, M, C)</u>	<u>brown</u>	moderate	other:		
silt	gray	strong			
clay	black				

# INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Project Name: LDW AOC3 Task No.: 4  
 Date: 6/16/18 Sampler(s): AV

<b>LOCATION DATA</b>		<b>Area Type (circle):</b> <u>Clam</u> Beach		<b>Sampling Method (circle):</b> <u>shovel</u> core other	
Location ID: <u>LDW18-CL12-005</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1309</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
<u>cobble</u>	brown surface	<u>none</u>	H <sub>2</sub> S		
gravel	drab olive	slight	petroleum		
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:		
silt	gray	strong			
clay	black				

<b>LOCATION DATA</b>		<b>Area Type (circle):</b> <u>Clam</u> Beach		<b>Sampling Method (circle):</b> <u>shovel</u> core other	
Location ID: <u>CL12-F01</u>				Additional Notes	
Sample Time	Penetration depth (cm)	Comments			
<u>1338</u>	<u>45</u>				
<b>SAMPLE DATA</b>					
<b>Sediment type</b>	<b>Sediment color</b>	<b>Sediment odor</b>			
cobble	<u>brown surface</u>	<u>none</u>	<u>H<sub>2</sub>S</u>		
gravel	drab olive	<u>slight</u>	petroleum		
sand (F M C)	brown	moderate	other:		
<u>silt</u>	<u>gray</u>	strong			
<u>clay</u>	<u>black</u>				

moved due to  
cobble

**BANK SOIL COLLECTION FORM**

Project Name/Number: AOC3 / TASK 4 Weather: overcast  
Date: 6/14/18 Crew: BC, Kristea  
Sampling Method: trammel (hand collected) Bank ID: 1  
Composite Sample ID: N/A

Location ID: <u>BNK1-1</u>	Sample Time: <u>0945</u>	Sample Depth: <u>10 cm</u>
Location Description (coordinates or distances from landmarks; elevation): <u>North end of Kellogg Island, vegetated bank.</u>		
Sample Description (i.e., including grain size, color, odor):		
Comments: <u>all sand, fine to med. grain, uniform throughout; vegetated bank</u>		

Location ID:	Sample Time:	Sample Depth:
Location Description (coordinates or distances from landmarks; elevation):		
Sample Description (i.e., including grain size, color, odor):		
Comments:		

Location ID:	Sample Time:	Sample Depth:
Location Description (coordinates or distances from landmarks; elevation):		
Sample Description (i.e., including grain size, color, odor):		
Comments:		

# BANK SOIL COLLECTION FORM

Project Name/Number: 1003<sup>BANK</sup> Sed Sampling  
 Date: 06.14.16  
 Sampling Method: hand collect  
 Composite Sample ID: N/A

Weather: 60's, cloudy  
 Crew: AJ, JR, AE, TD  
 Bank ID: BANKZ

Location ID: <u><del>1003</del> BANKZ-1</u>	Sample Time: <u>1215</u>	Sample Depth: <u>10 cm</u>
Location Description (coordinates or distances from landmarks; elevation): <u>Below CF ZZZ on rip rap slope (steep)</u>		
Sample Description (i.e., including grain size, color, odor): <u>gray, clay/gravel, C-M-F sand, no odor</u> <u>brown</u>		
Comments: <u>moved from target on rip rap slope</u>		

Location ID:	Sample Time:	Sample Depth:
Location Description (coordinates or distances from landmarks; elevation):		
Sample Description (i.e., including grain size, color, odor):		
Comments:		

Location ID:	Sample Time:	Sample Depth:
Location Description (coordinates or distances from landmarks; elevation):		
Sample Description (i.e., including grain size, color, odor):		
Comments:		

# BANK SOIL COLLECTION FORM

Project Name/Number: A003 task 4  
 Date: 6/13/18  
 Sampling Method: trawl  
 Composite Sample ID: N/A

Weather: Partly cloudy  
 Crew: N. Maas  
 Bank ID: Bank 3-3

Location ID: <u>Bank 3-3</u>	Sample Time: <u>1020</u>	Sample Depth: <u>10 cm</u>
Location Description (coordinates or distances from landmarks; elevation): <u>Just north of overpass (bridge?) near old pilings</u>		
Sample Description (i.e., including grain size, color, odor): <u>no odor</u> <u>Gray/brown sand, very gravel surface, surrounded by cobble</u>		
Comments: <u>moved from target based on QAPP requirements</u>		

Location ID: <u>Bank 3-1</u>	Sample Time: <u>1038</u>	Sample Depth: <u>10cm</u>
Location Description (coordinates or distances from landmarks; elevation): <u>Under west bridge, near support pilings</u>		
Sample Description (i.e., including grain size, color, odor): <u>Brown/gray coarse/medium sand, small gravel</u>		
Comments: <u>none</u>		

Location ID: <u>Bank 3-2</u>	Sample Time: <u>0945</u>	Sample Depth: <u>10cm</u>
Location Description (coordinates or distances from landmarks; elevation): <u>back in creek inlet along west bank Slightly <sup>(1-2ft)</sup> higher elevation than creek</u>		
Sample Description (i.e., including grain size, color, odor): <u>gray/brown sand. Coarse/med sand, gravel. No odor.</u>		
Comments: <u>Filamentous algae at surface.</u> <u>none</u>		

# BANK SOIL COLLECTION FORM

Project Name/Number: DUNAMISH AOC3  
 Date: 6.13.18  
 Sampling Method: TROWL  
 Composite Sample ID: \_\_\_\_\_

Weather: PARTLY CLOUDY, 60°  
 Crew: J. RHEUBEN, A. EDGINGTON  
 Bank ID: BANK 4

Location ID: <u>BNK4-1</u>	Sample Time: <u>0923</u>	Sample Depth: <u>10 CM</u>
Location Description (coordinates or distances from landmarks; elevation): <u>BETWEEN ARMURED SHORE + BARGE, RIP RAP + GRAVEL PRESENT</u>		
Sample Description (i.e., including grain size, color, odor): <u>COURSE + MED SAND, SOME GRAVEL, BROWN, NO ODOR</u>		
Comments: <u>NONE</u>		

Location ID: <u>BNK4-2</u>	Sample Time: <u>0930</u>	Sample Depth: <u>10 CM</u>
Location Description (coordinates or distances from landmarks; elevation): <u>RIP RAP + DOCKS ABOVE/BELOW, COBBLE + GRAVEL PRESENT +</u>		
Sample Description (i.e., including grain size, color, odor): <u>LOTS OF COBBLE GLASS</u> <u>FINE SAND, GRAVEL, FINES, NO ODOR</u> <u>BROWN SURFACE,</u> <u>RUST COLOR BELOW</u>		
Comments: <u>MIXED B/C BIG ROCK</u>		

Location ID: <u>BNK4-3</u>	Sample Time: <u>0936</u>	Sample Depth: <u>10 CM</u>
Location Description (coordinates or distances from landmarks; elevation): <u>UPLAND, ADJACENT TO MUDFLAT, PILINGS, BARGES</u>		
Sample Description (i.e., including grain size, color, odor): <u>GRAVEL, FINE SAND, RUST COLOR, DARK BROWN, NO ODOR</u>		
Comments: <u>ROCKS + METAL DEBRIS ADJACENT</u>		

# BANK SOIL COLLECTION FORM

Project Name/Number: LDW AOC3  
 Date: 6/12/18  
 Sampling Method: grab  
 Composite Sample ID: N/A

Weather: 60s, cloudy  
 Crew: TD, SA, NM, KM  
 Bank ID: BNKS-1 km

Location ID: <u>BNKS-1</u>	Sample Time: <u>1235</u>	Sample Depth: <u>10 cm</u>
Location Description (coordinates or distances from landmarks; elevation): <u>near Oswamish Waterway Park</u>		
Sample Description (i.e., including grain size, color, odor): <u>fine and medium sand, trace fines, organic matter, greyish-brown, no odor</u>		
Comments: <u>collected field duplicate and extra material for grain size QC</u>		

Location ID:	Sample Time:	Sample Depth:
Location Description (coordinates or distances from landmarks; elevation):		
Sample Description (i.e., including grain size, color, odor):		
Comments:		

Location ID:	Sample Time:	Sample Depth:
Location Description (coordinates or distances from landmarks; elevation):		
Sample Description (i.e., including grain size, color, odor):		
Comments:		



# BANK SOIL COLLECTION FORM

Project Name/Number: AOC3 bank soil / A <sup>TASK</sup>  
 Date: 6/15/18  
 Sampling Method: grab (hand collected)  
 Composite Sample ID: N/A

Weather: 60s, sunny  
 Crew: BC, RC, KM, NM, RM  
 Bank ID: 6

Location ID: <u>BNK-6-1</u>	Sample Time: <u>1445</u>	Sample Depth: <u>0-10 cm</u>
Location Description (coordinates or distances from landmarks; elevation): <u>adjacent to marsh grass, location covered in forbs</u>		
Sample Description (i.e., including grain size, color, odor): <u>no odor, brown, soil w/ fine sand w/ some orange</u>		
Comments: <u>none</u>		

Location ID: <u>BNK-6-2</u>	Sample Time: <u>11:30</u>	Sample Depth: <u>10 cm</u>
Location Description (coordinates or distances from landmarks; elevation): <u>Just west of abandoned boat</u>		
Sample Description (i.e., including grain size, color, odor): <u>Fine sand + silt, brown surface, dark gray. Layer of filamentous algae on top. No odor</u>		
Comments: <u>none</u>		

Location ID:	Sample Time:	Sample Depth:
Location Description (coordinates or distances from landmarks; elevation):		
Sample Description (i.e., including grain size, color, odor):		
Comments:		

## Field Notes

02.23.18

T. Do

0730 Arrive at Harbor Island Marina.  
Meet up w/ Gravity Crew.

Ed Sloan & Mike Duffield  
Also w/ Rachel Crawford (Cleanways)  
and Kristen Kerns (USACE, newsight).

0745 Load supplies and eqpt.  
Weather clear, 20's.

0750 Health & Safety briefing.

0800 Head to Outfall 8134.

0807 Attempt 1, 25" 10", rock in jaws, <sup>3cm</sup> reject.

0810 Attempt 2, rejected, washed out, 13cm.

0814 Attempt 3, rejected, washed out, 13cm.

0815 Move off target

0818 Attempt 4, rejected, washed out 3 cm.

0820 Attempt 5, rejected, only rocks.

0824 Attempt 6, rejected, only rocks.

0830 Move on to Outfall 2226

0845 Attempt 1, 7" 7", rock in jaws, washed out  
rejected.

0847 Attempt 2, 1 rock, rejected.

0849 Attempt 3, rock in jaws, rejected  
Moved slightly off target.

0851 Attempt 4, rocks in jaws, some sediment  
washed out, < 3cm, rejected.

08.23.18

T. Do.

0853 Attempt 5, 1 rock in jaws, rejected.

0855 Attempt 6, grab empty, < 1cm in corner  
rejected.

0857 Move on to Outfall T107 Point

0902 Attempt 1, 3 ft., rocks in jaws, rejected.

0903 Attempt 2, rock caught in jaws, washed  
out, no sediment, rejected.

0906 Attempt 3, empty (only algae), rejected.

0907 Moved slightly off target.

0910 Attempt 4, 7 cm, set aside for  
potential keeping.

0930 Attempt 5, 1 rock, < 2 cm sediment  
(barely), rejected.

0933 Attempt 6, 11 cm, slightly over  
50 ft. from outfall, 5.5 ft depth.  
Discussed w/ Kristina about which  
to keep. Decided better quality  
sample is the last grab (> 10 cm  
penetration from > 50 ft. distance  
from outfall vs. 7 cm from  
> 40 ft. distance from outfall).  
Field duplicate LAMS<sup>#01</sup> T107 Point-FD  
also collected.

1015 Head to marina to pick up jars for

*Ret in the Rain.*

02.23.17

T.D.O.

Porewater locations.

- 1040 Got jaws from Anava. Head to 1<sup>st</sup> Ave ramp to pick up more air for pneumatic sampler and fuel for boat.
- 1135 Head to location 179 for PW/SMS sediment.
- 1141 Grab attempt 1, 24" 10", over-penetrated rejected.
- 1144 Attempt 2, over-penetrated, rejected.
- 1148 Attempt 3, 24cm, accepted.  
Also collected extra vol. for lab grain size QC.
- 1208 Head to location 183
- 1212 Not accessible b/c of barges
- 1215 Outfall 214 also not accessible b/c of barges.
- 1220 Head to Outfall 5<sup>th</sup> Ave S.
- 1232 Attempt 1, 6ft, 3cm, rejected.
- 1233 Attempt 2, 6cm, rejected.
- 1235 Attempt 3, 6cm, washed out, rejected.  
Move slightly off target.
- 1239 Attempt 4, 16cm, on one side, will keep to see if better grabs.

02.23.17

T.D.O.

- 1245 ~~Attempt 5~~ <sup>TB</sup> Talked to Kristen about keeping sample from 4<sup>th</sup> grab (taken about 50ft from outfall) instead of trying 2 more times. She agreed b/c we got >10cm, and it was close enough to target radius.
- 1305 Head to location ~~184~~ 184 (PW/SMS sediment)
- 1315 Attempt 1, 8' 2", 15cm on one half, not enough vol so will reject and try again.
- 1318 Attempt 2, 13cm same as previous rejected.
- 1320 Attempt 3, rock in jaws, rejected.
- 1324 Attempt 4, 12cm, same as before rejected.
- 1328 Attempt 5, 24cm, accepted.
- 1340 Head to Outfall 2109
- 1355 location 2 on land, called Susie to ask about moving location. OK to do so as long as w/in 50ft radius of outfall.
- 1403 Attempt 1, 5' 9", 15cm, accepted
- 2109-1
- Note in the Rain.*

02.23.17

T. DO

- 1426 At 2109-Z (relocated to in-water)  
 1427 Grab attempt 1, 4', 15cm, accepted.  
 1445 Head to 2003 outfall  
 1502 Arrive at 2003, not accessible during lower tide.  
 1505 Head to location 109 (pw/sms)  
 1510 Attempt 1, 21', rocks in jaws, rejected.  
 1515 Attempt 2, 18', accepted.  
 1530 Head back to marina.  
 1545 Arrive at marina. Off load supplies/samples. End of on-water day.

~~Full  
 on 23.17  
 TDO~~

02.28.18

TDO

- 0700 Arrive at Harbor Island Marina.  
 K. McPeak, TDO (WW)  
 Meet up w/ Gravity: E. Sloan, P. Jenkins  
 0710 N. Haas & J. Pheasant arrives, load supplies.  
 0715 Rachel Crawford arrives (Clearways).  
 0730 Remy Mathonnet & Clearways and Nate Malmborg (EPA-USGS) arrives. RSS (Eric Parker) arrives.  
 Weather: overcast, 40's.  
 Kate, Jenna, Remy, Nate, and Eric & Andrew will continue composite sediment sampling.  
 Nina, Rachel, Thai, Ed & Pete will resume outfall & pw sampling.  
 0740 Health and Safety briefing; head up river to collect samples  
 0815 Arrive at location 187 (SMS) - PW  
 0829 Attempt 1, 22.5 ft, 23cm, accept.  
 Collected field duplicate LDW18-SS-187-FD also.  
 0910 Head to location 188 - PW

0228.18

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- 0915 Attempt 1, 17.7 ft, 23cm, accept.
- 0925 Head to Outfall Ditch #2
- 0935 Target location on land (in blackberry bush and rip rap). Relocated in field to w/in 50 ft of outfall coordinates.
- 0941 Attempt 1, 8.5 ft. rocks in jaws, reject.
- 0944 Attempt 2, 21cm, accept, 15m from outfall. (unable to get closer b/c of rip rap shoreline).
- 0955 Head to Outfall DUNSD #3  
Target on riprap/land. Relocate w/in 50ft.
- 1009 Attempt 1, 0.5 ft. 3cm, reject.
- 1011 Attempt 2, 8cm, reject
- 1015 Attempt 3, collect by hand at shoreline 0 ft depth, 10cm, accept
- 1025 Head to Outfall Delta Marine  
Access blocked by Yacht's dock lines.
- 1030 Head to 2100A
- 1037 Attempt 1, 7.6 ft, empty/rock, reject.
- 1038 Attempt 2, empty/rock, reject.
- 1039 Attempt 3, 16cm, accept, 41ft from outfall. (2100A-1)
- 1055 Second sample will be collected

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- from 50-100 ft from outfall.  
(Target coordinates under marina dock.
- 1101 Attempt 1, 5.8 ft., 14cm, accepted, about 90 ft. from outfall (2100A-2)
- 1115 Head to Outfall 2101
- 1121 Attempt 1, 6.4 ft., rocks, rejected.
- 1123 Attempt 2, 20cm, accept.
- 1135 Head to South Park Marina to pick up more jars from Amara and take lunch/bathroom break.
- 1145 Head to Location 186 (PW) (SMS)
- 1209 Attempt 1, 9.7 ft, 16cm, accept.
- 1223 Head to Location 185 - PW
- 1227 Attempt 1, 10.6 ft., 18cm, accept.
- 1242 Head to Outfall 2215  
Riprap bank, moved off ~ 40ft from outfall
- 1252 Attempt 1, 4.9 ft., 10cm, but washed out from rocks in jaws, reject.
- 1254 Attempt 2, 10 cm, but only gravel, reject
- 1258 Attempt 3, rocks, reject.
- 1259 Move slightly downstream to alternate area.
- 1300 Attempt 4, rocks, reject

02.28.18

- DD
- 1301 Attempt 5, rocks, washed out, reject.
- 1303 Attempt 6, rocks, washed out, reject.
- 1305 Station aborted until further notice. Head to Outfall CleanScapes B near Slip 4.
- 1323 Attempt 1, 9.9 ft, 16 cm, accept
- 1332 Head to Location 183 and Outfall 2114
- 1340 Area blocked by multiple barges and tug boats, narrow passageway along bank blocked by dock lines. A lot of crane activity overhead.
- 1348 Head to Outfall Dawn Foods
- 1352 Attempt 1, 16.8 ft, 17 cm, accept.
- 1405 Head to Location 180 - PW
- 1410 Attempt 1, 11.5 ft, 24.5 cm, accept.
- 1427 Head to Location 181 - PW
- 1432 Attempt 1, 12.5 ft, 27 cm, accept
- 1443 Head to Location 182 - PW
- 1447 Attempt 1, 7.5 ft, 7 cm, reject.
- 1448 Attempt 2, 5 cm, reject.
- 1450 Attempt 3, 8 cm, coarse gravel, washed out, reject.
- 1452 Depart to recon outfall & reoccupy rawwater stations for

02.28.18

TD

access. Will return to 182 at another date.

~~21~~ Outfalls 2507, 2509, 2510

2509: target too far up bank  
can't get up in 50 ft. of outfall  
coordinates.

2507: no issue w/access, except  
GPS readings in accurate  
under 1st Ave. bridge.

2510: NOT accessible, can't get  
past bridge.

Outfalls Glacier NW - CBP and  
Gen Biodiesel in slip 2  
currently unblocked.

Reoccupy PW location 178 - no issue

Reoccupy PW location 177 - no issue

Reoccupy PW location 176 - no issue

Reoccupy PW location 175 - no issue

Reoccupy PW location 174 - no issue, tide

Reoccupy PW location 173 - no issue

Reoccupy PW location 172 - no issue

Reoccupy PW location 171 - no issue

Reoccupy PW location 170 - no issue

Outfalls 2003 and Fed Ctr S - no issue  
(tide)

*rite in the rain*

02.28.18

- TDO
- 1530 Head back to marina.
  - 1540 Arrive at marina. Offload supplies/samples; work on COCs.
  - 1600 Depart marina. End of on-water field day.

02.28.18 TDO

03.01.18

TDO

- 0710 Arrive at Harbor Island Marina  
K. McPeak, N. Maas, J. Reuben,  
T Do. (Windward)  
partly cloudy, 40's.
- 0715 Meet w/ Gravity (E. Scanlon &  
P. Jenkins) and Clearways  
(R. Crawford). Load supplies  
and prep.
- 0730 Jake Williams (USEPA oversight,  
~~not~~ ~~USACE~~) arrives
- 0740 Health & Safety briefing; depart  
marina, head down to  
resume attempts and location  
182
- 0800 Arrive at Location 182 -PW
- 0801 Attempt 4, 5.6ft, 7cm, stopped, reject
- 0803 Attempt 5, 21cm, accept, ~10ft. off.
- 0820 Head to location 178 (SMS) -PW
- 0830 Attempt 1, 31.8ft, overpenetrate, reject
- 0834 Attempt 2, 9cm, reject
- 0839 Attempt 3, 22cm, accepted  
Collected field duplicate  
LDW18-SS-178-FD, because  
sample (and field dup) for location



03.01.18

TDD

187 may be discarded, and re-located).

- 0853 Head to Location 176, noticed Location 50 is free of barge so will collect it first.
- 0900 At Location 50
- 0904 Attempt 1, 32.2 ft., 19 cm, accept.
- 0916 At Location 176 - PW
- 0925 Attempt 1, 41.5 ft., 13 cm, accept
- 0948 Head to Location 175 - PW
- 0951 Attempt 1, 41.0 ft., 23 cm, accept
- 1025 At Location 173 - PW
- 1028 Attempt 1, 35.6 ft., 24.5 cm, accept.
- 1043 Head to Location 171 - PW
- 1048 Attempt 1, 40.5 ft., 18 cm, accept
- 1105 At Location 016
- 1107 Attempt 1, 13.9 ft., 6 cm, reject
- 1110 Attempt 2, 7 cm, reject
- 1114 Attempt 3, 14 cm, washed out b/c of rocks in jaws, reject. coarse material  
Move slightly off target ~ 4m, 17
- 1120 Attempt 4, asphalt in jaws, washed out, reject.
- 1123 Attempt 5, 15 cm, accept, 17.3 ft.
- 1140 Head to Harbor Island Marina

03.01.18

TDD

for lunch/bathroom break.

- 1145 At marina.
- 1210 Depart marina. Head to Location 172 - PW
- 1222 Attempt 1, 7.4 ft., 19 cm, accept
- 1238 Head to Location 23, target currently right up against end of barge. Can get as close as 2m w/ target.
- 1243 Attempt 1, 24 ft., 15 cm, accept
- 1305 Head to Location 170 (SMS) - PW
- 1310 Attempt 1, 15.4 ft., 19 cm, accept.
- 1325 Head to Location 174 (SMS) - PW
- 1332 Attempt 1, 2.0 ft., 3 cm, reject.
- 1334 Attempt 2, 11.5 cm, accept.
- 1410 Head to Outfall 2507
- 1419 Attempt 1, 6.8 ft., 23 cm, accept
- 1425 Discussion w/ Jake (USAEE) about Outfall 2510. Unable to access location b/c of road/bridge. Cannot get under in vessel to get w/in 50 ft. of target/outfall coral. Station abandoned.
- 1430 Checking Outfall 2509 to confirm

03.01.18

T.DD

that we can get w/ 50 ft. of outfall/target coord. Closest we could get is ~ 80 ft., right at shoreline/outfall channel intersection. Jake also observed site conditions and agreed we couldn't get close enough.

- 1445 Head to Outfall Fed CTS.
- 1456 Attempt 1, 13.2 ft. 8.5 cm, washed out, rejected
- 1459 Attempt 2, < 2 cm, rock in jaws washed everything out, reject.
- 1501 Attempt 3, rock in jaw, empty, rejected
- 1503 Move to alternate target,
- 1504 Attempt 4, 16.8 ft., rock in jaw, reject.
- 1506 Attempt 5, 11.5 cm, jaws agape from rock but will keep pending one more attempt for better quality sample. (~ 41 ft. from outfall coord)
- 1516 Attempt 6, ~ 40 ft from coord., 12 cm, accept. Will discard Attempt 5.
- 1530 Head back to marina.
- 1540 Arrive at marina. Offload samples, work on COLs.
- 1600 Depart marina. End of on-water day

~~T.DD~~  
03.01.18

03.02.18

T.DD

- 0700 Arrive at Harbor Island Marina.  
30's, cloudy  
Windward: Kate McPeel } RSS  
Jenna Rheuben }  
Nina Maas } Cayuse  
Ther Do. }  
Gravity: Ed Sloan } Cayuse  
Pete Jenkins }  
Clearways: Remy Matkocnet. - RSS  
Rachel Courfoel - Cayuse
- 0710 Load supplies / eqpt.
- 0720 RSS Arrives: Eric Parker  
Andrew
- 0730 Kristen Kerns (USACE - EPA oversight) arrives - Cayuse  
Debra Williston (City) - RSS
- 0735 Depart marina (Cayuse) & Health and Safety briefing. Head to collect samples at Glacier properties.
- 0747 At location 177 - PW
- 0749 Attempt 1, 12.7 ft. 25 cm, accept
- 0800 At location 072
- 0802 Attempt 1, 15.3 ft., 24 cm, accept.

*Rate in the Rain.*

03.02.18

TDD

- 0815 ~~At~~ Outfall Glacier NW-CBP
- 0826 Attempt 1, 20.4 ft., 25.5 cm, accept
- 0840 At Location B2. Target under barge. Cannot get w/in 50 ft. of coordinates. Skipping until we get alternate randomized coordinates.
- 0845 At Location B1
- 0849 Attempt 1, 24.8 ft., 20 cm, accept
- 0903 At Location B2 (alternate location)
- 0906 Attempt 1, 24.9 ft., 15 cm, washed out, reject for better quality sample
- 0910 Attempt 2, 17 cm, accept
- 0922 At Outfall Gen Biodiesel
- 0924 Attempt 1, 8.0 ft., rock in jaws, reject.
- 0927 Attempt 2, empty, reject.  
Instead of 3rd attempt at target coordinates - (rip rap), we're moving to location within 50 ft. radius of outfall coordinates. (consulted w/ Kristen Kerns, she agreed.)
- 0931 Attempt 3, 15.4 ft., rock, reject.

03.02.18

TDD

- 0932 Attempt 4, empty, reject.
- 0934 Attempt 5, rock in jaws, reject.
- 0935 Attempt 6, rock in jaws, reject.  
Outfall abandoned after the 4 additional attempts.
- 0950 At Location 041 - must hand collect.  
Location on sand bar (7 satellites)  
GPS. Coord. -122.34834 47.55864
- 0955 Collect sample to 10 cm depth.
- 1005 At Outfall 2003
- 1010 Attempt 1, 6.5 ft., empty, reject.  
(target is upland, so moved to in water, below outfall, ~40 ft. from outfall., Kristen agreed.)
- 1012 Attempt 2, empty, reject.
- 1013 Attempt 3, rock in jaws, reject,  
~50 ft. from outfall.
- 1014 Attempt 4, rock in jaws, reject.
- 1015 Attempt 5, rock in jaws, reject.
- 1019 Attempt 6, washed out gravel, reject  
Outfall 2003 abandoned.
- 1030 Got okay from EPA (via Susie) to collect alternate locations at 103, 107 and outfall 2519

03.02.18

TID0

- 1015 Head up river to check to see if Delta Marina OF is accessible during lower tide than other day (02.28).
- 1110 Unable to get under dock lines. Kristen agrees - too low.
- 1115 Head to location 187 (new target) to resample - PW (SMS)
- 1124 Attempt 1, 4.2 ft., 9 cm, reject.
- 1126 Attempt 2, 8 cm, (and washed out), reject
- 1129 Attempt 3, < 8 cm, washed out, reject.
- 1131 Attempt 4, 11 cm, accept.
- 1150 Lunch break at S. Park Marina
- 1210 Head to <sup>new</sup> location 183 (SMS) PW
- 1224 Attempt #1, 19.2 ft., 28 cm, accept
- 1230 Head to new 2509 location, outfall
- 1235 New location still inaccessible, cannot access within 50 ft. Kristen agrees it's too far "up" land.
- 1250 Head to location 062.
- 1255 location 062 underneath barge.
- 1259 Head to location 061
- 1301 Attempt 1, 26.0 ft., 18 cm, accept
- 1308 Head to location 49 (alt 1), location

03.02.18

TID0

- inaccessible, barge in way.
- 1314 (at alt. 2)
- 1316 Attempt 1, 26.3 ft., 16 cm, accept
- 1333 Head to location 060
- 1336 Attempt 1, 37.9 ft., 28.5 cm, accept
- 1350 Head to location 059
- 1352 Attempt 1, 38.9 ft., 12 cm, accept
- 1405 Head to location 062 (alt 1) ~~to~~
- 1410 Attempt 1, 37.9 ft., 29 cm, accept (original location, barge moved)
- 1424 Head to location 063
- 1426 Attempt 1, 25.1 ft., 16 cm, accept
- 1440 Head to outfall 2509. Will collect the best sample we can get as close to outfall/target coordinates as possible, per conversation w/ Susie.
- 1450 At Outfall 2509 ~ 22 ft from target coord.
- 1453 Attempt 1, 3.4 ft., 8 cm, reject.
- 1455 Attempt 2, 11 cm but washed out, reject
- 1457 Attempt 3, rock in jaws, reject.
- 1500 Attempt 4, 10 cm, will set aside
- 1507 Attempt 5, 7 cm, reject (further from target)  
Rite in the Rain.

03.02.18

TDD

- 1509 Attempt 4, 13 cm, accept ~ 25 ft. off.  
 1520 Head down river to location 52 (SWS)  
 1532 Attempt 1, 20.7 ft, 27 cm, accept  
 (alternate random location)  
 1545 Head back to marina.  
 1555 Arrive at marina. Offload supplies/  
~~0555~~ samples; work on COCs  
 1645 Depart marina. End of on-water  
 day

TDD  
 03.02.18

03.08.18

TDD

- 0800 Arrive at 1<sup>st</sup> Ave S. ramp  
 S. Replinger, T. Do.  
 Meet up w/ Gravity.  
 E. Sloan, G. Purvill  
 Weather, 40's, light rain.  
 0805 Head up to location 139 to  
 re-sample. Health & Safety  
 briefing.  
 0840 At location 139  
 0846 Attempt 1, 14.0 ft, 29 cm, accept.  
 0858 Head up to Delta Marine Outfall  
 to see if we can access  
 0905 At Delta Marine outfall  
 0907 Attempt 1, 11.2 ft, 29.5 cm, accept  
 0920 Head to outfall 2114.  
 0925 Site still blocked. Sampling  
 complete. Head back to boat  
 ramp. End of sed. sampling  
 0945 Arrive boat ramp.

TDD  
 03.08.18

K. McPeck  
2/22/18

## 2/22/18 AOC3 surface sediment sampling

Day 1

0730 Arrive Harbor Island Marina

Crew:	Thai Do	} Windward
	Kate McPeck	
	Remi Mathonnet	} Clearways
	Eric Parker	
	Andrew Muth	} Research Support Services
	Kristen Kerns	
		- USACE

Weather: 30°F, sunny

0745 Load boat and prep for sampling

0800 Health and safety briefing: boat safety, sediment exposure

Tides: High: 0900 11.5'  
Low: 1552 1.3'

0820 Decon sampler and equipment

0830 Depart Harbor Island Marina for SS-01

0840 Collect grab 1 @ SS001; washed-out - unsuccessful; water depth: 41.5'

0845 Collect grab 2 @ SS-01<sup>0845</sup>; washed-out and cobbles in jaws; water depth: 41.5ft

0849 Collect grab 3 @ SS001; washed-out and cobbles in jaws; water depth: 39.4'

0858 move within 10m and collect grab 4, @ SS001 depth: 44.4'; rock in jaws

K. McPeck  
2/22/18

0901 collect grab 5 @ SS001, depth: 45.4'; washed-out

0905 collect grab 6 @ SS001, depth: 44.3', successful, penetration depth: 16cm

0921 collect grab 1 @ SS002, depth: 26.6', successful, penetration depth: 23cm

0937 Arrive SS-003, location under sailboat - moved ~20ft from target  
water depth: 31.7ft0939 collect SS-003 grab 1, <sup>water</sup> depth: 31.7ft  
penetration depth: 20cm, successful0952 collect SS-004 grab 1, water depth: 43.3ft  
penetration depth: 25cm, successful1005 collect SS-008 grab 1, water depth: 51.1ft  
unsuccessful: rock in jaws1009 collect SS-008 grab 2, water depth: 51.1ft  
unsuccessful: washed out1012 collect SS-008 grab 3, water depth: 50.8ft  
unsuccessful: washed out1023 move within 10m and collect grab 4 @ SS-008, water depth: 53.2ft  
unsuccessful: washed out

K. McPeak  
2/22/18

- 1029 collect SS-008 grab 5, water depth: 50ft  
successful, penetration depth: 16 cm
- 1043 collect SS-007 grab 1, water depth: 49.7ft  
successful, penetration depth: 26 cm
- 1056 collect SS-006 grab 1, water depth: 46.7ft  
successful, penetration depth: 26 cm
- 1108 check access @ SS-016: OK  
check access @ SS-019: obstructed by barge
- 1111 call S. McGrady to discuss barge @  
SS-019. she will contact General  
Recycling; ~~and~~ <sup>km</sup> decided to move to  
composite 5 locations for next  
round of sampling
- 1116 collect SS-025 <sup>grab 1</sup>, water depth: 26.4ft  
successful, penetration depth: 25 cm
- 1125 collect SS-026 grab 1, water depth: 40.3ft  
unsuccessful; insufficient penetration
- 1129 <sup>429 km</sup> collect SS-026 grab 2, water depth: 40.3ft  
unsuccessful; winnowed
- 1132 collect SS-026, grab 3, water depth: 40.3ft  
successful, penetration depth: 15 cm
- 1144 collect SS-027, grab 1, water depth: 42.8ft  
successful, penetration depth: 23 cm
- 1155 return to Harbor Island Marina for lunch  
break

K. McPeak  
2/22/18<sup>5</sup>

- 1220 Depart Marina for SS-032
- 1230 collect SS-032 grab 1, water depth: 17.1ft  
successful, penetration depth: 29 cm
- 1240 collect SS-033 grab 1, water depth: 42.9ft  
successful, penetration depth: 17 cm
- 1250 collect SS-034 grab 1, water depth: 32.9ft  
successful, penetration depth: 22 cm
- 1258 collect SS-035, grab 1, water depth: 37.2ft  
successful, penetration depth: 25 cm
- 1308 collect SS-036 grab 1, water depth: 31.1ft  
successful, penetration depth: 27 cm
- 1320 collect SS-037 grab 1, water depth: 3.7ft  
<sup>+320 km</sup> very shallow - adjacent Kellogg Island  
successful, penetration depth: 24 cm
- 1335 <sup>km</sup> collect SS-038 grab 1, water depth: 12'-  
too shallow to sample - not collected
- 1342 collect SS-042 grab 1, water depth: 18.5ft  
collected - 18ft from target - barge  
in way  
successful, penetration depth: 26 cm
- 1351 collect SS-043 grab 1, water depth: 23.3ft  
successful, penetration depth: 22 cm
- 1400 checked SS-052: not accessible due to  
barges; could sample ~16 m south  
of target

K. McPeak  
2/22/18

- 1402 called S. McGrady; decision to hold off on sampling SS-052 until receive approval to sample accessible area nearby
- 1410 collect SS-051 grab 1, water depth: 12.8 ft successful, penetration depth: 30 cm
- 1427 collect SS-064 grab 1, water depth: 35.0 ft unsuccessful; washed out
- 1431 collect SS-064 grab 2, water depth: 35.0 ft successful, penetration depth: 21 cm
- 1441 collect SS-069 grab 1, water depth: 32.0 ft successful, penetration depth: 30 cm collected field duplicate: SS-069 FD
- 1500 checked SS-070: not accessible due to barges; could sample ~34.5 m west of target, did not sample
- 1502 sent S. McGrady text message re: SS-070.
- 1510 return to Harbor Island Marina, unload
- 1525 off-water

Km  
2/22/18

K. McPeak  
2/23/182/23/18 AOC3 surface sediment sampling  
Day 2

0720 Arrive Harbor Island marina, meet crew

Crew: Jenna Rheuben } Windward  
Kate McPeak }  
Remi Mathonnnett - Clearways  
Eric Parker } Research Support  
Andrew Muth } Services

Weather: 28°F, partly sunnyTides: High: 0946 11.2'  
Low: 1653 0.7'

0740 Load boat

0800 health + safety briefing

0810 depart Harbor Island Marina, decom  
sampling equipment0821 collect SS-038 grab 1, water depth: 8.2 ft  
successful, penetration depth: 25 cm0854 collect SS-065 grab 1, water depth: 34.4 ft  
successful, penetration depth: 26 cm0905 check access to SS-066: barge blocking  
target - 28.3 m off location;  
E. Parker contacted barge - will depart  
later today; try sampling next week0920 collect SS-067 grab 1, water depth: 40.9 ft  
successful, penetration depth: 23 cm

Note in the Rain.



K. McPeck  
2/23/18

- 0936 collect SS-068 grab 1, water depth: 32.5 ft  
successful, penetration depth: 26 cm
- 0956 collect SS-106 grab 1, water depth: 26.6 ft  
successful, penetration depth: 24 cm
- 1010 check access @ SS-107: barge blocking -  
~7 m from target  
called S. McGrody to confirm OK to sample
- 1018 collect SS-107 grab 1, water depth: 14.5 ft  
successful, penetration depth: 25 cm
- 1028 head to South Park Marina for bathroom break
- 1054 collect SS-108 grab 1, water depth: 25.8 ft  
successful, penetration depth: 29 cm
- 1104 collect SS-109, grab 1, water depth: 27.9 ft  
successful, penetration depth: 22 cm
- 1114 collect SS-110, grab 1, water depth: 12.1 ft  
successful, penetration depth: 29 cm
- 1120 collect SS-111, grab 1, water depth: 9.3 ft  
successful, penetration depth: 27 cm
- 1128 collect SS-112 grab 1, water depth: 11.9 ft  
successful, penetration depth: 23 cm
- 1139 collect SS-114 grab 1, water depth: 15.4 ft  
successful, penetration depth: 26 cm
- 1148 collect SS-113 grab 1, water depth: 14.3 ft  
not successful - over-penetrated 14.0
- 1153 collect SS-113 grab 2, water depth: 14.0 ft  
successful, penetration depth: 27 cm

K. McPeck  
2/23/18 9

- 1208 collect SS-115 grab 1, water depth: 23.6 ft  
successful, penetration depth: 27 cm
- 1215 check access @ SS-116, blocked by barge -  
~30 m off target  
notified S. McGrody, will wait to sample
- 1223 collect SS-117 grab 1, water depth: 5.9 ft  
unsuccessful - washed out, cobbles in jaw
- 1226 collect SS-117 grab 2, water depth: 5.9 ft  
unsuccessful - washed out, cobbles in jaw
- 1228 collect SS-117 grab 3, water depth: 5.9 ft  
unsuccessful - washed out, cobbles in jaw  
target location heavily cobbled, moved  
<10 m off target (~5 m out)
- 1232 collect SS-117 grab 4, water depth: 12.5 ft  
successful, penetration depth: 20 cm
- 1245 lunch break
- 1312 collect SS-118 grab 1, water depth: 13.5 ft  
successful, penetration depth: 22 cm
- 1321 collect SS-119 grab 1, water depth: 6.6 ft  
successful, penetration depth: 22 cm
- 1327 collect SS-120 grab 1, water depth: 5.9 ft  
successful, penetration depth: 25 cm
- 1340 collect SS-121 grab 1, water depth: 1.9 ft  
successful, penetration depth: 27 cm

K. McPeck  
2/23/18

- 1350 collect SS-122 grab 1, water depth: 22.2 ft  
successful, penetration depth: 25 cm  
KM ~~collect SS-123 grab 1, water depth:~~
- 1400 check access @ SS-123 - need to wait  
for higher tide; not sampled
- 1405 collect SS-124 grab 1, water depth: 16.0 ft  
successful, penetration depth: 25 cm
- 1414 collect SS-125 grab 1, water depth: 5.0 ft  
successful, penetration depth: 24 cm
- 1433 collect SS-126 grab 1, water depth: 13.9 ft  
successful, penetration depth: 25 cm
- 1446 head back to Harbor Island Marina
- 1510 Arrive Harbor Island Marina, unload  
boat
- 1530 off-water

KM  
2/23/18

~~2/23/18~~

TDO

- 0715 Arrive at Harbor Island Marina.  
T. Do, N. Maas
- 0720 Meet up w/ Gravity; E. Sloan, P. Jenkins  
load up supplies/eqpt.
- 0730 Kristen Kerns (USACE) arrives ~~TDO~~  
& Rachel Courfor (Clemson) arrives  
Health & Safety briefing
- 0740 Head out to Location 5
- 0750 Attempt 1, 41' 8" (41.7), 18.5 cm, accept
- 0800 Head to Location 9
- 0809 Attempt 1, 26.1 ft, 22 cm, accept
- 0822 Head to Location 15 TDO
- 0825 Attempt 1, 23.2 ft, 20 cm, accept
- 0840 Head to Location 10
- 0845 Attempt 1, 57.6 ft, rocks in jaws, reject.
- 0850 Attempt 2, debris in jaws, washed out, reject.
- 0856 Attempt 3, 16 cm, accept
- 0905 Head to Location 14
- 0913 Attempt 1, 49.0 ft, 19 cm, accept
- 0930 Head to Location 39
- 0941 Attempt 1, 9.7 ft, 22 cm, accept
- 0952 Head to Location 40, SMS sample
- 0956 Attempt 1, 9.6 ft, 17 cm, accept
- 1012 Head to Location 45

02.24.15

T.D.O.

- 1015 Attempt 1, 9.7 ft, 16 cm, accept  
 1024 Head to location 46  
 1028 Attempt 1, 9.9 ft, 16 cm, accept  
 1040 Head to location 47  
 1045 Attempt 1, 9.7 ft, 12 cm, accept  
 1055 Head to location 48  
 1101 Attempt 1, 15.9 ft, 13 cm, most washed out/sloped, reject.  
 1115 Attempt 2, 18 cm, accept.  
 1115 Location 41 inaccessible, on land during current conditions. Would be difficult even during high tide.  
 1117 Head to location 49 to scout/coon accessibility.  
 1118 Location 49 under barge. Checking location 52 to check accessibility.  
 1122 Location 52 still underneath barge.  
 1123 Location 50 also inaccessible b/c of barge.  
 1125 Head to location 11  
 1133 Attempt 1, 49.8 ft, 20 cm, accept.  
 1145 Head to location 12  
 1150 Attempt 1, 26.5 ft, 17 cm, accept.  
 1155 Break to re-fuel vessel.

02.26.15

T.D.O.

- 1300 Head back to LAD to continue sampling.  
 1345 Arrive at location 123  
 1348 Attempt 1, 8.4 ft, 17 cm, washed out from slightly open jaws b/c of coarse material, rejected. (fines washed out)  
 1355 Attempt 2, 17 cm, accept  
 1407 Head to location 127  
 1414 Attempt 1, 26.6 ft, 20 cm, accept  
 1422 Head to location 128  
 1426 Attempt 1, 22.4 ft, 24 cm, accept  
 1433 Head to location 129  
 1439 Attempt 1, 28.2 ft, 25 cm, accept  
 1446 Head to location 130  
 1458 Location too narrow for vessel to access. Cannot get w/in 10 m of target.  
 1500 Location 131  
 1504 Attempt 1, 17.6 ft, 21 cm, accept  
 1513 Head to location B2  
 1517 Attempt 1, 17.9 ft, overpenetration, reject  
 1520 Attempt 2, OP, reject.  
 1525 Attempt 3, 16 cm, accept  
 1530 Head to location 133

02.26.18

T.D.D

- 1539 Attempt 1, 9.0 ft., 19 cm, accept.  
 1545 Head back to marina.  
 1610 Arrive at marina. Offload samples  
 1630 Depart for lab. End of on-water day.

~~02.26.18~~  
 T.D.D

02.27.18

T.D.D

- 0700 Arrive at Harbor Island Marina  
 N. Maas & T.D.D (Windward)  
 Meet w/ Gravity:  
 E. Sloan & Pete Jenkins (clearly 40s wind.)  
 0705 Load supplies, prep for day  
 0730 Nate Malmborg (USACE-EPA Oversight) arrives.  
 0745 Remy Mathonnet (Clearways) arrives. Depart marina to recon locations in Slip 3  
 0750 Health and Safety briefing, in transit.  
 0810 In Slip 3. Location 94 completely blocked by a barge. Location 93 also blocked by concrete bridge. Can get to w/in ~ 5m of target. Consulted w/ Nate and he agreed we could sample here.  
 0825 Attempt 1, 19.8 ft., 24 cm, accepted.  
 0840 At Seattle Dist Ctr (outfall)  
 0843 Attempt 1, 9.9 ft., 9 cm, set aside.  
 0855 Attempt 2, 25 cm, accept.  
 0915 Head to Location 145  
 can only get w/in ~ 12 ft. of target b/c of moored vessels in marina

02.27.18

T.D.O.

0950 Attempt 1, 10ft., overpenetrated, reject.  
(Consulted w/Nate, he agreed this location was reasonable given access limitations)

0952 Attempt 2, 21 cm, accept.

1005 Head to Location 149

1011 Attempt 1, 22.1 ft., 20 cm, accepted

1022 Head to Location 150

1024 Attempt 1, 9.1 ft., overpenetrated, reject.

1027 Attempt 2, 17 cm, accepted

1030 Recon Locations 146 & 147.

Location 147 is under barges (3 tied up side-by-side).

Location 146 is just up against a barge (tied up against 2 other barges). Maybe able to get, w/in a few meters.

1037 Head to Location 151

1043 Attempt 1, 23.1 ft., 15 cm, accept.

1054 Head to Location 152

1057 Attempt 1, 15.9 ft., overpenetrate, reject.

1100 Attempt 2, 24.5 cm, accept.

1107 Head to Location 154

1110 Attempt 1, 8.1 ft., 18 cm, accept

02.27.18

T.D.O.

1121 Head to Location 153

1124 Attempt 1, 13.9 ft., 17.5 cm, accept.

1145 Head to Location 159

1152 Attempt 1, 24.4 ft., 18.5 cm, accept

1206 Head to Location 160

1210 Attempt 1, 6.7 ft., 19 cm, accept.

1220 Head to Location 158

1223 Attempt 1, 23.9 ft., overpenetrate, reject.

1226 Attempt 2, debris in jaws, reject.

1231 Attempt 3, 16 cm, accept

1241 Head to Location 157

1245 Attempt 1, 17.8 ft., 14.5 cm, accept

1256 Head to Location 156

1258 Attempt 1, 8.8 ft., 6 cm, reject.

1300 Attempt 2, 17 cm, accept.

1308 Head to Location 161 (SUS location)

1311 Attempt 1, 5.9 ft., 16 cm, accept.

1320 Head to Location 162

1325 Attempt 1, 4.5 ft., <10 cm, rejected

1328 Attempt 2, 9 cm, rejected.

1332 Attempt 3, 8 cm, rejected

unable to collect sediment from target.  
Too hard-packed. Moved off target  
~ 25ft., Nate (USACE) okayed.

02.27.18

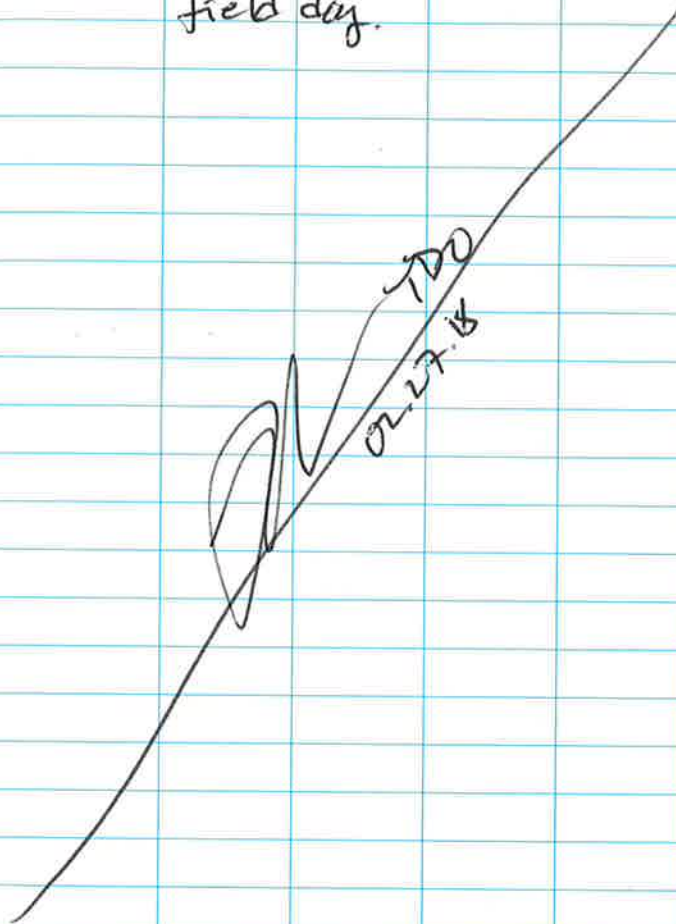
TDO

- 1342 Attempt 4, 5.3 ft, 11 cm, accept.  
 1350 Head to Location 163  
 1355 Attempt 1, 11.1 ft, 20 cm, accept  
 1403 Head to Location 165  
 1405 Attempt 1, 17.5 ft, 20 cm, reject b/c  
 of coarse materials, washed out with  
 jaws slightly agape.  
 1408 Attempt 2, 20 cm, reject - same as  
 before.  
 1413 Attempt 3, empty, washed out.  
 Move slightly off location ~ 15 ft,  
 1416 Attempt 4, 16.1 ft, rock in jaws, washed  
 out, reject.  
 1420 Attempt 5, 3 cm, reject.  
 1424 Attempt 6, 2 cm, reject. Station  
 aborted for relocation  
 1428 Head to Location 164  
 1430 Attempt 1, 16.8 ft, wood in jaws,  
 washed out, reject.  
 1433 Attempt 2, 20 cm, accept.  
 1440 Head to Location 155  
 1445 Attempt 1, 18.9 ft, 21 cm, accept  
 1455 Head back to marina. Take  
 photos of some barge-blocked

02.27.18

TDO

- locations along the way.  
 1535 Arrive at marina. Begin to offload  
 samples/supplies.  
 1545 Depart marina - End of on-water  
 field day.



2/28/18

K. McPeck  
2/28/18

- 0705 Arrive Harbor Island Marina, prep + load  
J. Rheuben } Windward Supplies  
K. McPeck }
- 0730 meet boat crew: and Remy Mathonnet (Charways)  
Eric Parker } Research Support  
Andrew Muth } Services
- 0730 meet USACE (EPA oversight):  
Nate Malmborg
- 0745 H+S briefing  
Weather: 42°F, cloudy  
Tides: Low: 5.7' @ 0950  
High: 11.1' @ 1500
- 0800 Depart Harbor Island Marina for SS-134,  
recon sampling equipment in route
- 0830 Arrive SS-134
- 0833 Collect SS-134 grab 1, water depth: 10.5 ft  
penetration depth: 26 cm  
accept
- 0843 Collect SS-134 grab 1, 10.6 ft, 27 cm  
accept
- 0852 collect SS-136 grab 1, 14.9 ft, 26 cm  
accept
- 0858 head to upper basin to recon SS-166  
to SS-168 - accessible under bridge  
only during low tide

K. McPeck  
2/28/18

- 0905 Arrive upper basin, prep boat to  
go under bridge to access SS-  
166, 167, 168
- 0916 Arrive SS-166
- 0920 Collect SS-166, 8.4 ft,  
grab 1 not acceptable - washed out
- 0922 collect SS-166 grab 2, 8.4 ft, 29 cm  
accept
- 0930 collect SS-167 grab 1, 9.5 ft, 28 cm  
accept
- 0938 collect SS-168 grab 1, 12.4 ft  
not acceptable - washed out
- 0940 collect SS-168 grab 2, 12.4 ft, 25 cm  
accept
- 0952 arrive SS-165: location attempted  
yesterday
- 0958 collect SS-165 grab 1 @ ~6 ft off  
target to avoid previous sampling  
locations, 11.0 ft, 28 cm  
accept
- 1015 collect SS-140 grab 1, 18.1 ft, 26 cm  
~~not acceptable - washed out, branch~~  
in jaws KM branch in jaws but not  
washed out - acceptable  
accept  
no winnowing, no loss of  
fines *Note in the Rain*

K. McPeak  
22 2/28/18

- 1025 collect SS-139 grab 1, 6.6 ft, 24 cm  
accept
- 1034 collect SS-138 grab 1, 18.5 ft, 29 cm  
accept
- 1042 collect SS-137 grab 1, 18.4 ft, 25 cm  
accept
- 1050 head to South Park Marina for rest  
stop
- 1105 head to SS-105
- 1115 ~~collect SS-105 grab 1, km SS-105~~  
temporarily blocked by barge,  
head to SS-104
- 1118 collect SS-104 grab 1, 26.0 ft,  
not accepted: over penetrated
- 1122 collect SS-104 grab 2, 26.0 ft, 23 cm  
accept
- 1133 collect SS-105 grab 1: ~3.6 m off  
target due to barges  
22.4 ft, 26 cm  
accept
- 1141 check access @ SS-103: blocked by  
barge ("B/G Mayd"), ~36.5 m off  
target; not sampled. Sent photo to  
S. McGroady

K. McPeak 2/28/18

K. McPeak  
23 2/28/18

- 1151 collect SS-102 grab 1, 12.7 ft,  
not accepted: over penetrated
- 1153 collect SS-102 grab 2, 12.9 ft, 29 cm  
accept
- 1204  
~~1204 km~~ collect SS-101 grab 1, 28.2 ft, 25 cm  
accept (SMS loc.)
- 1237 collect SS-100 grab 1, 18.3 ft, 26 cm  
accept
- 1246 check access @ SS-099: blocked by  
barge, closest available location  
"Pacific Trader" to sample is ~16.5 m off target;  
not sampled. Sent photo to S. McGroady
- 1251 collect SS-098 grab 1, 7.4 ft, 28 cm  
accept
- 1301 check access @ SS-096: blocked by  
"Kenai Trader" barge by ~26 m off target;  
not sampled. Sent photo to S. McGroady
- 1306 collect SS-092 grab 1, 35.6 ft, 25 cm  
accept
- 1320 collect SS-091 grab 1, 8.6 ft, 22 cm  
accept (SMS loc.)
- 1337 collect SS-089 grab 1, 23.0 ft, 25 cm  
accept
- 1348 collect SS-087 grab 1, 24.7 ft, 28 cm  
accept

Rite in the Rain.



K. McPeck  
2/28/18

- 1358 Collect SS-085 grab 1, 35.3 ft, 29 cm  
accept
- 1415 Meet Gravity boat to exchange supplies
- 1422 check access @ SS-097: blocked by  
barge - 26 m from target; not  
sampled. Sent photo to S. McGrady
- 1429 collect SS-095 grab 1, 28.0 ft, 25 cm  
(1429) accept
- 1441 check access @ SS-090: under 1st Ave  
S. bridge, can sample w/in 10 m  
but not exactly on target due to  
pilings (N. abutment of east span)
- 1442 collect SS-090 grab 1, 35.0 ft, 23 cm  
accept, - 8 m off target
- 1453 head back to Harbor Island Marina
- 1554 km 1504 arrive Harbor Island Marina,  
unload, fill out COCs
- 1515 off-water

~~Lab work~~

2/28/18

K. McPeck  
3/1/18 25

3/1/18

- 0715 Arrive Harbor Island Marina, unload  
J. Rhasben } Windward  
K. McPeck }  
0730 Meet RSS + Clearway (R. Mathonnet)  
Eric Parker } Research Support  
Andrew Muth } Services  
0730 Meet Joanna Flores (Port of Seattle)
- 0745 health + safety briefing  
Weather: 48°, sunny  
Tides: Low: 1035 - 4.8 ft  
High: 1556 - 11.2 ft
- 0755 Depart Harbor Island Marina for SS-094
- 0812 Arrive SS-094; still blocked by barge
- 0819 proceed to re-randomized location 1 -  
also blocked by barge (SS-094)
- 0820 proceed to re-randomized location 2  
for SS-094
- 0822 collect SS-094 grab 1 @ re-randomized loc.  
water depth: 20.0 ft, penetration depth: 28 cm<sup>2</sup>  
accept
- 0839 Arrive SS-116; still blocked by barge
- 0840 proceed to re-randomized loc. 1 for SS-116 -  
also blocked (by same barge)
- 0841 proceed to re-randomized loc. 2 for SS-116

K. McPeck  
3/1/18

- 0842 collect SS-116 grab 1 re-randomized  
loc. 2, water depth: 24.2 ft  
penetration depth: 26 cm  
accept
- 0856 Arrive SS-130 - scope access in South  
Park Marina, where target coordinates  
are located; can sample within 10m  
of target
- 0909 collect SS-130 grab 1 @ target location  
w/in 10 m (in South Park Marina)  
~3.5 m off target  
9.1 ft; not accepted - over-penetrated
- 0913 collect SS-130 grab 2 ~ 3.5 m off target  
9.1 ft, 28 cm  
accept but need to resample for  
extra SMS volume
- 0928 collect SS-130 grab 3 ~ 3.5 m off target  
8.8 ft, 25 cm  
accept
- 0957 check access @ SS-141 - blocked by  
barges; not sampled. Sent photo  
to S. McGroody
- 1000 collect SS-142 grab 1, 2.8 ft, 23 cm  
accept

K. McPeck  
3/1/18 27

- 1008 collect SS-143 grab 1, <sup>km</sup> 10.8 ft, 28 cm  
accept (SMS location)
- 1019 check access @ SS-144 - blocked by  
barge but can sample ~ 4 m from  
target
- 1023 collect SS-144 grab 1, 12.1 ft, 24 cm  
~4 m from target, accept
- 1032 collect SS-148 grab 1, 7.3 ft, 27 cm  
accept
- 1039 check access @ SS-147 - blocked by  
barge, not sampled
- 1041 check access @ SS-146 - blocked by  
barge but can sample w/in 10 m
- 1042 collect SS-146 grab 1, 14.0 ft, 27 cm  
accept, sampled w/in 10 m  
of target
- 1056 re-check access @ SS-147, can  
sample w/in 10 m from two back  
of barges
- 1058 collect SS-147 grab 1, 12.6 ft,  
not accepted - over-penetrated
- 1107 collect SS-147 grab 2, 12.7 ft, 26 cm  
accept, sampled w/in 10 m of target
- 1112 boat maintenance

- 1123 head to S. Park Marine for rest break  
 1145 head back to SS-141 to sample re-randomized location  
 1155 collect SS-141 grab 1 @ re-randomized location 1, 12.8 ft, 25 cm accept  
 1215 arrive SS-103, target still blocked by barge, proceed to re-randomized loc. 1 - blocked by same barge  
 1217 proceed to re-randomized loc. 2; accessible  
 1218 collect SS-103 grab 1 @ re-randomized loc. 2, 17.1 ft, 26 cm, accept  
 1228 arrive SS-099, target still blocked by barge, proceed to re-randomized loc. 1  
 1230 collect SS-099 grab 1 @ re-randomized loc. 1, 25.5 ft, 26 cm, accept  
 1239 arrive SS-097, target still blocked by barges, proceed to re-randomized loc. 1  
 1241 collect SS-097 grab 1 @ re-randomized loc. 1, 30.6 ft, 23 cm, accept  
 1250 arrive SS-096, target still blocked by barge, proceed to re-randomized loc. 1

- 1253 collect SS-096 grab 1 @ re-randomized loc. 1, 18.4 ft, 26 cm, accept  
 1303 check access @ SS-088, target is under boat house in small marina, can sample w/in 10 m <sup>↳ Duwamish Marine Center</sup>  
 1305 collect SS-088 grab 1 w/in 10 m of target, 18.9 ft, 25 cm, accept  
 1314 check access @ SS-086, blocked by barge but can sample w/in 10 m  
 1316 collect SS-086 grab 1 w/in 10 m of target, 23.0 ft, 27 cm <sup>↳ 7.2 m</sup> accept  
 1328 check access @ SS-070; still blocked by barges, proceed to re-randomized loc. 1 - also under barge  
 1330 proceed to re-randomized loc. 2 blocked by barge; <sup>not</sup> possible to sample w/in 10 m  
 1335 head to re-randomized loc. 3  
 1340 collect SS-070 grab 1 @ re-randomized loc. 3, 44.4 ft, 22 cm, accept  
 1350 check access @ SS-066; still blocked by barge. Proceed to re-randomized loc. 1; also located under barge

K. McPeck  
3/1/18

- 1353 proceed to re-randomized loc. 2
- 1356 collect SS-066<sup>grab 1</sup> @ re-randomized loc. 2  
38.0 ft, 23 cm, accept  
collected - 7.3 m off target
- 1407 meet Gravity boat to pass off  
Samples collected by other boat:  
SS-016, SS-023, SS-050;  
labeled jars
- 1416 collect SS-031 grab 1, 15.6 ft,  
29 cm, accept
- 1435 collect SS-030 grab 1, 13.7<sup>5</sup> ft, 20 cm,  
accept
- 1442 collect SS-029 grab 1, 21.8 ft, 14 cm,  
accept
- 1454 collect SS-028 grab 1, 38.2 ft, 27 cm,  
accept
- 1500 head back to Harbor Island Marina
- 1506 Arrive Harbor Island Marina,  
off load
- 1515 off water

~~Kate McPeck 3/1/18~~

K. McPeck  
3/2/18

3/2/18

- 0700 Arrive Harbor Island Marina, unload cars  
J. Rheuben } Windward  
K. McPeck }
- 0715 Meet Clewway: Remi Mathonnett
- 0730 meet RSS: E. Parker and A. Muth  
load boat  
meet Debra Williston (King County)
- Weather: 40°F, cloudy
- Tides: Low: 3.9' @ 1119  
High: 11.2' @ 1650
- 0740 health and safety briefing
- 0747 depart Harbor Island Marina
- 0802 Arrive SS-083
- 0805 collect SS-083 grab 1, 8.2 ft,  
not accepted: insufficient penetration
- 0810 collect SS-083 grab 2, 8.2 ft,  
not accepted: insufficient penetration,  
add weights to grab sampler
- 0818 collect SS-083 grab 3, 8.2 ft,  
insufficient penetration - not accepted
- 0822 collect SS-083 grab 4 w/in 10 m, 9.4 ft  
insufficient penetration + washed out -  
not accepted
- 0825 collect SS-083 grab 5 w/in 10 m, 8.7 ft,  
acceptable grab but lots of gravel and 14cm  
Some cobbles; keep bowl of sample and →

K. McPeak  
3/2/18

- 0825 try again. Call S. McGrady; 2 more attempts
- 0833 Collect SS-083 grab 6 w/in 10 m, 13.4 ft  
partial washout but acceptable to use <sup>19.2 cm</sup>  
non-washed out portion of grab. Keep  
bowl of sample and try again.
- 0842 Collect SS-083 grab 7 w/in 10 m., 12.9 ft  
not accepted - washed out  
homogenize/process grab 6
- 0845 call S. McGrady: agree to keep grab 6  
and will discuss if new coordinates are  
needed
- 0856 check access @ SS-084: barge work  
in area, will return later  
check access @ SS-080: accessible
- 0900 collect SS-080 grab 1, 28.5 ft, 27 cm,  
accept
- 0911 collect SS-078 grab 1, 19.9 ft, 25 cm  
accept
- 0923 check access @ SS-079: blocked by  
barge ~55 m from target;  
not sampled. Sent photo to S. McGrady
- 0926 collect SS-084 grab 1, 30.4 ft, 27 cm  
accept
- 0937 collect SS-077 grab 1, 36.1 ft, 28 cm,  
accept

K. McPeak  
3/2/18

- 0951 collect SS-075 grab 1, 36.0 ft, 27 cm  
accept
- 1001 collect SS-076 grab 1, <sup>17.7 cm</sup> 14.8 ft, 25 cm, <sup>accept</sup>
- 1010 check access @ SS-074: accessible
- 1014 collect SS-074 grab 1, 7.6 ft, 23 cm  
accept
- 1023 collect SS-073 grab 1, 38.9 ft,  
not accepted: over-penetrated
- 1029 collect SS-073 grab 2, 38.6 ft, 28 cm  
accept
- 1041 collect SS-071 grab 1, 27.1 ft,  
not accepted - washed out
- 1044 collect SS-071 grab 2, 26.3 ft, 14 cm  
accept, location is sloped
- 1055 Received re-randomized locations for  
079 and 083
- 1059 Arrive <sup>SS</sup> 083
- 1101 Collect <sup>SS</sup> 083 grab 8 @ re-randomized  
loc. 1, 25.2 ft, 29 cm, accept
- 1107 dispose of previously collected  
sample for SS-083 (grab 6) per  
S. McGrady; disposed of on-location  
(where collected)
- 1118 collect SS-079 @ re-randomized loc. 1,  
32.8 ft, <sup>24 cm</sup> 24 cm, accept  
25

- 1129 Head to Harbor Island Marina for rest stop
- 1212 Arrive SS-013
- 1214 Collect SS-013 grab 1, 37.3 ft, 26 cm  
accept
- 1225 Collect SS-017 grab 1, 47.1 ft, 26 cm  
accept. Cable caught in jaws but  
grab is acceptable (and not washed out)
- 1239 Collect SS-018 grab 1, 23.7 ft, 22 cm  
accept
- 1249 Collect SS-020 grab 1, 27.3 ft, 21 cm  
accept
- 1257 check access @ SS-019: still blocked  
by barge. Proceed to re-randomized  
loc. 1 - blocked by same barge but  
can sample w/in 10 m
- 1301 collect SS-019<sup>grab 1</sup> w/in 10 m of re-  
randomized loc. 1, 44.1 ft, 27 cm,  
accept
- 1311 collect SS-021 grab 1, 45.6 ft, 25 cm,  
accept
- 1321 collect SS-022 grab 1, 42.0 ft, 13 cm,  
accept
- 1333 collect SS-024 grab 1, 37.8 ft, 27 cm,  
accept

- 1350 check access @ SS-056: not accessible -  
located under pier; not sampled
- 1353 check access @ SS-055: OK
- 1354 check access @ SS-054: OK
- 1355 check access @ SS-053: OK
- 1356 check access @ SS-044: OK
- 1358 collect SS-044 grab 1, 6.7 ft, 13 cm,  
accept
- 1407 collect SS-053 grab 1, 43.4 ft, 25 cm  
accept
- 1418 collect SS-054 grab 1, 5.2 ft,  
not accepted: washed out
- 1420 collect SS-054 grab 2, 5.2 ft,  
not accepted: washed out, rocks in jaws
- 1423 collect SS-054 grab 3, 5.2 ft,  
not accepted: washed out
- 1428 collect SS-054 grab 4 w/in 10 m, 3.7 ft  
not accepted: washed out
- 1430 collect SS-054 grab 5 w/in 10 m, 10.3 ft,  
not accepted: washed out, rocks in jaws
- 1433 collect SS-054 grab 6 w/in 10 m, 6.9 ft  
not accepted: washed out  
Contacted S. McGrady; will move on  
until hear back



5.15.2018

S. Replinger

AOC3 - Clam tissue collection - day 1

0920 Arrive at 1st Ave S' boat ramp and prep for clam tissue collection:

Weather: 50s, overcast

Crew: S. Replinger, T. Do, J. Rheuben, N. Mass, L. McPeak (WW), Rachel Crawford (Clearways), Chad Furulie (Grant), Kristen Kerns (USACE)

Low tide: -1.7 at 11:46 am

0940 H&S briefing.

0950 Depart boat ramp & prep for sampling.

1005 Arrive at Clamming area 6.

1023 Collect sediment for outfall 2510.  
(LDW18-SSOT-2510)

1035 Finish processing sediment.

1037 Conduct clam collection demo.

1040 Start clam collection

1155 Finish clam tissue collection. Record GPS coordinates

1201 Collect CPAH sediment for A11.  
(LDW18-SSCL-A11)

1230 General notes regarding C06 area:  
- clams <sup>very</sup> abundant at all sizes,  
- encountered many small clams while digging at shows

5.15.2018

S. Replinger

- area closer to creek very muddy and less accessible to getting stuck.

- clams most abundant under bridge near water.

- sediment generally fine med. sand w/ silt.

1238 - Finish processing clams and sediment. Load supplies onto boat.

1245 Depart clam area C06. Head to scope out ability to sample outfall 2114

1255 Arrive at beach to sample outfall 2114. Necessary to walk along shore behind barge.

1303 Collect LDW18-SSOT-2114. Process sample, and wait for boat to return.

1320 Boat arrives; load supplies and head back to boat ramp.

1330 Arrive at boat ramp Offload supplies. End of on-water day.

1345 Depart boat ramp. End of field day.

~~S. Replinger~~ 5.15.2018

*Rite in the Rain.*



06.12.18

0745 At 1<sup>st</sup> Ave boat ramp.

60°s, sunny.

Meet up w/ Pete Jenkins

CW &amp; Rachel

Remy Mathomot

USACE - Kristem Keous.

Windward - Suzanne Replinga

- Kate McPeak

- Mike Yarnes

- Aaron Edgington

- Brian Church

- Amanda Vandemat

- Nina Maas

- Jenna Rouben

Tewa Stat - Lorraine Reed.

0820 Health &amp; Safety briefing

0830 Head to CLOG/BPS to demo

and start sampling.

Unable to access BPS-A01

without boat drop-off

BPS-B01 underwater along  
pipe at rip rap wall

Did not collect Bank samples

4-1, 4-2, 4-3

TDD

06.12.18

1120 Meet up w/ other team. See other

logbooks for details to end of

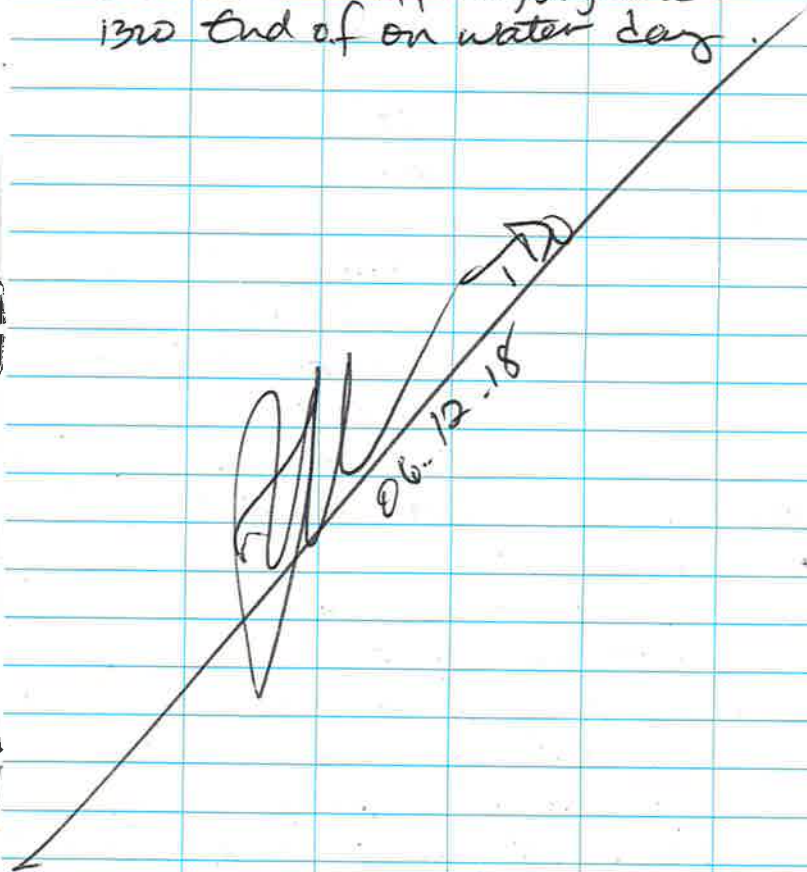
day, for continuing efforts

1250 Head back to boat ramp.

1310 Arrive. Offload/organize.

1320 End of on water day.

DB



K. McPeck  
3/2/18

- 1444 Collect SS-055 grab 1, 40.7 ft, 25 cm, accept
- 1456 Collect SS-056 grab 1 @ re-randomized loc. 1 (target is under a pier), 36.6 ft, 25 cm, accept
- 1504 Check access @ SS-057: still blocked by barge, proceed to re-randomized loc. 1 - also blocked by same barge
- 1507 Proceed to re-randomized loc. 2 - also under barge but can sample w/in 10 m
- 1509 Collect SS-057<sup>grab 1</sup> @ re-randomized loc. 2, within 10 m, 32.5 ft, 25 cm, accept
- 1520 Check access @ SS-058: still blocked by barge, proceed to re-randomized loc. 1
- 1524 Collect SS-058<sup>grab 1</sup> @ re-randomized loc. 1, 35.0 ft, 28 cm, accept
- 1533 return to SS-054 to sample at re-randomized loc. 1.
- 1534 collect SS-054 grab 7 @ re-randomized loc. 1, 17.7<sup>15.7</sup> ft, 13 cm, accept  
Small part washed-out; used non-washed out portion of sample
- 1546 Head back to Harbor Island Marina
- 1557 Arrive Harbor Island Marina, unload
- 1615 off-water 1615 3/2/18

6/12/18  
K. McPeck 37

June 12, 2018

Intertidal sediment sampling - Day 1

0800 Arrive 1st Ave S boat ramp, meet

Granty, prepare for sampling

Weather: 60s, sunny

Tide: low @ 1040 -1.9'

Crew: S. Replinger, T. Day, K. McPeck, N. Mass,

T. R. Heubert, A. Vandewert, B. Church,

A. Godington, M. Yarnes (windward)

Pete Tanking (Granty)

Romy Mathinet, Rachel Crawford (Clearwater)

Kristen Kerns (USACE)

Lorraine Reed (TerraStat)

0815 H+S briefing to cover boat and sampling safety

0830 Depart 1st Ave S boat ramp

0842 Arrive CLO9 for demo of sampling technique<sup>+BPS</sup>; dig demo holes and go through sample collection, labeling, and documentation process

0915 Begin collecting samples @ CLO9 and BPS, collect samples and make waypoints

1145 Depart CLO9, head to CL13

1200 Arrive CL13, collect samples, mark locations

1253 Depart CL13 for 1st Ave S boat ramp

1306 Arrive 1st Ave S boat ramp, off-water

Rite in the Rain

<sup>2</sup> S. Replinger

6.12.2018

LDW AOC3 Intertidal Sed - Day 1

0750 Arrive at 1st Ave S boat ramp

Prep for sampling.

Weather: sunny, 60s

Tide: low tide at 10:40 (-1.9 ft)

Crew: S. Replinger, T. Do, K. McPeck,  
N. Mass, J. Rheuben, A. Vandervort,  
B. Church, Aaron Edgington, M. James  
(Windward)

Pete Jenkins (Gravity)

Remy Mathon + Rachel Crawfers (Cleanings)

Kristen Kerns (USACE)

Lorraine Reed (TerraStat)

0815 Conduct H&S briefing to cover  
boat and sampling

0840 Arrive at CLO9/BP5 to begin  
sampling demo.

0945 SR, NM, LR, KK, RM depart to head to  
CLO4 to collect sediment.

0955 Arrive at CLO4. Begin sediment  
collection.

1100 Finish collecting sediment. Unable to  
collect sediment at CLO4-A06 due  
to rip/rap slope in this area and  
absence of exposed sediment.

S. Replinger

6.12.2018 <sup>3</sup>

Only able to collect down to  
23 cm at CLO4-A05 (noted on field  
forms).

1110 Depart CLO4 and head back to  
group at CLO9/11/13 + BP5.

1122 Return to CLO9 & reconvene w/ other  
teams. Pick up one team.

1130 Arrive at CL11/BP5 (middle).  
SR, NM, AE, RM, JR, MY, KK, LR disembark  
to collect samples.

1150 Finish at CL11/BP5. Collect all  
6 samples.

1155 Boat arrives. Rinse supplies and  
boat.

1200 Arrive at CL13/BP05 (south). Begin  
collecting samples.  
Collect at CL and BP samples as  
far upstream as Duxenish Waterway  
Park.

1230 Finish collecting CL + BP samples.  
Find BNK59 sample and collect  
sample (including FD and extra  
GS sample for lab QC). Kristen Kerns  
observed BNK59-1 collection.

S Replinger

6-12-2018

Consulted QAPP regarding criteria for bank soil locations. Kristen agreed that target location met criteria, so proceeded w/ sample collection.

- 1245 Finish sample collection. Load boat and prep supplies for Wednesday sampling.
- 1253 Depart CL13/BPO5. Head to 1st Ave S bridge.
- 1310 Arrive at 1st Ave S bridge. Organize supplies for Wednesday. Offload supplies.
- 1320 Crew departs. End of field day.

S. Replinger  
6-12-2018

S Replinger

6-13-2018

LDW AOC3 Intertidal Sediment - Day 2

0820 Arrive at 1st Ave S boat ramp.

Prep for sampling.

Weather: overcast, 60s

Tide: -2.8 at 11:22 am

Crew: S. Replinger

T. Og

K. McPeak

A. Edgington

N. Moss

J. Rhenben

B. Church

M. Yaines

Lorraine Reed (TerraStat)

Remy Mathonnet } (Cleanways)

Rachel Crawford }

Pete Jenkins (Granty)

0850 Depart 1st Ave S boat ramp  
Conduct H&S briefing, and review notes from 6/11 sampling.

0900 Arrive at CLO7/north part of BP4. Prep for sample collection. (SR, LR, NM, RM)

0915 Begin collecting samples:  
CLO7 (6 jars), BP4-north (7 jars),  
and 3 bank soil samples.

*Wets in the Rain.*

06.13.18

0820 Arrive 1<sup>st</sup> Ave boat launch.  
 Prep supplies, bO's, cloudy  
 WW. S. Redinger  
 T. Do  
 K. McReek  
 A. Edgington  
 W. Maas  
 B. Rheuben  
 B. Church  
 M. Yanes

Tenat. Lorraine Reed

Clearways - R. Mattiometti  
 R. Crawford

Gravity, P. Jenkins

0850 H/S brief. Depart for site.

0930 Begin collecting BNL4-1, 4-2 & 4-3  
 samples

Begin collecting BP and CL samples  
 (BPS A01 & B01)

0945 BPS-B01 against concrete barrier  
 wall and rip rap. Not a beach.  
 Location is against steep rip rap  
 slope and moved barge. Relocated  
 upstream to beach area.

06.13.18

1025 Continue collecting BPS & CL samples  
 1345 End of collection. Head back  
 to pick up other crews and  
 head to boat ramp.  
 1420 Arrive at boat ramp. Offload.  
 1445 End of on water day.

~~06.13.18~~

June 13, 2018

K. McPeck  
6/13/18

## Intertidal sediment sampling: Day 2

0830 Arrive 1st Ave S boat ramp, meet Gravity  
and prepare for sampling

Weather: 50s, cloudy

Tide: low @ 1122, -2.8 ft

Crew: S. Repling, T. Do, K. McPeck, N. Mews,

J. Rheuben, B. Church, A. Edgington,

M. Yarnes, (windward)

Pete Jenkins (Gravity)

R. Mathonnet, R. Crawford (Clearways)

Lorraine Reed (TerraStat)

0845 H+S briefing, depart 1st Ave S boat ramp

0925 K. McPeck, M. Yarnes, R. Crawford arrive

0925 CL05, begin sampling @ CL05,  
collect coordinates

Locations CL05-C01, CL05-A02

relocated due to riprap

Could not collect CL05-A01 - located on  
riprap slope with no nearby options to  
relocate

1122 Finish CL05

1144 Arrive CL06, begin sampling @ CL06  
CL06-A01 and -A03 located on riprap -  
relocated to nearest sampleable loc.

1240 finish CL06, head to CL03

1255 Arrive CL03, begin sampling  
transect C, finish transect C and collect  
coordinates; not able to sample further  
due to tide1400 Depart CL03, head back to 1st Ave S  
boat ramp1420 Arrive 1st Ave S boat ramp, unload,  
off-water~~Handwritten note~~~~6/13/18~~

S. Replinger

6-13-2018

- 1105 Finish collecting samples at CLO7 + north area of BP4. Successfully collected all 6 CL samples, 7 BP samples and 3 bank soil samples.
- 1115 Depart beach. Head to CLO8 + south part of BP4 to collect samples:  
CLO8 (6 jars) + BP4 (5 jars).
- 1120 Arrive at CLO8/BP4 south. Offload supplies.
- 1135 Begin collecting samples at CLO8/BP4-s.  
- Numerous clam shells in this area. Several locations moved due to soft substrate around creek, as noted on field forms.  
- Evidence of prop scour at south end of CLO8/BP4.
- 1303 Finish collecting samples at CLO8/BP4 south. Successfully collected all 6 CL and all 8 BP samples. Finish checking jars + forms.
- 1310 Boat arrives. Contact Kate + Thai to check progress. Decide to head to BP5/CL13 to help Thai finish.
- 1330 Arrive at S end of BP5. Start collecting samples.

S. Replinger

6-13-2018

- 1345 Depart BP5/CL13. Head to pick up Kate & crew at BP3/CL03.
- 1400 Pick up Kate & crew.  
Head back to boat ramp.
- 1420 Arrive at 1st Ave S. Bridge. Offload supplies.
- 1440 Crew departs. End of field day.

~~S. Replinger  
6-13-2018~~

06.14.18

T.D.

0850 Arrive at Harbor Island Marina  
(C dock). Meetup w/ Pete  
Jenkins (Gravity). Load supplies  
and eqpt.

60's, overcast.

WW: S. Replinga  
R. McPike

N. Maas

J. Rheuben

A. Edgington

M. Yarnes

B. Church

A. Vandevent

T. D.

CW: R. Mathomet  
R. Crawford.

Terrastat: L. Read

KC: Debra Wilkison

0920 H/S briefing. Depart for Kellogg  
Island.

0930 Arrive Kellogg Island. Drop off  
1 team.

0945 Begin sampling

1200 Completed sampling at Kellogg Island.

06.14.18

T.D.

1250 Pickup other team.

1300 Head to CLO1/BP1

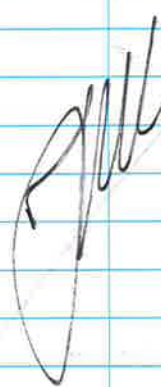
1310 Begin sample.

1355 End sampling.

1405 Head back to marina.

1420 Arrive. offload.

1440 End of field day

 T.D.  
06.14.18

Note: moved CLO1-B01  
from tributary closer to  
LW confluence b/c not  
a clammy exposure area.  
OK'd by Debra Wilkison.



S. Replinger

6-14-2018

LDW AOC3 - Intertidal Sediment - Day 3

0850 Arrive at Harbor Island Marina.

Prep for sampling.

Weather: overcast, 60s

Tides: -3.4 ft at 12:07pm

Crew: S. Replinger

T. Do

K. McPeak

J. Rhenben

N. Moas

B. Church

M. Yarnes

A. Edgington

A. Vandervent

Lorraine Reed (Terrastat)

Remy Mathonnet } (cleanways)

Rachel Crawford }

Pete Jenkins (Grantry)

0920 Depart Harbor Island Marina. Head to Harbor Island.

Conduct H&amp;S briefing.

0930 Arrive at Herring House Park and meet up w/ Kristen Kerns. Kate's crew departs to begin sampling.

S. Replinger

6-14-2018 9

0935 Head to Kellogg Island.

0940 Arrive at Kellogg Island. Other two crews depart to begin sampling.

0945 Begin sampling, starting with transects G, H, and F. Then proceed to transects D+C.

~~1200~~ Finish at CLO2 + get picked up by boat. Join other two crews already on the boat. Six samples not collected.

1300 Depart CLO2/BP2. Kristen departs. Head to CLO1 + BP1.

1310 Start collecting samples at CLO1/BP1. Collect duplicate sample at BP1 (2 - 16 oz jars per hole). Joined at beach by Elly Hale (ERA), who was present to observe sampling.

1355 Finish collecting samples at BP2 + CLO1.

1405 Depart BP2/CLO1. Head back to Harbor Island Marina.

1420 Arrive at Harbor Island Marina. Offload samples.

1440 Crew departs. End of field day.

S. Replinger

6-14-2018

K. McPeck  
6/14/18

June 14, 2018

## Intertidal Sediment Sampling: Day 3

0850 Arrive Harbor Island Marina, meet Gravity,  
prepare for sampling

Weather: 50s, cloudy

Tide: low @ 1207, -3.4 ft

Crew: S. Replinger, T. Do, K. McPeck, N. Meas,  
J. Rhusben, A. Vandervort, B. Church,  
A. Edgington, M. Yarnes (Windward)  
Pete Jenkins (Gravity)  
R. Mathonnet, R. Crawford (Clearways)  
L. Reed (TerraStat)  
D. Williston (King County)

0905 Depart Harbor Island Marina

0930 Arrive CLO2, meet Kristen Kerns (USACE)

0935 K. McPeck, M. Yarnes, B. Church, R. Crawford,  
K. Kerns begin sampling CLO2, BP2,  
and BNKI-1

CLO2-A01 relocated due to riprap

1220 Finish sampling CLO2, BP2, BNKI-1

K. Kerns departs

1235 Depart CLO2

1305 Arrive CLO1, BP1

begin sampling

1400 Finish CLO1, BP1; depart

1420 Arrive Harbor Island Marina, unload, off-  
waterK. McPeck  
6/15/18<sup>41</sup>

June 15, 2018

## Intertidal sediment sampling: Day 4

0915 Arrive Harbor Island Marina, meet Gravity,  
prepare for sampling

Weather: 60s, sunny

Tide: low @ 1253, -3.5 ft

Crew: S. Replinger, T. Do, K. McPeck, N. Meas,  
J. Rhusben, A. Vandervort, B. Church,  
A. Edgington (Windward)  
Pete Jenkins (Gravity)  
R. Mathonnet, R. Crawford (Clearways)  
L. Reed (TerraStat)  
J. Flores (Port of Seattle)  
Sean Conway (Boeing)0945 Depart Harbor Island Marina,  
H+S briefing  
Head to CL15 + CL161035 K. McPeck, B. Church, R. Crawford arrive  
CL16, begin sampling  
Relocated many points due to deep, sinking  
sediment (past mid-calf)

CL16-A07 relocated due to riprap

1415 Finish CL16, head to CL15 to help other  
group1510 Depart CL15, pick up other crew and  
head back to Harbor Island Marina

Rite in the Rain

06.15.18

TDD

0915 Arrive Harbor Island Marina - Clock.  
 Meet up w/ P. Jenkins (Gravity)  
 Load supplies. 60-70s - pthly cloudy  
 L @ 12:53p.

WW: S Replington  
 K McPeck  
 N Maas  
 J Rheuben  
 A Edgington  
 B Church  
 A Vandervort  
 T D

T-Stat: L. Read

CW: R Mathonet

Boeing S. Conway

Portals J. Flores

0930 H/S briefing. Prep.

0945 Depart marina for turning basin, C15 &amp; BPT

1040 At BPT/C15 - begin sampling.

1230 Completed. Head to C13/BPS to pick up remnant samples.

1245 ~~Completed~~ Arrive C13/BPS.

1250 Begin sampling

06.15.18

TDD

~~1330~~ 1315 Complete sampling. Head to C12.

1330 Begin sampling at C12

1500 Complete sampling at C12.

1515 Picked up by boat. Head to marina.

1600 Arrive at Harbor Island Marina. Offload.

1615 End of on-water day

*[Signature]*  
 TDD  
 06.15.18

S. Replinger

6/14/2018

Notes regarding 6/14/2018 sampling →

CLO2 - Six samples not collected from this area.

- HΦ1 and IΦ2 not collected due to placement of targets in area that was not in the intertidal (plants/shrubs covered area)
- CΦ6, CΦ8, DΦ8, and DΦ9 not collected due to muddy substrate.

BP2 - all samples collected to issue.

CLO1 - all samples collected. Based on conversation w/ Debra + Lorraine (2nd Elly Itale), moved CLO1-BP1 closer to intertidal area where clam shows present. Target was in freshwater creek (not rep. of intertidal area). Intertidal layer should be adjusted.

BP1 - all samples collected to issue (including FD).

S. Replinger

6/15/2018

LDW AOC3 - intertidal sediment - day 4

0915 Arrive at Harbor Island Marina.

Prep for sampling.

Weather: Sunny, 60sTide: -3.5 ft at 12:53Crew: S. Replinger

T. Do

K. McPeak

N. Moss

J. Rhueters

B. Church

A. Edgington

A. Vanderhoff

Lorraine Reed (Terrastar)

Rachel Crawford

Remy Mathonnet

Sean Conway (Boeing)

Pete Jenkins (Granny)

Juanna Florer (Port of Seattle)

0945 Depart Harbor Island Marina. Head to turning basin to collect samples at CL15, CL16, BP7, and BP8.

1020 Arrive at CL15 (south) + BP8. Crew obs R, NM, RM, LR, SC departs.

06.16.18

0940 Arrive at H.I. Marine Prep.

Weather 60's, pty cloudy

-3.2 ft @ 1341

Crew

- S Replingor
- K. Mc Reek
- J. Rhenben
- A. Vandewat
- N. Maas
- A. Edgington
- B. Church
- A. Hawley
- B. Bergquist

} WW

CW R. Crawford  
R. Mathonett

Gravity P. Jenkins  
J. Wilson.

WW T. Do

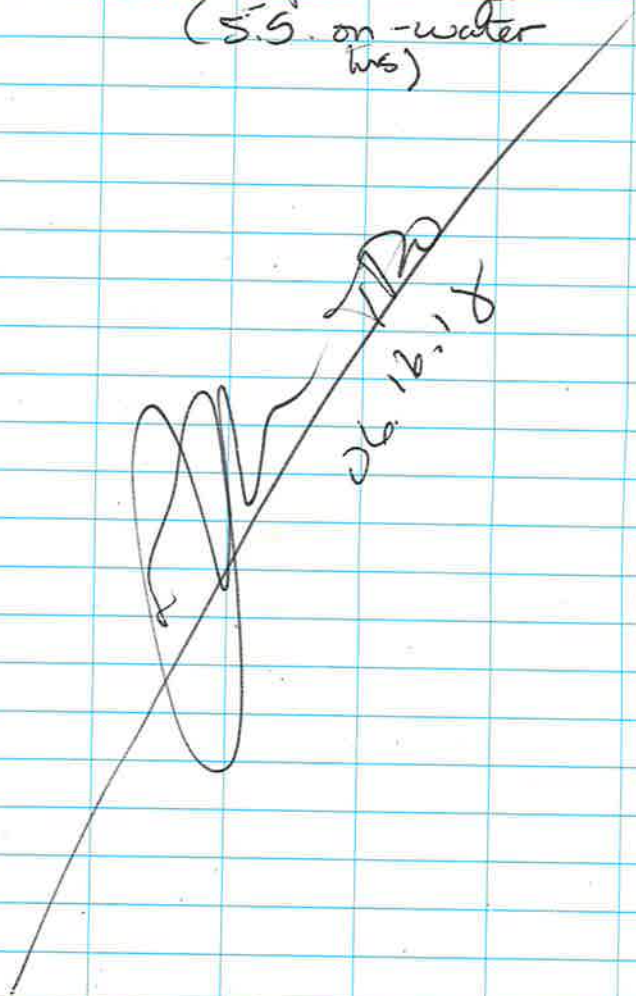
1030 Depart marina for CH2  
H/S briefing

1055 Arrive CH2, begin sampling.

1400 Completed sampling. Head to  
other crews.1455 Arrive marina, offload supplies  
and samples.

TDD

06.16.18

1570 Crew departs. End of an  
water field day.  
(5.5 on-water hrs)~~TDD~~

42 K. McPeck  
6/15/18

1600 Arrive Harbor Island Marina, unload,  
off-water

Harbor Island Marina

6/15/18

K. McPeck  
6/16/18 43

June 16, 2018

Intertidal sediment sampling - Day 5

0945 Arrive Harbor Island Marina, meet Gravity,  
prepare for sampling

Weather: 60s, overcast

Tide: low @ 1341, 3.2 ft

Crew: S. Replinger, T. Do, K. McPeck, N. Mues,  
J. Rhesber, A. Vandervort, B. Church,  
B. Bergquist, A. Hawley, A. Edgington  
(windward)  
R. Muthennut, R. Crawford (Clearways)  
P. Jenkins, J. Wilson (Gravity)

1020 H&S briefing

1030 Depart Harbor Island Marina on Muzama -  
w/ J. Wilson  
B. Bergquist, B. Church, R. Crawford, K. McPeck  
Head to CL03, BP3

1040 Arrive CL03, BP3 - begin sampling

1440 Finish sampling at CL03, BP3,  
head back to Harbor Island Marina

1455 Arrive Harbor Island Marina, unload boats,  
off-water

Harbor Island Marina  
6/16/18

S. Replinger

6-15-2018

1025 Begin collecting samples at BP8 + CL15. Also collect BNK6-1 and BNK6-2.

Successfully collect all samples from this area.

1510 Depart CL15/BP8 Head to pick up other crew at South end of CL12.

1515 Pick up Thai crew. Hoist supplies and head back to Harbor Island Marina.

1600 Arrive at Harbor Island Marina. Offload supplies.

1615 Crew departs. End of field day.

~~S. Replinger  
6-15-2018~~

S. Replinger

6-16-2018

0940 Arrive at Harbor Island Marina.

Prep for sampling.

Weather:

Tide: -3.2 ft at 1341

Crew: S. Replinger

T. Do

K. McPeak

N. Maas

J. Rhenben

A. Edgington

B. Church.

A. Vandervort

Attawley

B. Bergquist

Rachel Crawford } (Cleanways)

Remy Mathonnet }

Pete Jenkins }

Jeff Wilson } (Grants)

(Windward)

1030 Depart Harbor Island Marina.

Suzanne + Thai's crews on boat w/ Pete. Kate on Boat w/ Jeff Wilson.

1033 Conduct H&S briefing.

\* Samples remaining: CL03/BP3, CL12, CL14, CL10/BP6, and one sample at each of CL04 + CL05.

14 S. Replinger 6.16.2018

1050 Arrive at South end of CL12. SR, NM, RM, and AH begin collecting samples.

1140 Finish collecting samples at CL14. All 9 samples collected successfully.

1150 Boat arrives. Wash supplies and head downstream to CL10/BPG.

1205 Arrive at CL10/BPG to collect 6 clam samples and 9 BP samples (+FD).

1335 Depart CL10/BPG. Successfully collected all samples. Head to collect 1 sample each at CL04 + CL05.

1345 Arrive at CL04. Collect one sample.

1355 Depart CL04 and head to CL05.

1357 Arrive at CL05. Collect one sample.

1403 Depart CL05. Head to meet up w/ other crews.

1455 Arrive at ~~Sa~~ Harbor Island Marina. Offload & wash supplies.

1510 Crew departs. End of on-water time.

~~S. Replinger  
6.16.2018~~



**Photos**

<b>Photo No.:</b>	<b>1</b>
<b>Date:</b>	02-22-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS001	



<b>Photo No.:</b>	<b>2</b>
<b>Date:</b>	02-22-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS002	



<b>Photo No.:</b>	<b>3</b>
<b>Date:</b>	02-22-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS003	



<b>Photo No.:</b>	<b>4</b>
<b>Date:</b>	02-22-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS004	



<b>Photo No.:</b>	<b>5</b>
<b>Date:</b>	02-26-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS005	



<b>Photo No.:</b>	<b>6</b>
<b>Date:</b>	02-22-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS006	



<b>Photo No.:</b>	7
<b>Date:</b>	02-22-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS007	



<b>Photo No.:</b>	8
<b>Date:</b>	02-22-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS008	



<b>Photo No.:</b>	<b>9</b>
<b>Date:</b>	02-26-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS009	



<b>Photo No.:</b>	<b>10</b>
<b>Date:</b>	02-26-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS010	






Photo No.:	11	
Date:	02-26-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS011		
Photo No.:	12	
Date:	02-26-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS012		

<b>Photo No.:</b>	<b>13</b>
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS013	




<b>Photo No.:</b>	<b>14</b>
<b>Date:</b>	02-26-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS014	





<b>Photo No.:</b>	<b>15</b>
<b>Date:</b>	02-26-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS015	



<b>Photo No.:</b>	<b>16</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS016	



<b>Photo No.:</b>	17
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS017	

<b>Photo No.:</b>	18
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS018	

**Photo No.:** 19

**Date:** 03-02-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS019





**Photo No.:** 20


**Date:** 03-02-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS020



<b>Photo No.:</b>	<b>21</b>	
<b>Date:</b>	03-02-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS021		
<b>Photo No.:</b>	<b>22</b>	<i>No photo available</i>
<b>Date:</b>	03-02-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS022		

<b>Photo No.:</b>	<b>23</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS023	
	


<b>Photo No.:</b>	<b>24</b>
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS024	
	

<b>Photo No.:</b>	<b>25</b>
<b>Date:</b>	02-22-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS025	



<b>Photo No.:</b>	<b>26</b>
<b>Date:</b>	02-22-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS026	



Photo No.:	27	
Date:	02-22-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS027		
Photo No.:	28	<i>No photo available</i>
Date:	03-01-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS028		

<b>Photo No.:</b>	<b>29</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS029	



<b>Photo No.:</b>	<b>30</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS030	





<b>Photo No.:</b>	<b>31</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS031	



<b>Photo No.:</b>	<b>32</b>
<b>Date:</b>	02-22-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS032	



**Photo No.:** 33  
**Date:** 02-22-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS033



**Photo No.:** 34  
**Date:** 02-22-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS034



**Photo No.:** 35  
**Date:** 02-22-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS035



**Photo No.:** 36  
**Date:** 02-22-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS036





**Photo No.:** 37  
**Date:** 02-22-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS037



**Photo No.:** 38  
**Date:** 02-23-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS03802-22-18




Photo No.:	39	
Date:	02-26-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS039		
Photo No.:	40	
Date:	02-26-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS040		

**Photo No.:** 41  
**Date:** 03-02-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS041



**Photo No.:** 42  
**Date:** 02-22-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS042



Photo No.:	43	
Date:	02-22-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS043		
Photo No.:	44	<i>No photo available</i>
Date:	03-02-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS044		

**Photo No.:** 45  
**Date:** 02-26-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS045




**Photo No.:** 46  
**Date:** 02-26-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS046







<b>Photo No.:</b>	<b>47</b>
<b>Date:</b>	02-26-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS047	



<b>Photo No.:</b>	<b>48</b>
<b>Date:</b>	02-26-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS048	



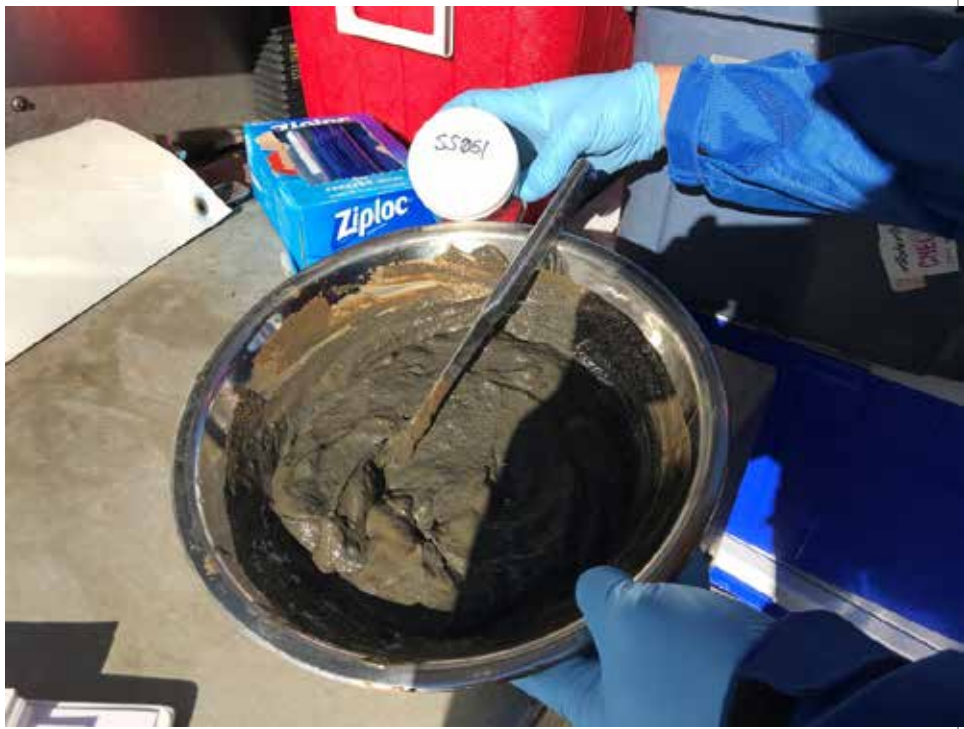
<b>Photo No.:</b>	<b>49</b>
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS049	



<b>Photo No.:</b>	<b>50</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS050	



<b>Photo No.:</b>	<b>51</b>
<b>Date:</b>	02-22-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS051	



<b>Photo No.:</b>	<b>52</b>
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS052	



Photo No.:	53	
Date:	03-02-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS053		
Photo No.:	54	<i>No photo available</i>
Date:	03-02-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS054		

<b>Photo No.:</b>	<b>55</b>
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS055	




<b>Photo No.:</b>	<b>56</b>
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS056	



<b>Photo No.:</b>	<b>57</b>
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS057	



<b>Photo No.:</b>	<b>58</b>
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS058	



**Photo No.:** 59

**Date:** 03-02-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS059



**Photo No.:** 60

**Date:** 03-02-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS060



<b>Photo No.:</b>	<b>61</b>
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS061	



<b>Photo No.:</b>	<b>62</b>
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS062	





**Photo No.:** 63  
**Date:** 03-02-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS063



**Photo No.:** 64  
**Date:** 02-22-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS064



<b>Photo No.:</b>	<b>65</b>
<b>Date:</b>	02-23-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS065	


<b>Photo No.:</b>	<b>66</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS066	

**Photo No.:** 67  
**Date:** 02-23-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS067



**Photo No.:** 68  
**Date:** 02-23-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS068



Photo No.:	69	
Date:	02-22-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS069		
Photo No.:	70	<i>No photo available</i>
Date:	03-01-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS070		


<b>Photo No.:</b>	<b>71</b>
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS071	




<b>Photo No.:</b>	<b>72</b>
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS072	



<b>Photo No.:</b>	<b>73</b>
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS073	



<b>Photo No.:</b>	<b>74</b>
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS074	



**Photo No.:** 75

**Date:** 03-02-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS075




**Photo No.:** 76

**Date:** 03-02-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS076



<b>Photo No.:</b>	<b>77</b>
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS077	




<b>Photo No.:</b>	<b>78</b>
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS078	






<b>Photo No.:</b>	<b>79</b>	<i>No photo available</i>
<b>Date:</b>	03-02-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS079		
<b>Photo No.:</b>	<b>80</b>	<i>No photo available</i>
<b>Date:</b>	03-02-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS080		

<b>Photo No.:</b>	<b>81</b>
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS081	



<b>Photo No.:</b>	<b>82</b>
<b>Date:</b>	03-02-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS082	



**Photo No.:** 83

**Date:** 03-02-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS083



**Photo No.:** 84

**Date:** 03-02-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS084




<b>Photo No.:</b>	<b>85</b>
<b>Date:</b>	02-28-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS085	



<b>Photo No.:</b>	<b>86</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS086	



<b>Photo No.:</b>	<b>87</b>
<b>Date:</b>	02-28-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS087	



<b>Photo No.:</b>	<b>88</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS088	



<b>Photo No.:</b>	<b>89</b>
<b>Date:</b>	02-28-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS089	



<b>Photo No.:</b>	<b>90</b>
<b>Date:</b>	02-28-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS090	



<b>Photo No.:</b>	<b>91</b>
<b>Date:</b>	02-28-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS091	



<b>Photo No.:</b>	<b>92</b>
<b>Date:</b>	02-28-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS092	



**Photo No.:** 93

**Date:** 02-27-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS093



**Photo No.:** 94


**Date:** 03-01-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS094






<b>Photo No.:</b>	<b>95</b>
<b>Date:</b>	02-28-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS095	




<b>Photo No.:</b>	<b>96</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS096	



<b>Photo No.:</b>	<b>97</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS097	



<b>Photo No.:</b>	<b>98</b>
<b>Date:</b>	02-28-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS098	

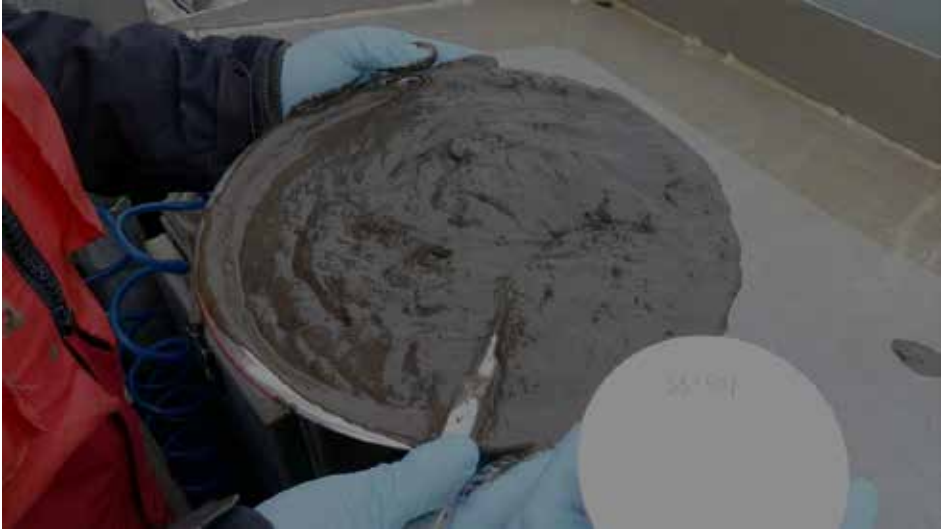



**Photo No.:** 99  
**Date:** 03-01-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS099



**Photo No.:** 100  
**Date:** 02-28-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS100



<b>Photo No.:</b>	<b>101</b>
<b>Date:</b>	02-28-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS101	
	

<b>Photo No.:</b>	<b>102</b>
<b>Date:</b>	02-28-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS102	
	

**Photo No.:** 103

**Date:** 03-01-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS103



**Photo No.:** 104

**Date:** 02-28-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS104



<b>Photo No.:</b>	<b>105</b>
<b>Date:</b>	02-28-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS105	



<b>Photo No.:</b>	<b>106</b>
<b>Date:</b>	02-23-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS106	



<b>Photo No.:</b>	<b>107</b>
<b>Date:</b>	02-23-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS107	



<b>Photo No.:</b>	<b>108</b>
<b>Date:</b>	02-23-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS108	



<b>Photo No.:</b>	<b>109</b>	<i>No photo available</i>
<b>Date:</b>	02-23-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS109		

<b>Photo No.:</b>	<b>110</b>	
<b>Date:</b>	02-23-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS110		



**Photo No.:** 111  
**Date:** 02-23-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS111



**Photo No.:** 112  
**Date:** 02-23-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS112



<b>Photo No.:</b>	<b>113</b>
<b>Date:</b>	02-23-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS113	



<b>Photo No.:</b>	<b>114</b>
<b>Date:</b>	02-23-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS114	



<b>Photo No.:</b>	<b>115</b>
<b>Date:</b>	02-23-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS115	



<b>Photo No.:</b>	<b>116</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS116	



<b>Photo No.:</b>	<b>117</b>
<b>Date:</b>	02-23-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS117	



<b>Photo No.:</b>	<b>118</b>
<b>Date:</b>	02-23-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS118	



**Photo No.:** 119  
**Date:** 02-23-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS119



**Photo No.:** 120  
**Date:** 02-23-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS120



**Photo No.:** 121  
**Date:** 02-23-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS121



**Photo No.:** 122  
**Date:** 02-23-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS122



**Photo No.:** 123  
**Date:** 02-26-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS123



**Photo No.:** 124  
**Date:** 02-23-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS124




**Photo No.:** 125  
**Date:** 02-23-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS125




**Photo No.:** 126  
**Date:** 02-23-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS126





<b>Photo No.:</b>	<b>127</b>
<b>Date:</b>	02-26-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS127	
	

<b>Photo No.:</b>	<b>128</b>
<b>Date:</b>	02-26-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS128	
	


<b>Photo No.:</b>	<b>129</b>
<b>Date:</b>	02-26-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS129	



<b>Photo No.:</b>	<b>130</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS130	



<b>Photo No.:</b>	<b>131</b>	
<b>Date:</b>	02-26-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS131		

<b>Photo No.:</b>	<b>132</b>	
<b>Date:</b>	02-26-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS132		

<b>Photo No.:</b>	<b>133</b>
<b>Date:</b>	02-26-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS133	



<b>Photo No.:</b>	<b>134</b>
<b>Date:</b>	02-28-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS134	



**Photo No.:** 135  
**Date:** 02-28-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS135




**Photo No.:** 136  
**Date:** 02-28-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS136



<b>Photo No.:</b>	<b>137</b>
<b>Date:</b>	02-28-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS137	



<b>Photo No.:</b>	<b>138</b>
<b>Date:</b>	02-28-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS138	



**Photo No.:** 139  
**Date:** 03-08-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS139



**Photo No.:** 140  
**Date:** 02-28-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS140



<b>Photo No.:</b>	<b>141</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS141	



<b>Photo No.:</b>	<b>142</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS142	





**Photo No.:** 143

**Date:** 03-01-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS143



**Photo No.:** 144

**Date:** 03-01-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS144



**Photo No.:** 145

**Date:** 02-27-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS145



**Photo No.:** 146

**Date:** 03-01-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS146



<b>Photo No.:</b>	<b>147</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS147	



<b>Photo No.:</b>	<b>148</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS148	



**Photo No.:** 149

**Date:** 02-27-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS149




**Photo No.:** 150

**Date:** 02-27-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS150



<b>Photo No.:</b>	<b>151</b>	
<b>Date:</b>	02-27-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS151		
<b>Photo No.:</b>	<b>152</b>	
<b>Date:</b>	02-27-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS152		

**Photo No.:** 153

**Date:** 02-27-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS153



**Photo No.:** 154

**Date:** 02-27-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS154



**Photo No.:** 155

**Date:** 02-27-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS155



**Photo No.:** 156


**Date:** 02-27-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS156




**Photo of homogenized sediment not available. Sediment grab photo presented above.**

<b>Photo No.:</b>	<b>157</b>
<b>Date:</b>	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS157	



<b>Photo No.:</b>	<b>158</b>
<b>Date:</b>	02-27-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS158	





**Photo No.:** 159

**Date:** 02-27-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS159




**Photo No.:** 160

**Date:** 02-27-18


**Description:**  
Duwamish AOC3  
Grab sample at location  
SS160



<b>Photo No.:</b>	<b>161</b>
<b>Date:</b>	02-27-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS161	



<b>Photo No.:</b>	<b>162</b>
<b>Date:</b>	02-27-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS162	



<b>Photo No.:</b>	<b>163</b>
<b>Date:</b>	02-27-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS163	



<b>Photo No.:</b>	<b>164</b>
<b>Date:</b>	02-27-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS164	



**Photo No.:** 165  
**Date:** 02-28-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS165



**Photo No.:** 166  
**Date:** 02-28-18  
**Description:**  
Duwamish AOC3  
Grab sample at location  
SS166



<b>Photo No.:</b>	<b>167</b>
<b>Date:</b>	02-28-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS167	



<b>Photo No.:</b>	<b>168</b>
<b>Date:</b>	02-28-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS168	





<b>Photo No.:</b>	<b>169</b>
<b>Date:</b>	02-23-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS169	




<b>Photo No.:</b>	<b>170</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS170	



<b>Photo No.:</b>	<b>171</b>	
<b>Date:</b>	03-01-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS171		

<b>Photo No.:</b>	<b>172</b>	
<b>Date:</b>	03-01-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS172		

<b>Photo No.:</b>	<b>173</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS173	



<b>Photo No.:</b>	<b>174</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS174	







Photo No.:	175	
Date:	03-01-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS175		
Photo No.:	176	
Date:	03-01-18	
<b>Description:</b> Duwamish AOC3 Grab sample at location SS176		

**Photo No.:** 177

**Date:** 03-02-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS177




**Photo No.:** 178

**Date:** 03-01-18


**Description:**  
Duwamish AOC3  
Grab sample at location  
SS178



<b>Photo No.:</b>	<b>179</b>
<b>Date:</b>	02-23-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS179	



<b>Photo No.:</b>	<b>180</b>
<b>Date:</b>	02-28-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS180	



<b>Photo No.:</b>	<b>181</b>
<b>Date:</b>	02-28-18
<b>Description</b> Duwamish AOC3 Grab sample at location SS181	



<b>Photo No.:</b>	<b>182</b>
<b>Date:</b>	03-01-18
<b>Description:</b> Duwamish AOC3 Grab sample at location SS182	



**Photo No.:** 183

**Date:** 03-02-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS183



**Photo No.:** 184

**Date:** 02-23-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS184



**Photo No.:** 185

**Date:** 02-28-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS185



**Photo No.:** 186

**Date:** 02-28-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS186



**Photo No.:** 187

**Date:** 03-02-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS187



**Photo No.:** 188

**Date:** 02-28-18

**Description:**  
Duwamish AOC3  
Grab sample at location  
SS188



<b>Photo No.:</b>	<b>189</b>
<b>Date:</b>	2-23-18
<b>Description:</b> Duwamish AOC3 Near-outfall location 5 <sup>th</sup> Ave S	



<b>Photo No.:</b>	<b>190</b>
<b>Date:</b>	2-28-18
<b>Description:</b> Duwamish AOC3 Near-outfall location 2100A-1	





<b>Photo No.:</b>	<b>189</b>
<b>Date:</b>	2-28-18
<b>Description:</b> Duwamish AOC3 Near-outfall location 2100A-2	



<b>Photo No.:</b>	<b>190</b>
<b>Date:</b>	2-28-18
<b>Description:</b> Duwamish AOC3 Near-outfall location 2101	



**Photo No.:** 189

**Date:** 2-23-18

**Description:**  
Duwamish AOC3  
Near-outfall location  
2109-1



**Photo No.:** 190

**Date:** 2-23-18

**Description:**  
Duwamish AOC3  
Near-outfall location  
2109-2



**Photo No.:** 189

**Date:** 3-1-18

**Description:**  
Duwamish AOC3  
Near-outfall location  
2507





**Photo No.:** 190

**Date:** 3-2-18

**Description:**  
Duwamish AOC3  
Near-outfall location  
2509



<b>Photo No.:</b>	<b>189</b>	
<b>Date:</b>	2-28-18	
<b>Description:</b> Duwamish AOC3 Near-outfall location CleanScapes B		

<b>Photo No.:</b>	<b>190</b>	
<b>Date:</b>	2-28-18	
<b>Description:</b> Duwamish AOC3 Near-outfall location Dawn Foods		

<b>Photo No.:</b>	<b>189</b>
<b>Date:</b>	3-8-18
<b>Description:</b> Duwamish AOC3 Near-outfall location Delta Marine	



<b>Photo No.:</b>	<b>190</b>
<b>Date:</b>	2-28-18
<b>Description:</b> Duwamish AOC3 Near-outfall location Ditch #2	



<b>Photo No.:</b>	<b>189</b>
<b>Date:</b>	2-28-18
<b>Description:</b> Duwamish AOC3 Near-outfall location DuwSD#3	



<b>Photo No.:</b>	<b>190</b>
<b>Date:</b>	3-1-18
<b>Description:</b> Duwamish AOC3 Near-outfall location FedCtrS	



<b>Photo No.:</b>	<b>189</b>
<b>Date:</b>	3-2-18
<b>Description:</b> Duwamish AOC3 Near-outfall location GlacierNW-CBP	



<b>Photo No.:</b>	<b>190</b>
<b>Date:</b>	2-27-18
<b>Description:</b> Duwamish AOC3 Near-outfall location Seattle Dist Ctr	



<b>Photo No.:</b>	<b>191</b>
<b>Date:</b>	5-15-18
<b>Description:</b> Duwamish AOC3 Near-outfall location 2510	



<b>Photo No.:</b>	<b>192</b>
<b>Date:</b>	5-15-18
<b>Description:</b> Duwamish AOC3 Near-outfall location 2114	





<b>Photo No.:</b>	<b>193</b>
<b>Date:</b>	2-23-18
<b>Description:</b> Duwamish AOC3 Near-outfall location T107 Park	



**Photo No.:** 194  
**Date:** 2-26-18  
**Description:**  
Duwamish AOC3  
Composite 1



**Photo No.:** 195  
**Date:** 2-28-18  
**Description:**  
Duwamish AOC3  
Composite 2



**Photo No.:** 196  
**Date:** 3-6-18  
**Description:**  
Duwamish AOC3  
Composite 3



**Photo No.:** 197  
**Date:** 3-6-18  
**Description:**  
Duwamish AOC3  
Composite 4



**Photo No.:** 198  
**Date:** 2-26-18  
**Description:**  
Duwamish AOC3  
Composite 5



**Photo No.:** 199  
**Date:** 3-5-18  
**Description:**  
Duwamish AOC3  
Composite 6



**Photo No.:** 200  
**Date:** 3-5-18  
**Description:**  
Duwamish AOC3  
Composite 7



**Photo No.:** 201  
**Date:** 3-6-18  
**Description:**  
Duwamish AOC3  
Composite 8



<b>Photo No.:</b>	<b>202</b>
<b>Date:</b>	<b>3-6-18</b>
<b>Description:</b> Duwamish AOC3 Composite 9	



<b>Photo No.:</b>	<b>203</b>
<b>Date:</b>	<b>3-5-18</b>
<b>Description:</b> Duwamish AOC3 Composite 10	



<b>Photo No.:</b>	<b>204</b>
<b>Date:</b>	3-6-18
<b>Description:</b> Duwamish AOC3 Composite 11	



<b>Photo No.:</b>	<b>205</b>
<b>Date:</b>	3-6-18
<b>Description:</b> Duwamish AOC3 Composite 12	



**Photo No.:** 206  
**Date:** 3-5-18  
**Description:**  
Duwamish AOC3  
Composite 13



**Photo No.:** 207  
**Date:** 3-6-18  
**Description:**  
Duwamish AOC3  
Composite 14





<b>Photo No.:</b>	<b>208</b>
<b>Date:</b>	3-6-18
<b>Description:</b> Duwamish AOC3 Composite 15	



<b>Photo No.:</b>	<b>209</b>
<b>Date:</b>	2-26-18
<b>Description:</b> Duwamish AOC3 Composite 16	



**Photo No.:** 210  
**Date:** 3-5-18  
**Description:**  
Duwamish AOC3  
Composite 17



**Photo No.:** 211  
**Date:** 2-28-18  
**Description:**  
Duwamish AOC3  
Composite 18



<b>Photo No.:</b>	212
<b>Date:</b>	3-5-18
<b>Description:</b> Duwamish AOC3 Composite 19	



<b>Photo No.:</b>	213
<b>Date:</b>	3-9-18
<b>Description:</b> Duwamish AOC3 Composite 20	



<b>Photo No.:</b>	<b>214</b>
<b>Date:</b>	3-6-18
<b>Description:</b> Duwamish AOC3 7Composite 21	



<b>Photo No.:</b>	<b>215</b>
<b>Date:</b>	2-28-18
<b>Description:</b> Duwamish AOC3 Composite 22	



<b>Photo No.:</b>	<b>216</b>
<b>Date:</b>	2-28-18
<b>Description:</b> Duwamish AOC3 Composite 23	



<b>Photo No.:</b>	<b>217</b>
<b>Date:</b>	3-5-18
<b>Description:</b> Duwamish AOC3 Composite 24	



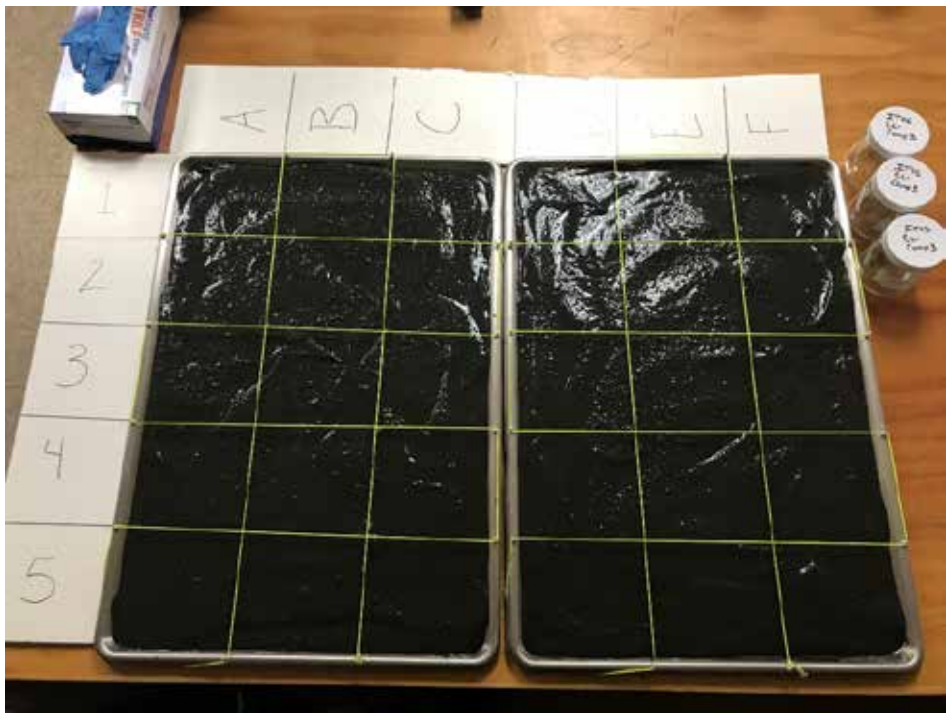
**Photo No.:** 1  
**Date:** 7.2.2018  
**Description:**  
Duwamish AOC3  
IT45 CL-Comp1



**Photo No.:** 2  
**Date:** 7.3.18  
**Description:**  
Duwamish AOC3  
IT45 CL-Comp2



**Photo No.:** 3  
**Date:** 7.2.2018  
**Description:**  
 Duwamish AOC3  
 IT45 CL-Comp3



**Photo No.:** 4  
**Date:** 6.19.18  
**Description:**  
 Duwamish AOC3  
 B1-Comp1



**Photo No.:** 5  
**Date:** 6.19.18  
**Description:**  
Duwamish AOC3  
B1-Comp1 FD



**Photo No.:** 6  
**Date:** 6.19.18  
**Description:**  
Duwamish AOC3  
B1-Comp2





<b>Photo No.:</b>	<b>7</b>
<b>Date:</b>	6.19.18
<b>Description:</b> Duwamish AOC3 B1-Comp2 FD	



<b>Photo No.:</b>	<b>8</b>
<b>Date:</b>	6.19.18
<b>Description:</b> Duwamish AOC3 B1-Comp3	



**Photo No.:** 9

**Date:** 6.19.18

**Description:**  
Duwamish AOC3  
B2-Comp1



**Photo No.:** 10

**Date:** 6.19.18

**Description:**  
Duwamish AOC3  
B2-Comp2



<b>Photo No.:</b>	11
<b>Date:</b>	6.19.18
<b>Description:</b> Duwamish AOC3 B2-Comp3	



<b>Photo No.:</b>	12
<b>Date:</b>	6.20.18
<b>Description:</b> Duwamish AOC3 B3-Comp1	



**Photo No.:** 13  
**Date:** 6.20.18  
**Description:**  
Duwamish AOC3  
B3-Comp2



**Photo No.:** 14  
**Date:** 6.20.18  
**Description:**  
Duwamish AOC3  
B3-Comp3



**Photo No.:** 15  
**Date:** 6.19.18  
**Description:**  
 Duwamish AOC3  
 B4-Comp1



**Photo No.:** 16  
**Date:** 6.19.18  
**Description:**  
 Duwamish AOC3  
 B4-Comp2



<b>Photo No.:</b>	<b>17</b>
<b>Date:</b>	6.19.18
<b>Description:</b> Duwamish AOC3 B4-Comp3	



<b>Photo No.:</b>	<b>18</b>
<b>Date:</b>	6.19.18
<b>Description:</b> Duwamish AOC3 B5-Comp1	



<b>Photo No.:</b>	<b>19</b>
<b>Date:</b>	6.19.18
<b>Description:</b> Duwamish AOC3 B5-Comp2	



<b>Photo No.:</b>	<b>20</b>
<b>Date:</b>	6.19.18
<b>Description:</b> Duwamish AOC3 B5-Comp3	



<b>Photo No.:</b>	<b>21</b>
<b>Date:</b>	6.20.18
<b>Description:</b> Duwamish AOC3 B6-Comp1	



<b>Photo No.:</b>	<b>22</b>
<b>Date:</b>	6.20.18
<b>Description:</b> Duwamish AOC3 B6-Comp1 FD	





**Photo No.:** 23  
**Date:** 6.20.18  
**Description:**  
Duwamish AOC3  
B6-Comp2



**Photo No.:** 24  
**Date:** 6.20.18  
**Description:**  
Duwamish AOC3  
B6-Comp2 FD





**Photo No.:** 25  
**Date:** 6.20.18  
**Description:**  
Duwamish AOC3  
B6-Comp3



**Photo No.:** 26  
**Date:** 6.20.18  
**Description:**  
Duwamish AOC3  
B6-Comp3 FD



<b>Photo No.:</b>	<b>27</b>	
<b>Date:</b>	6.20.18	
<b>Description:</b> Duwamish AOC3 B7-Comp1		

<b>Photo No.:</b>	<b>28</b>	
<b>Date:</b>	6.20.18	
<b>Description:</b> Duwamish AOC3 B7-Comp2		

<b>Photo No.:</b>	<b>29</b>
<b>Date:</b>	6.20.18
<b>Description:</b> Duwamish AOC3 B7-Comp3	



<b>Photo No.:</b>	<b>30</b>
<b>Date:</b>	6.20.18
<b>Description:</b> Duwamish AOC3 B8-Comp1	




<b>Photo No.:</b>	<b>31</b>
<b>Date:</b>	6.20.18
<b>Description:</b> Duwamish AOC3 B8-Comp2	





<b>Photo No.:</b>	<b>32</b>
<b>Date:</b>	6.20.18
<b>Description:</b> Duwamish AOC3 B8-Comp3	



<b>Photo No.:</b>	<b>33</b>	
<b>Date:</b>	6.14.18	
<b>Description:</b> Duwamish AOC3 CL01+BP1		

<b>Photo No.:</b>	<b>34</b>	
<b>Date:</b>	6.13.18	
<b>Description:</b> Duwamish AOC3 CL02+BP2		

<b>Photo No.:</b>	<b>35</b>	
<b>Date:</b>	6.13.18	
<b>Description:</b> Duwamish AOC3 CL03+BP3		
<b>Photo No.:</b>	<b>36</b>	
<b>Date:</b>	6.12.18	
<b>Description:</b> Duwamish AOC3 CL04		


<b>Photo No.:</b>	<b>37</b>
<b>Date:</b>	6.13.18
<b>Description:</b> Duwamish AOC3 CL05	






<b>Photo No.:</b>	<b>38</b>
<b>Date:</b>	6.13.18
<b>Description:</b> Duwamish AOC3 CL07+BP4	





<b>Photo No.:</b>	<b>39</b>
<b>Date:</b>	6.13.18
<b>Description:</b> Duwamish AOC3 CL08+BP4	
	

<b>Photo No.:</b>	<b>40</b>
<b>Date:</b>	6.16.18
<b>Description:</b> Duwamish AOC3 CL10+BP6	
	

<b>Photo No.:</b>	41	
<b>Date:</b>	6.15.18	
<b>Description:</b> Duwamish AOC3 CL12		
<b>Photo No.:</b>	42	
<b>Date:</b>	6.16.18	
<b>Description:</b> Duwamish AOC3 CL14		

<b>Photo No.:</b>	<b>43</b>
<b>Date:</b>	6.15.18
<b>Description:</b> Duwamish AOC3 CL15+BP7+BP8	



<b>Photo No.:</b>	<b>44</b>
<b>Date:</b>	6.15.18
<b>Description:</b> Duwamish AOC3 CL16	



**Photo No.:** 45  
**Date:** 6.14.18  
**Description:**  
Duwamish AOC3  
BNK1-1



**Photo No.:** 46  
**Date:** 6.13.18  
**Description:**  
Duwamish AOC3  
BNK3-2



<b>Photo No.:</b>	<b>47</b>
<b>Date:</b>	6.14.18
<b>Description:</b> Duwamish AOC3 BNK3-3	



<b>Photo No.:</b>	<b>48</b>
<b>Date:</b>	6.12.18
<b>Description:</b> Duwamish AOC3 BNK5-3	



<b>Photo No.:</b>	<b>49</b>
<b>Date:</b>	<b>6.15.18</b>

**Description:**  
Duwamish AOC3  
BNK6-1



**COCs**

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: LDW AUC3  
 Project Number: Task 4  
 Contact Name: Amiara Vandervoort  
 Sampled By: TD, RM, KM

Ship to: ARI  
 Attn: Sue Dunnahoo  
 Shipping Date: 2/22/18  
 Shipper: hand delivered  
 Airbill Number:                       
 Form filled out by: KM  
 Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [jar tag number(s)]
					composite	archive	TS/TOC	metals	ANIONS, SVOCs, PAHs	Grain Size	
2/22/18	0905	LDW18-SS-001	2	sediment	X	X					
	0921	LDW18-SS-002	2		X	X					
	0939	LDW18-SS-003	2		X	X					
	0952	LDW18-SS-004	2		X	X	X	X	X		extra grain size jar for GC
	1029	LDW18-SS-008	2		X	X					
	1043	LDW18-SS-007	2		X	X					
	1056	LDW18-SS-006	2		X	X					
	1116	LDW18-SS-025	2		X	X					
	1132	LDW18-SS-026	2		X	X					
	1144	LDW18-SS-027	2		X	X					
	1230	LDW18-SS-032	2		X	X					
	1240	LDW18-SS-033	2		X	X					
<b>Total Number of Containers</b>			<b>29</b>	<b>Purchase Order / Statement of Work #</b>							

1) Released by: <u>Kate McPoole</u> Print name: <u>Kate McPoole</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>2/22/18 1610</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>2/22/18 1610</u>	2) Released by: <u>                    </u> Print name: <u>                    </u> Signature: <u>                    </u> Company: <u>                    </u> Date/Time: <u>                    </u>	2) Rec'd by: <u>                    </u> Company: <u>                    </u> Date/Time: <u>                    </u>
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 Suite 401  
 Seattle, WA 98119  
 Tel: (206) 378-1364  
 Fax: (206) 217-9343

**To be completed by Laboratory upon sample receipt:**

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



# CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: LOW AOC3  
 Project Number: Task 4  
 Contact Name: Amara Vanderroort  
 Sampled By: TD, RM, KM

Ship to: ARI  
 Attn: Sue Dunnington  
 Shipping Date: 2/22/18  
 Shipper: hand delivered  
 Airbill Number: \_\_\_\_\_  
 Form filled out by: KM  
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					composite	archive	TS/TOC	metals	Anions, SVOCs, PAHs	Grain Size	
2/22/18	1250	LDW18-SS-034	2	sediment	X	X					
	1258	LDW18-SS-035	2		X	X					
	1308	LDW18-SS-036	2		X	X					
	1320	LDW18-SS-037	2		X	X					
	1342	LDW18-SS-042	2		X	X					
	1351	LDW18-SS-043	2		X	X					
	1410	LDW18-SS-051	2		X	X					
	1431	LDW18-SS-064	2		X	X	X	X	X	X	composite + archive only
	1441	LDW18-SS-069	6		X	X	X	X	X	X	
	1441	LDW18-SS-069-FD	6		X	X	X	X	X	X	
			16M	2/22/18							
<b>Total Number of Containers</b>			28	<b>Purchase Order / Statement of Work #</b>							

1) Released by: _____ Print name: <u>Kate McPeak</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>2/22/18 1610</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>2/22/18 1610</u>	2) Released by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: _____ Company: _____ Date/Time: _____
--	--	--	--

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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

NO 2994

Project/Client Name: LDW AOC 3  
 Project Number: Task 4  
 Contact Name: Amara Vandervort  
 Sampled By: JK, RM, KM

Ship to: AKI  
 Attn: Sue Durnihco  
 Shipper: hand delivered  
 Form filled out by: KM  
 Shipping Date: 2/23/18  
 Airbill Number: ---  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [jar tag number(s)]
					Composite	archive					
2/23/18	0821	LDW18-SS-038	2	Sediment	X	X					
	0854	LDW18-SS-065	2		X	X					
	<del>0905</del>	<del>LDW18-SS-066</del>	<del>2</del>		<del>X</del>	<del>X</del>					<del>not collected</del>
	0920	LDW18-SS-067	2		X	X					
	0936	LDW18-SS-068	2		X	X					
	0956	LDW18-SS-106	2		X	X					
	1018	LDW18-SS-107	2		X	X					
	1054	LDW18-SS-108	2		X	X					
	1104	LDW18-SS-109	2		X	X					
	1114	LDW18-SS-110	2		X	X					
	1120	LDW18-SS-111	2		X	X					
	1128	LDW18-SS-112	2		X	X					

Total Number of Containers: 22 Purchase Order / Statement of Work #

1) Released by: Print name: <u>Kate McPeak</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>2/23/18 1620</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>AKI</u> Date/Time: <u>2/23/18 1620</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
--	---	--	--

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**To be completed by Laboratory upon sample receipt:**

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: LDW AOC3  
 Project Number: Task 4  
 Contact Name: Annara Vanderroot  
 Sampled By: TR, RM, KM

Ship to: ARI  
 Attn: Sue Dunning  
 Shipping Date: 2/23/18  
 Shipper: hand delivered  
 Airbill Number:           
 Form filled out by: KM  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Composite	Archive					
2/23/18	1153	LDW18-SS-113	2	Sediment	X	X					
	1208	LDW18-SS-115	2		X	X					
	1232	LDW18-SS-117	2		X	X					
	1312	LDW18-SS-118	2		X	X					
	1321	LDW18-SS-119	2		X	X					
	1327	LDW18-SS-120	2		X	X					
	1340	LDW18-SS-121	2		X	X					
	1350	LDW18-SS-122	2		X	X					
	1405	LDW18-SS-124	2		X	X					
	1414	LDW18-SS-125	2		X	X					
	1433	LDW18-SS-126	2		X	X					
I	1439	LDW18-SS-114	2	I	X	X					
<b>Total Number of Containers</b>			<b>24</b>	<b>Purchase Order / Statement of Work #</b>							

1) Released by: Print name: <u>Kate McPeak</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>2/23/18 1620</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>02/23/18 1620</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
--	--	--	--

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**To be completed by Laboratory upon sample receipt:**

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

NO 2934

Project/Client Name: AOC 3 TASK 4 - SEDIMENT  
 Project Number: \_\_\_\_\_  
 Contact Name: AMARA VANDERVOORT  
 Sampled By: TD, NM

Ship to: ARI  
 Attn: SUE HUMPHREY Shipping Date: 02.23.18  
 Shipper: HARD DELD Airbill Number: \_\_\_\_\_  
 Form filled out by: TD Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)											Comments / Instructions (Jar tag number(s))
					GRAIN SIZE ATTNIVE	TS/TOC	METALS	PCB ANALYSIS	SUDS/PAN	EX-SITU PRAWATER	PCB CONGENERS	DIOXIN FURANS	BLACK CARBON			
02.23.18	0933	LDW18-SSOT-T107PARK	6	SEDIMENT	✓	✓	✓					✓				
	0933	LDW18-SSOT-T107PARK FD	6		✓	✓	✓					✓				
	1148	LDW18-SS-179	8		✓	✓	✓		✓	✓			✓	EXTRA VOL. FOR GRAIN SIZE ETC		
	1239	LDW18-SSOT-5HAWES	7		✓	✓	✓					✓				
	1326	LDW18-SS-184	7		✓	✓	✓		✓	✓			✓			
	1403	LDW18-SSOT-2109-1	6		✓	✓	✓					✓				
	1477	LDW18-SSOT-2109-2	6		✓	✓	✓					✓				
	1515	LDW18-SS-169	7		✓	✓	✓		✓	✓			✓			
Total Number of Containers			53	Purchase Order / Statement of Work #												

1) Released by: Print name: <u>THAI DO</u> Signature: <u>[Signature]</u> Company: <u>WINDWARD ENV.</u> Date/Time: <u>02.23.18 / 1620</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>02/23/18 1620</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
--	--	--	--

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**To be completed by Laboratory upon sample receipt:**

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

1 of 2

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

2935

Project/Client Name: AOC3  
 Project Number: TASK 4  
 Contact Name: AMARA VAUDEVORT  
 Sampled By: NM, TD

Ship to: ARI  
 Attn: SUE DUBBLED  
 Shipper: HAND DEL'D  
 Form filled out by: TDO  
 Shipping Date: 02.26.18  
 Airbill Number: \_\_\_\_\_  
 Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					COMPOSITE	ARCHIVE	TS/TC	Metals	PCB-Aroclor	SULF/PARTS	
02.26.18	0750	LDW18-55-005	2	SEDIMENT	X	X					
	0809	-009	2		X	X					
	0825	-015	2		X	X					
	0850	-010	2		X	X					
	0913	-014	2		X	X					
	0941	-039	2		X	X					
	0950	-040	6		X	X	X	X	X	X	
	1015	-045	2		X	X					
	1028	-046	2		X	X					
	1045	-047	2		X	X					
	1105	-048	2		X	X					
	1133	-011	2		X	X					

Total Number of Containers: \_\_\_\_\_ Purchase Order / Statement of Work # \_\_\_\_\_

1) Released by: Print name: <u>THAI DO</u> Signature: _____ Company: <u>WINDWARD ENV</u> Date/Time: <u>02.26.18/1630</u>	1) Rec'd by: <u>Stephanie Fisher</u> Company: <u>ARI</u> Date/Time: <u>2/26/18 1630</u>	2) Released by: Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: Company: _____ Date/Time: _____
--	--	--	--

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### To be completed by Laboratory upon sample receipt:

Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

2 of 2

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 2975

Project/Client Name: ADC3  
 Project Number: TASK4  
 Contact Name: AMARA VANDERVOORT  
 Sampled By: NM, TD

Ship to: ARI  
 Attn: SUE DUNN HED  
 Shipper: HAND DEL'D  
 Form filled out by: TD  
 Shipping Date: 02.26.18  
 Airbill Number: \_\_\_\_\_  
 Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					COMPOSITE	ARCHIVE					
02.26.18	1150	LDW18-SS-012	2	SEDIMENT	X	X					
	1355	-123	2		X	X					
	1414	-127	2		X	X					
	1426	-128	2		X	X					
	1439	-129	2		X	X					
	1504	-131	2		X	X					
	1525	-132	2		X	X					
	1539	-133	2		X	X					
Total Number of Containers				Purchase Order / Statement of Work #							

1) Released by: Print name: <u>THOMAS</u> Signature: <u>[Signature]</u> Company: <u>WINDWARD ENV</u> Date/Time: <u>02.26.18/1638</u>	1) Rec'd by: <u>Stephanie Fisher</u> Company: <u>ARI</u> Date/Time: <u>2/26/18 1638</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
--	--	--	--

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 Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

1 of 2

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

2976

Project/Client Name: AOC3  
 Project Number: TASK 4  
 Contact Name: ANARA VANDERVOORT  
 Sampled By: NM, RM, TD

Ship to: ARI  
 Attn: SUE DUNN HOOD  
 Shipping Date: 02.27.18  
 Shipper: HAUD DEL'D  
 Airbill Number: \_\_\_\_\_  
 Form filled out by: TD  
 Turnaround requested: SD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions [Jar tag number(s)]	
					COMPOSITE	ARCHIVE	TS/TOC	Metals	ANIONS	SULF/PHOS	GRAIN SIZE		DISSOLVED
0227.18	0825	LDW18-SS-093	2	SED	X	X							
	0855	LDW18-SSOT-Seattle Dist/Cl	6			X	X	X	X	X			
	0952	LDW18-SS-145	2		X	X							
	1011	-149	2		X	X							
	1027	-150	2		X	X							
	1043	-151	2		X	X							
	1100	-152	2		X	X							
	1110	-154	2		X	X							
	1124	-153	2		X	X							
	1152	-159	2		X	X							
	1210	-160	2		X	X							
	1231	-158	2		X	X							
Total Number of Containers				Purchase Order / Statement of Work #									

1) Released by: Print name: <u>THAI TD</u> Signature: <u>[Signature]</u> Company: <u>WINDWARD ENV</u> Date/Time: <u>02.27.18 / 1608</u>	1) Rec'd by: <u>Brandon Fisk</u> <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>02/27/18 1608</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
---	--	--	--

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Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

2977

Project/Client Name: AOC3  
 Project Number: TASK 4  
 Contact Name: AMARA VANDERVORT  
 Sampled By: NM, RM, TD

Ship to: ARI  
 Attn: SUE DURMITHO  
 Shipper: HALD DEL'D  
 Form filled out by: TD  
 Shipping Date: 02.27.18  
 Airbill Number:             
 Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions [Jar tag number(s)]
					COMPOSITE	ARCHIVE	TS/TC	METALS	ARACERS	SUDS/PAN	GRAIN SIZE	
02.27.18	1245	LDMB-SS-1573	2	SED	X	X						
	1300	-156	2		X	X						
	1311	-161	6		X	X	XX	X	X			
	1342	-162	2		X	X						
	1355	-163	2		X	X						
	1433	-164	2		X	X						
	1445	-155	2		X	X						
/					/					/		

Total Number of Containers:            Purchase Order / Statement of Work #           

1) Released by: Print name: <u>THAI DO</u> Signature: <u>[Signature]</u> Company: <u>WINDWARD ENV</u> Date/Time: <u>02.27.18 / 1608</u>	1) Rec'd by: <u>Brandon Fisk</u> <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>2/27/18 1608</u>	2) Released by: Print name: <u>          </u> Signature: <u>          </u> Company: <u>          </u> Date/Time: <u>          </u>	2) Rec'd by: Print name: <u>          </u> Signature: <u>          </u> Company: <u>          </u> Date/Time: <u>          </u>
---	---	--	---

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Condition upon receipt: <u>          </u>	Time of receipt: <u>          </u>
Cooler temperature: <u>          </u>	Received by: <u>          </u>



1 of 2

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3001

Project/Client Name: LOW AOC3  
 Project Number: task 4  
 Contact Name: Amaro Vandervorst  
 Sampled By: TR, RM, KM

Ship to: ARI  
 Attn: Sve Dvanitoo  
 Shipper: hand delivered  
 Form filled out by: KM  
 Shipping Date: 2/28/18  
 Airbill Number: \_\_\_\_\_  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [jar tag number(s)]
					Composite	archive	TS/TOC	Metals	Arsenicals, SVOCs, PAHs	Grain Size	
2/28/18	0833	LOW18-SS-134	2	Sediment	X	X					
	0843	-135	2		X	X					
	0852	-136	2		X	✓					
	0922	-166	2		X	X					
	0930	-167	2		X	X					
	0940	-168	2		X	X					
	0958	-165	2		X	X					
	1015	-140	2		X	X					
	1025	-139	2		X	X					
	1034	-138	2		X	X					
	1042	-137	2		X	X					
	1122	-104	2		X	X					

Total Number of Containers: 24 Purchase Order / Statement of Work # \_\_\_\_\_

1) Released by: _____ Print name: <u>Kate McPook</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>2/28/18</u> <u>1625</u>	1) Rec'd by: <u>Brandon Fitt</u> <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>2/28/18</u> <u>1625</u>	2) Released by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____
---	--	--	---

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Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

2 of 2

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3002

Project/Client Name: LDW AOC3  
 Project Number: task 4  
 Contact Name: Amara Vanderroot  
 Sampled By: JR, RM, KM

Ship to: ARI  
 Attn: Sue Durnibco  
 Shipper: hand delivered  
 Form filled out by: KM  
 Shipping Date: 2/28/18  
 Airbill Number: ---  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [jar tag number(s)]
					composite	archive	TS/TOC	Metals	Anions, SVOCs, PAHs	Grain Size	
2/28/18	1133	LDW18-SS-105	2	Sediment	X	X					
	1153	-102	2		X	X					
	1204	-101	6		X	X	X	X	X	X	
	1237	-100	2		X	X					
	1251	-098	2		X	X					
	1306	-092	2		X	X					
	1320	-091	6		X	X	X	X	X	X	
	1337	-089	2		X	X					
	1348	-087	2		X	X					
	1358	-085	2		X	X					
	1429	-095	2		X	X					
	1442	-090	2		X	X					

Total Number of Containers: 32 Purchase Order / Statement of Work #

1) Released by: <u>Kate McLoock</u>	1) Rec'd by: <u>Brendon Fick</u>	2) Released by:	2) Rec'd by:
Print name: <u>Kate McLoock</u>	Company: <u>ARI</u>	Print name:	Company:
Signature: <u>[Signature]</u>	Company: <u>[Signature]</u>	Signature:	Company:
Date/Time: <u>2/28/18 1625</u>	Date/Time: <u>2/28/18 1625</u>	Date/Time:	Date/Time:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

NO 3003

Project/Client Name: AOC3  
 Project Number: TASK 4  
 Contact Name: AMARA VANDERVOORT  
 Sampled By: NM, RC, TD

Ship to: ARI  
 Attn: SUE DUNN HOD  
 Shipper: WARD DEL'D  
 Form filled out by: TD  
 Shipping Date: 02.28.18  
 Airbill Number: ---  
 Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)											Comments / Instructions [Jar tag number(s)]
					BLACK CARBON	PCB CARBON	GRAIN SIZE	ARCHIVE	METALS	TS/TOL	PCB ANALYSE	SNDL/PAH	EX-SITU	FOREWATER	DIXON/FURN	
02.28.18	0829	LDW18-SS-1B7	7	SED	X	X	X	X	X	X	X	X	X	X		
	0829	LDW18-SS-1B7-FD	7		X	X	X	X	X	X	X	X	X	X		
	0915	LDW18-SS-1B8	7		X	X	X	X	X	X	X	X	X	X		
	0944	LDW18-SSOT-DitchZ	6				X	X	X	X	X	X			X	
	1015	LDW18-SSOT-DWSDB	6				X	X	X	X	X	X			X	
	1039	LDW18-SSOT-2100A-1	6				X	X	X	X	X	X			X	
	1101	LDW18-SSOT-2100A-2	6				X	X	X	X	X	X			X	
	1123	LDW18-SSOT-2101	6				X	X	X	X	X	X			X	
	1209	LDW18-SS-1B6	7		X	X	X	X	X	X	X	X	X			
	1277	LDW18-SS-1B5	6		X	X	X	X	X	X	X	X	X			
	1323	LDW18-SSOT-Clean Swabs B	6				X	X	X	X	X	X			X	
	1352	LDW18-SSOT-Dawn Foods	6				X	X	X	X	X	X			X	
<b>Total Number of Containers</b>				<b>Purchase Order / Statement of Work #</b>												

1) Released by:	1) Rec'd by: <u>Bronson Fisk</u>	2) Released by:	2) Rec'd by:
Print name: <u>THAI TO</u>	Signature: <u>[Signature]</u>	Print name:	Signature:
Company: <u>WINDWARD ENV</u>	Company: <u>ARI</u>	Company:	Company:
Date/Time: <u>02.28.18/1625</u>	Date/Time: <u>2/28/18 1625</u>	Date/Time:	Date/Time:

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Condition upon receipt: <u>---</u>	Time of receipt: <u>---</u>
Cooler temperature: <u>---</u>	Received by: <u>---</u>



# CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: LDW AOC3  
 Project Number: task 4  
 Contact Name: Amanda Vandervort  
 Sampled By: JR, RM, KM

Ship to: ARI  
 Attn: Sue Dunnahoo  
 Shipper: hand delivered  
 Form filled out by: KM  
 Shipping Date: 3/1/18  
 Airbill Number: \_\_\_\_\_  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [jar tag number(s)]
					composite	archive	TS/TOC	Metals	Anions, SVOCs, PAH	Grain Size	
3/1/18	0822	LDW18-SS-094	2	Sediment	X	X					
	0842	- 116	2		X	X					
	0928	- 130	6		X	X	X	X	X	X	
	1000	- 142	2		X	X					
	1008	- 143	6		X	X	X	X	X	X	
	1023	- 144	2		X	X					
	1032	- 148	2		X	X					
	1042	- 146	2		X	X					
	1107	- 147	2		X	X					
	1155	- 141	2		X	X					
	1218	- 103	2		X	X					
	1230	- 099	2		X	X					
<b>Total Number of Containers</b>			<b>32</b>	<b>Purchase Order / Statement of Work #</b>							

1) Released by: _____ Print name: <u>Kate M. Peck</u> Signature: _____ Company: <u>Windward</u> Date/Time: <u>3/1/18 1620</u>	1) Rec'd by: <u>Byrleiden Fisk</u> <del>_____</del> Company: <u>ARI</u> Date/Time: <u>3/1/18 1620</u>	2) Released by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____
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**To be completed by Laboratory upon sample receipt:**

Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

2 of 3

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

10 2995

Project/Client Name: LOW AOC3  
 Project Number: task 4  
 Contact Name: Amara Vandervort  
 Sampled By: JR, RM, KM

Ship to: ARI  
 Attn: Joe Dunne  
 Shipper: hand delivered  
 Form filled out by: KM  
 Shipping Date: 3/1/18  
 Airbill Number: ---  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions [jar tag number(s)]
					Composite	archive	TS/TDC	Metals	Arsenic, SVOCs, PAHs	Grain Size		
3/1/18	1241	LOW18-SS-097	2	sediment	X	X						
	1253	-096	2		X	X						
	1305	-088	2		X	X						
	1316	-086	2	low Fick	X	X						
	1340	-070	2		X	X						
	1356	-066	2		X	X						
	1416	-031	2		X	X						
	1435	-030	2		X	X						
	1442	-029	2		X	X						
	1454	-028	2		X	X						
	0904	-050	2		X	X						
	1123	-016	2		X	X						

Total Number of Containers: 24 Purchase Order / Statement of Work #

1) Released by: Print name: <u>Kate M. Beck</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>3/1/18 1620</u>	1) Rec'd by: <u>Brydon Fick</u> Signature: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>3/1/18 1620</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Print name: Signature: Company: Date/Time:
--	--	--	---

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**To be completed by Laboratory upon sample receipt:**

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3005

Project/Client Name: ADC3  
 Project Number: TASK 4  
 Contact Name: AMARA VANDERVOORT  
 Sampled By: NM, RC, TD

Ship to: ARI  
 Attn: SUE DUNKERHOOD Shipping Date: 03.01.18  
 Shipper: HAND DEL'D Airbill Number: \_\_\_\_\_  
 Form filled out by: TD Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)											Comments / Instructions [jar tag number(s)]	
					BLACK CARBON	PCB CONCENTRATIONS	GRAIN SIZE	ARCHIVE	METALS	TS/TOL	PCB AROCLOR	SULCS/PAHS	EX-SITU	POPULATED	DIOXINS/FURANS		
03.01.18	0803	LDW18-SS-18Z	6	SED	X	X	X	X		X	X		X				
	0839	LDW18-SS-17B	7		X	X	X	X	X	X	X	X	X				
	0839	LDW18-SS-17B-FD	7		X	X	X	X	X	X	X	X	X				
	0925	LDW18-SS-176	6		X	X	X	X		X	X		X				
	0951	LDW18-SS-175	6		X	X	X	X		X	X		X				
	1028	LDW18-SS-173	6		X	X	X	X		X	X		X				
	1048	LDW18-S-171	6		X	X	X	X		X	X		X				
	1222	LDW18-SS-172	6		X	X	X	X		X	X		X				
	1310	LDW18-SS-170	7		X	X	X	X	X	X	X	X	X				
	1334	LDW18-SS-174	7		X	X	X	X	X	X	X	X	X				
	1419	LDW18-SSOT-2507	6				X	X	X	X	X				X		
	1516	LDW18-SSOT-FedGtrs	6				X	X	X	X	X				X		

Total Number of Containers: \_\_\_\_\_ Purchase Order / Statement of Work # \_\_\_\_\_

1) Released by: _____	1) Rec'd by: <u>Brigdon Fick</u>	2) Released by: _____	2) Rec'd by: _____
Print name: <u>THAI DO</u>	Company: <u>ARI</u>	Print name: _____	Company: _____
Signature: <u>[Signature]</u>	Date/Time: <u>3/1/18 1620</u>	Signature: _____	Date/Time: _____
Company: <u>WILDDUCK ENV</u>		Company: _____	
Date/Time: <u>03.01.18/1620</u>		Date/Time: _____	

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Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____



1 of 3

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

212 2984

Project/Client Name: AOC3  
 Project Number: TASK 4  
 Contact Name: AMARA VANDERVOORT  
 Sampled By: KM, JR, RM

Ship to: ARI  
 Attn: SUE DUMPHOOD Shipping Date: 03.02.18  
 Shipper: HARD DEL'D Airbill Number: -  
 Form filled out by: KM Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					COMPOSITE	ARCHIVE					
03.02.18	0900	LOW18-SS-080 <i>km</i>	2	SED	X	X					
	0911	078	2		X	X					
	0926	084	2		X	X					
	0937	077	2		X	X					
	0951	075	2		X	X					
	1001	076	2		X	X					
	1014	074	2		X	X					
	1029	073	2		X	X					
	1044	071	2		X	X					
	1101	083	2		X	X					
	1118	079	2		X	X					
	1214	013	2		X	X					
<b>Total Number of Containers</b>			<b>24</b>	<b>Purchase Order / Statement of Work #</b>							

1) Released by: Print name: <u>KATE MURPHY</u> Signature: <u>[Signature]</u> Company: <u>WINDWARD</u> Date/Time: <u>03.02.18 / 1700</u>	1) Rec'd by: <u>[Signature]</u> Print name: <u>Sue Dumphood</u> Company: <u>ARI</u> Date/Time: <u>03/02/18 1700</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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**To be completed by Laboratory upon sample receipt:**

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 2998

Project/Client Name: AOC3  
 Project Number: TASK 4  
 Contact Name: AMARA VANDERVOORT  
 Sampled By: KM, JR, RM

Ship to: ARI  
 Attn: SUE DOWNHOD Shipping Date: 03.02.18  
 Shipper: HAND DEL'D Airbill Number: ---  
 Form filled out by: KM Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					COMPOSITE	ARCHIVE					
03.02.12	1225	LOW18-SS-017	2	SEP	X	X					
	1239	018	2		X	X					
	1249	020	2		X	X					
	1301	019	2		X	X					
	1311	021	2		X	X					
	1321	022	2		X	X					
	1333	024	2		X	X					
	1358	044	2		X	X					
	1407	053	2		X	X					
	1444	055	2		X	X					
	1456	056	2		X	X					
	1509	057	2		X	X					
<b>Total Number of Containers</b>			<b>24</b>	<b>Purchase Order / Statement of Work #</b>							

1) Released by: Print name: <u>KATE MC PEEK</u> Signature: <u>[Signature]</u> Company: <u>WINDWARD</u> Date/Time: <u>03.02.18 1700</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>03/02/18 1700</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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**To be completed by Laboratory upon sample receipt:**

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 2999

Project/Client Name: ADCB  
 Project Number: TASK 4  
 Contact Name: AMARA VANDERVOORT  
 Sampled By: KM, JR, RM

Ship to: ARI  
 Attn: SUE DUNN/HDD Shipping Date: 03.02.18  
 Shipper: HARD DEL'D Airbill Number: ---  
 Form filled out by: KM Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Composite	Archive					
03.02.18	1524	LOW18-SS-058	2	SED	X	X					
L	1534	-054	2	L	X	X					
/											
Total Number of Containers			4	Purchase Order / Statement of Work #							

1) Released by:	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>KATE Mc PEEK</u>	<u>[Signature]</u>	Print name:	
Signature: <u>[Signature]</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>WINDWARD</u>	Date/Time: <u>03.02.18 1700</u>	Company:	Date/Time:

\* Distribution: White copies accompany shipment; yellow retained by consignor.



200 West Mercer Street  
 Suite 401  
 Seattle, WA 98119  
 Tel: (206) 378-1364  
 Fax: (206) 217-9343

**To be completed by Laboratory upon sample receipt:**

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: AOC3  
 Project Number: TASK 4  
 Contact Name: AMARA VANDERVORT  
 Sampled By: NM, TD, RC

Ship to: ARI  
 Attn: SUE DUNN HOD Shipping Date: 03.02.18  
 Shipper: HAND DEL'D Airbill Number: ---  
 Form filled out by: TD Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)											Comments / Instructions [Jar tag number(s)]
					BLACK CARBON	PCB CONGELERS	GRAIN SIZE	ARCHIVE	METALS	TS/TOC	PCB AROCLORS	SIDS / PAHs	ER-SITU PORE WATER	PIXINS / FURANS	COMPOSITE	
03.02.18	0749	LDW18-SS-177	6	SED	X	X	X	X	X	X	X	X	X	X		
	0802	LDW18-SS-1072	2					X	X	X	X	X	X	X	X	
	0826	LDW18-SS-T-Glacion NW-CBP 6	6				X	X	X	X	X	X	X	X	X	
	0849	LDW18-SS-081	2					X	X	X	X	X	X	X	X	
	0910	LDW18-SS-082	2					X	X	X	X	X	X	X	X	
	1131	LDW18-SS-187	7		X	X	X	X	X	X	X	X	X	X	X	
	1224	LDW18-SS-183	7		X	X	X	X	X	X	X	X	X	X	X	
	1301	LDW18-SS-061	2					X	X	X	X	X	X	X	X	
	1316	LDW18-SS-049	2					X	X	X	X	X	X	X	X	
	1338	LDW18-SS-060	2					X	X	X	X	X	X	X	X	
	1352	LDW18-SS-059	2					X	X	X	X	X	X	X	X	
	1410	LDW18-SS-1062	2					X	X	X	X	X	X	X	X	
Total Number of Containers			42	Purchase Order / Statement of Work #												

1) Released by: <u>THAN TD</u> Print name: <u>THAN TD</u> Signature: <u>[Signature]</u> Company: <u>WINDWARD</u> Date/Time: <u>03.02.18/1700</u>	1) Rec'd by: <u>[Signature]</u> Print name: <u>SARASWATHI</u> Company: <u>ARI</u> Date/Time: <u>03/02/18 1700</u>	2) Released by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____
--	--	--	---

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2 of 2

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

NO 3007

Project/Client Name: PO13  
 Project Number: TASK 4  
 Contact Name: AMARA VAUGHN  
 Sampled By: NM, TD, RC

Ship to: ARI  
 Attn: SUE DUMPHOD  
 Shipper: HAND DEL'D  
 Form filled out by: TD  
 Shipping Date: 03.02.18  
 Airbill Number: ---  
 Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions [jar tag number(s)]
					COMPOSITE	ARCHIVE	TS/TOC	MUTALS	AROMATIC SUDBS/PMS	GRAIN SIZE	DIOXIN/FURAN	
03/02/18	1426	LDW18-SS-0063	2	SED	X	X						
	1509	LDW18-SOT-2509	6	↓		X	X	X	X	X	X	
03/02/18	1509	LDW18-SS-0057	6	SED	X	X	X	X	X	X		
Total Number of Containers			14	Purchase Order / Statement of Work #								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: <u>THAN TD</u>	<u>[Signature]</u>	Print name:	
Signature: <u>[Signature]</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>WINDWARD</u>	Date/Time: <u>03/02/18 1700</u>	Company:	Date/Time:

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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

of 1

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3008

Project/Client Name: AOC3

Ship to: ARI

Project Number: TASK 4

Attn: SUE DUNN HOD

Shipping Date: 03.08.18

Contact Name: AMARA VANDERVORT

Shipper: HAND DEL'D

Airbill Number: \_\_\_\_\_

Sampled By: TD

Form filled out by: TD

Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions [Jar tag number(s)]	
					COMPOSITE	ARCHIVE	TS/TC	METALS	ANIONS/SULF/PANB	GRAIN SIZE	DISSOLV/PURMS		
<u>03.08.18</u>	<u>0946</u>	<u>LDW18-SS-139</u>	<u>2</u>	<u>SED.</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
<u>↓</u>	<u>0907</u>	<u>LDW18-SS-DELTA Marine</u>	<u>6</u>	<u>↓</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
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<b>Total Number of Containers</b>			<u>0</u>	<b>Purchase Order / Statement of Work #</b>									

1) Released by: Print name: <u>THAI DO</u> Signature: <u>[Signature]</u> Company: <u>WINDWARD ENV.</u> Date/Time: <u>03.08.18/1610</u>	1) Rec'd by: <u>Stephanie Fisher</u> <u>William Fisher</u> Company: <u>ARI</u> Date/Time: <u>3/8/18 1610</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
--	---	--	--

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3058

Project/Client Name: LDW AOC 3  
 Project Number: Task 4  
 Contact Name: Amara Vanderwilt  
 Sampled By: AE/AV

Ship to: ARI  
 Attn: Sue Dunlap  
 Shipper: hand delivered  
 Form filled out by: AV  
 Shipping Date: 2/28/18  
 Airbill Number: \_\_\_\_\_  
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions (Jar tag number(s))
					Pb/BI	PAT	Arsenic TOC/TS	Dioxin Furans	Grain Size	Black Carbon	Archae	
2/28/18	1302	LDW18-SS-Comp02	6	Sediment	X	X	X	X	X	X		
↓	1330	LDW18-SS-Comp18	6	Sediment	X	X	X	X	X	X		
↓	1355	LDW18-SS-Comp22	6	Sediment	X	X	X	X	X	X		
2/28/18	1416	LDW18-SS-Comp23	6	Sediment	X	X	X	X	X	X		
<b>Total Number of Containers</b>			<u>24</u>	<b>Purchase Order / Statement of Work #</b>								

1) Released by: <u>Amara Vanderwilt</u>	1) Rec'd by: <u>Brendan Risk</u>	2) Released by: _____	2) Rec'd by: _____
Print name: <u>Amara Vanderwilt</u>	Print name: <u>Brendan Risk</u>	Print name: _____	Print name: _____
Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Signature: _____	Signature: _____
Company: <u>Windward</u>	Company: <u>ARI</u>	Company: _____	Company: _____
Date/Time: <u>2/28/18 1423</u>	Date/Time: <u>2/28/18 1423</u>	Date/Time: _____	Date/Time: _____

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**To be completed by Laboratory upon sample receipt:**

Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3059

Project/Client Name: AOC 3  
 Project Number: Task 4  
 Contact Name: Amara Vanderwoort  
 Sampled By: AVJR

Ship to: ARI  
 Attn: Sue Dunningo Shipping Date: 3/5/18  
 Shipper: Hand Delivered Airbill Number: \_\_\_\_\_  
 Form filled out by: AVJ Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [jar tag number(s)]
					Arsenic PALL	As/TOC TS	Grain Size	Alcive	Bacterium	Dust Filter	
3/5/18	1345	LDW18-SS-Comp06	6	Sediment	X	X	X	X	X	X	
	1402	LDW18-SS-Comp07	↓	↓	X	X	X	X	X	X	
	1419	LDW18-SS-Comp10	↓	↓	X	X	X	X	X	X	
	1435	LDW18-SS-Comp17	↓	↓	X	X	X	X	X	X	
3/5/18	1452	LDW18-SS-Comp19	6	Sediment	X	X	X	X	X	X	
3/5/18	1522	LDW18-SS-Comp13	6	Sediment	X	X	X	X	X	X	
3/5/18	1537	LDW18-SS-Comp24	6	Sediment	X	X	X	X	X	X	
<b>Total Number of Containers</b>			<b>42</b>	Purchase Order / Statement of Work # <u>PO 2018-0052</u>							

1) Released by: _____	1) Rec'd by: _____	2) Released by: _____	2) Rec'd by: _____
Print name: <u>Amara Vanderwoort</u>	Print name: <u>Stephanie Fisher</u>	Print name: _____	Print name: _____
Signature: <u>[Signature]</u>	Signature: _____	Signature: _____	Signature: _____
Company: <u>Windward</u>	Company: <u>ARI</u>	Company: _____	Company: _____
Date/Time: <u>3/5/18 1552</u>	Date/Time: <u>3/5/18 1552</u>	Date/Time: _____	Date/Time: _____

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Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____



# CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3060

Project/Client Name: AOC3  
 Project Number: Task 4  
 Contact Name: Amara Vandervoort  
 Sampled By: AU/KM

Ship to: ARI  
 Attn: Sue Dunwood  
 Shipper: Ford Delivered  
 Form filled out by: AFV  
 Shipping Date: 3/6/18  
 Airbill Number: \_\_\_\_\_  
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					AVOCAL PATH	ASTROD TS	GENSET	NICHE	BACK CARBON	DIYIN TULON	
3/6/18	1040	LOW18-SS-Comp 14	6	Sediment	X	X	X	X	X	X	
	1103	LOW18-SS-Comp 15			X	X	X	X	X	X	
	1128	LOW18-SS-Comp 21			X	X	X	X	X	X	
	1146	LOW18-SS-Comp 04			X	X	X	X	X	X	
	1249	LOW18-SS-Comp 03			X	X	X	X	X	X	
	1228	LOW18-SS-Comp 08			X	X	X	X	X	X	
	1436	LOW18-SS-Comp 09			X	X	X	X	X	X	
	1457	LOW18-SS-Comp 11			X	X	X	X	X	X	
3/6/18	1519	LOW18-SS-Comp 12	6	Sediment	X	X	X	X	X	X	

**Total Number of Containers** 54 Purchase Order / Statement of Work # PO# 2018-0052

1) Released by: <u>Amara Vandervoort</u>	1) Rec'd by: <u>Brandon Fisk</u>	2) Released by: _____	2) Rec'd by: _____
Print name: _____	Print name: _____	Print name: _____	Print name: _____
Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Signature: _____	Signature: _____
Company: <u>Windward</u>	Company: <u>ARI</u>	Company: _____	Company: _____
Date/Time: <u>3/6/18 1531</u>	Date/Time: <u>3/6/18 1531</u>	Date/Time: _____	Date/Time: _____

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Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3009

Project/Client Name: AOC3  
 Project Number: Task 4  
 Contact Name: Amara Vandorvoort  
 Sampled By: T-D/SEA/AV/KM  
 3/19/18

Ship to: ARI  
 Attn: Sue Dunning Shipping Date: 3/19/18  
 Shipper: Hand Delivered Airbill Number: \_\_\_\_\_  
 Form filled out by: AFV Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					AST/TSI TOC	Aroclors/ PAH	Gran Size	Alchic	Quart Flux	Block Cast	
03/09/2018	1212	LDW18-SS-Comp20	6	Sediment	X	X	X	X	X	X	
<b>Total Number of Containers</b>			6	<b>Purchase Order / Statement of Work #</b> DO# 2018-052							

1) Released by: <u>Amara Vandorvoort</u>	1) Rec'd by: <u>Stephanie Fisher</u>	2) Released by: _____	2) Rec'd by: _____
Print name: <u>Amara Vandorvoort</u>	Print name: _____	Print name: _____	Print name: _____
Signature: <u>[Signature]</u>	Signature: _____	Signature: _____	Signature: _____
Company: <u>Windward</u>	Company: <u>ARI</u>	Company: _____	Company: _____
Date/Time: <u>3/19/18 1234</u>	Date/Time: <u>3/19/18 1234</u>	Date/Time: _____	Date/Time: _____

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Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

1 of 1

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

110 3010

Project/Client Name: AOC3  
 Project Number: Task 4  
 Contact Name: Anna Vandenoort  
 Sampled By: AV/KM

Ship to: ARI  
 Attn: Sue Ammon  
 Shipper: Hand Delivery  
 Form filled out by: AV  
 Shipping Date: 3/9/18  
 Airbill Number: \_\_\_\_\_  
 Turnaround requested: SID

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Niche						
3/9/18	1144	Woodward 1	45	Sediment	X						Freeze + HOLD
3/9/18	1144	Woodward 2	38	↓	X						↓
3/9/18	1144	Woodward 3	43	↓	X						↓
3/9/18	1144	Woodward 4	43	Sediment	X						Freeze + HOLD
Total Number of Containers			169	Purchase Order / Statement of Work # <u>PO# 2018-052</u>							

1) Released by: <u>Anna Vandenoort</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by: _____	2) Rec'd by: _____
Print name: <u>Anna Vandenoort</u>	Company: <u>ARI</u>	Print name: _____	Company: _____
Signature: <u>[Signature]</u>		Signature: _____	
Company: <u>Woodward</u>		Company: _____	
Date/Time: <u>3/9/18 1235</u>	Date/Time: <u>3/9/18 12:35</u>	Date/Time: _____	Date/Time: _____

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Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

112 3-72

Project/Client Name: LDW AOC3  
 Project Number: Task 4  
 Contact Name: Amara Vandervort  
 Sampled By: S. Replinger

Ship to: ARI  
 Attn: Sue Dunninghoo  
 Shipper: Hand Delivered  
 Form filled out by: S. Replinger  
 Shipping Date: 5-15-2018  
 Airbill Number: —  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Archive	TS/TOC	metals	Aroclors/ SVOCs/PAHs	Dioxin/ Furans	Gram Size	
5-15-2018	1623	LDW-SSOT-2510	6	sediment	X	X	X	X	X	X	
5-15-2018	1363	LDW-SSOT-2114	6	sediment	X	X	X	X	X	X	
<b>Total Number of Containers</b>			<u>12</u>	<b>Purchase Order / Statement of Work #</b>							

1) Released by:	1) Rec'd by: <u>Jacob Walter</u>	2) Released by:	2) Rec'd by:
Print name: <u>Suzanne Replinger</u>	<u>[Signature]</u>	Print name:	
Signature: <u>[Signature]</u>	Company: <u>ARI 319582</u>	Signature:	Company:
Company: <u>Windward Env.</u>	Date/Time: <u>5-15-2018 1632</u>	Company:	Date/Time:

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**To be completed by Laboratory upon sample receipt:**

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

# Chain of Custody Record & Laboratory Analysis Request



**Analytical Resources, Incorporated**  
 Analytical Chemists and Consultants  
 4611 South 134th Place, Suite 100  
 Tukwila, WA 98168  
 206-695-6200 206-695-6201 (fax)  
 www.arilabs.com

ARI Assigned Number:		Turn-around Requested:			Page: <u>1</u> of <u>3</u>		
ARI Client Company: <u>WINDWALP</u>		Phone:			Date:	Ice Present?	
Client Contact: <u>ANNA VANDERVOORT</u>		No. of Coolers:			Cooler Temps:		
Client Project Name: <u>DUWALISH</u>		Analysis Requested					Notes/Comments
Client Project #:		Samplers:					
Sample ID	Date	Time	Matrix	No. Containers			
<u>LDW18-PUPS - SS169</u>	<u>04/13/18</u>	<u>3pm</u>	<u>Polyethylene</u>	<u>1</u>			
<u>LDW18-PUPS - SS170</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>			
<u>LDW18-PUPS - SS174</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>			
<u>LDW18-PUPS - SS174(DUP)</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>			
<u>LDW18-PUPS - SS178</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>			
<u>LDW18-PUPS - SS179</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>			
<u>LDW18-PUPS - SS183</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>			
<u>LDW18-PUPS - SS184</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>			
<u>LDW18-PUPS - SS186</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>			
<u>LDW18-PUPS - SS187</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>			
Comments/Special Instructions	Relinquished by: (Signature) <u>[Signature]</u>		Received by: (Signature) <u>[Signature]</u>		Relinquished by: (Signature)		Received by: (Signature)
	Printed Name: <u>JOSE GOMEZ-EYLES</u>		Printed Name: <u>S. JUMINHO</u>		Printed Name:		Printed Name:
	Company: <u>INTEGRAL CONSULTING</u>		Company: <u>ARI</u>		Company:		Company:
	Date & Time: <u>04/13/18 3:15pm</u>		Date & Time: <u>04/13/18 15:15</u>		Date & Time:		Date & Time:

**Limits of Liability:** ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

**Sample Retention Policy:** All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

# Chain of Custody Record & Laboratory Analysis Request



**Analytical Resources, Incorporated**  
 Analytical Chemists and Consultants  
 4611 South 134th Place, Suite 100  
 Tukwila, WA 98168  
 206-695-6200 206-695-6201 (fax)  
 www.arilabs.com

ARI Assigned Number:		Turn-around Requested:			Page: <u>2</u> of <u>3</u>													
ARI Client Company: <u>WINDWARD</u>		Phone:			Date:	Ice Present?												
Client Contact: <u>ANNA VANDERVOORT</u>		No. of Coolers:			Cooler Temps:													
Client Project Name: <u>DUNAMISH</u>		Analysis Requested					Notes/Comments											
Client Project #:		Samplers:																
Sample ID	Date	Time	Matrix	No. Containers														
<u>LDW18-PUPS - SS188</u>	<u>04/13/18</u>	<u>3pm</u>	<u>Hydroxene</u>	<u>1</u>														
<u>LDW18-PUPS - SS171</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>														
<u>LDW18-PUPS - SS172</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>														
<u>LDW18-PUPS - SS173</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>														
<u>LDW18-PUPS - SS175</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>														
<u>LDW18-PUPS - SS176</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>														
<u>LDW18-PUPS - SS177</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>														
<u>LDW18-PUPS - SS180</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>														
<u>LDW18-PUPS - SS181</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>														
<u>LDW18-PUPS - SS182</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>														
Comments/Special Instructions	Relinquished by: (Signature) <u>[Signature]</u>			Received by: (Signature) <u>[Signature]</u>			Relinquished by: (Signature)			Received by: (Signature)								
	Printed Name: <u>JOSE GOMEZ-EYLES</u>			Printed Name: <u>S DUNNHOOD</u>			Printed Name:			Printed Name:								
	Company: <u>INTEGRAL CONSULTING</u>			Company: <u>ARI</u>			Company:			Company:								
	Date & Time: <u>04/13/18 3:15pm</u>			Date & Time: <u>04/13/18 15:15</u>			Date & Time:			Date & Time:								

**Limits of Liability:** ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

**Sample Retention Policy:** All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

# Chain of Custody Record & Laboratory Analysis Request



**Analytical Resources, Incorporated**  
 Analytical Chemists and Consultants  
 4611 South 134th Place, Suite 100  
 Tukwila, WA 98168  
 206-695-6200 206-695-6201 (fax)  
 www.arilabs.com

ARI Assigned Number:		Turn-around Requested:			Page: <u>3</u> of <u>3</u>		
ARI Client Company: <u>WINDWARD</u>		Phone:			Date:	Ice Present?	
Client Contact: <u>AMARA VANDERWORT</u>		No. of Coolers:			Cooler Temps:		
Client Project Name: <u>DUWAMISHA</u>		Analysis Requested					Notes/Comments
Client Project #:		Samplers:					
Sample ID	Date	Time	Matrix	No. Containers			
<u>2PW18-PUPS-SS185</u>	<u>04/13/18</u>	<u>3pm</u>	<u>polybag</u>	<u>1</u>			
<u>2PW18-PUPS-Exp-Blk</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>1</u>			
Comments/Special Instructions	Relinquished by: (Signature) <u>[Signature]</u>		Received by: (Signature) <u>[Signature]</u>		Relinquished by: (Signature)		Received by: (Signature)
	Printed Name: <u>JOSE GOMEZ EYLES</u>		Printed Name: <u>DUNNITHO</u>		Printed Name:		Printed Name:
	Company: <u>INTEGRAL CONSULTING</u>		Company: <u>ARI</u>		Company:		Company:
	Date & Time: <u>04/13/18 3:15pm</u>		Date & Time: <u>04/13/18 15:15</u>		Date & Time:		Date & Time:

**Limits of Liability:** ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

**Sample Retention Policy:** All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

NR 3103

Project/Client Name: LDW AOC3 - intertidal sed.  
 Project Number: task 4  
 Contact Name: A. Vandervort  
 Sampled By: Windward

Ship to: ARI  
 Attn: Sue Dunning Shipping Date: 6-12-2018  
 Shipper: hand-delivered Airbill Number: —  
 Form filled out by: S. Replinger Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
					Hold (opening container)	Micro	Geo	Geochem	Geochem	Geochem	
6-12-2018	1000	LDW18-1745-CLO4-A01	1	Sediment	X						
	1002	↓ ↓ ↓ -A02	1	↓	X						
	1018	↓ ↓ ↓ -A03	1	↓	X						
	1025	↓ ↓ ↓ -A04	1	↓	X						
	1048	↓ ↓ ↓ -A05	1	↓	X						
	1145	LDW18-1745-CL11-A01	1	↓	X						
	1141	↓ ↓ ↓ -A02	1	↓	X						
	1140	↓ ↓ ↓ -A03	1	↓	X						
	1052	LDW18-1745-CLO9-A01	1	↓	X						
	1035	↓ ↓ ↓ -B01	1	↓	X						
	0950	↓ ↓ ↓ -C01	1	↓	X						
	0932	↓ ↓ ↓ -C02	1	↓	X						
<b>Total Number of Containers</b>			<u>12</u>	<b>Purchase Order / Statement of Work #</b>							
1) Released by: <u>A. Hawley</u>			1) Rec'd by: <u>Jared Hawley</u>			2) Released by:			2) Rec'd by:		
Print name: <u>Amy Hawley</u>			Company: <u>ARI</u>			Print name:			Company:		
Signature: <u>[Signature]</u>			Date/Time: <u>06/12/18 1455</u>			Signature:			Date/Time:		
Company: <u>Windward</u>						Company:			Date/Time:		

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 Tel: (206) 378-1364  
 Fax: (206) 217-9343

**To be completed by Laboratory upon sample receipt:**

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



# CHAIN-OF-CUSTODY/TEST REQUEST FORM

NO 3104

Project/Client Name: LDW A003 - intertidal sediment  
 Project Number: task 4  
 Contact Name: A. Vandervort  
 Sampled By: Windward

Ship to: ARI  
 Attn: Sve Dunning  
 Shipper: hand delivered  
 Form filled out by: S. Replinger  
 Shipping Date: 6-12-2018  
 Airbill Number:             
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Hold (greening) container instructions	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
6-12-2018	1023	LDW18-IT45-CL09-C03	1	Sediment	X							
	1058	↓ ↓ ↓ -C04	1		X							
	1207	LDW18-IT45-CL13-A01	1		X							
	1205	↓ ↓ ↓ -A02	1		X							
	1224	↓ ↓ ↓ -A03	1		X							
	1218	↓ ↓ ↓ -A04	1		X							
	1140	LDW18-IT45-RP5-E03	1		X							
	1048	↓ ↓ ↓ -D03	1		X							
	1215	↓ ↓ ↓ -F01	1		X							
	0945	↓ ↓ ↓ -D02	1		X							
	0921	↓ ↓ ↓ -D01	1		X							
	1217	↓ ↓ ↓ -F05	1		X							

Total Number of Containers: 12 Purchase Order / Statement of Work #

1) Released by: <u>A. Hawley</u> Print name: <u>Holly Hawley</u> Signature: <u>A. Hawley</u> Company: <u>Windward</u> Date/Time: <u>6/12/18 1455</u>	1) Rec'd by: <u>Jarbya</u> Signature: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>06/12/18 1455</u>	2) Released by: <u>          </u> Print name: <u>          </u> Signature: <u>          </u> Company: <u>          </u> Date/Time: <u>          </u>	2) Rec'd by: <u>          </u> Print name: <u>          </u> Signature: <u>          </u> Company: <u>          </u> Date/Time: <u>          </u>
--	---	--	---

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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

3 of 3

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

12 3079

Project/Client Name: LDN AOC3 - Inter-tidal sediment  
 Project Number: task 4  
 Contact Name: A. Vandervort  
 Sampled By: Windward

Ship to: ARI  
 Attn: De Dinnitoo  
 Shipping Date: 6-12-2018  
 Shipper: hand-delivered  
 Airbill Number: Std.  
 Form filled out by: S. Replinger  
 Turnaround requested: ↓

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))				
6-12-2018	1215	LDN18-IT45-8P5-F04	1	Sediment											
↓	1105	↓ ↓ ↓ ↓ -C01	1	↓											
↓	1147	↓ ↓ ↓ ↓ -E01	1	↓											
↓	1225	↓ ↓ ↓ ↓ -F03	1	↓											
↓	1106	↓ ↓ ↓ ↓ -D04	1	↓											
↓	1149	↓ ↓ ↓ ↓ -E02	1	↓											
↓	1213	↓ ↓ ↓ ↓ -F02	1	↓											
Total Number of Containers			7	Purchase Order / Statement of Work #											
1) Released by: <u>A. Hawley</u> Print name: <u>Abby Hawley</u> Signature: <u>A. Hawley</u> Company: <u>Windward</u> Date/Time: <u>6/12/18 1455</u>				1) Rec'd by: <u>Jacobna Ifer</u> <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>06/12/18 1455</u>				2) Released by: Print name: Signature: Company: Date/Time:				2) Rec'd by: Company: Date/Time:			

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3102

Project/Client Name: LDW ACC3 - intertidal sediment + bank soil  
 Project Number: task 4  
 Contact Name: A. Vandervort  
 Sampled By: Windward

Ship to: ARI  
 Attn: Sue Dunnington  
 Shipper: hand delivered  
 Form filled out by: S. Replinger  
 Shipping Date: 6-12-2018  
 Airbill Number: ---  
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))				
					TS/TOC	Metals	Arachnids/ Spiders/ PAHs	grain size	Archive	diatom / fresh					
6-12-2018	1235	LDW18-BNK5-1	7	sediment	x	x	x	x	x	x	extra for grain size QC				
6-12-2018	1235	LDW18-BNK5-FED	6	sediment	x	x	x	x	x	x					
/	/	/	/	/	/	/	/	/	/	/	/				
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<b>Total Number of Containers</b>			<b>13</b>	<b>Purchase Order / Statement of Work #</b>											
1) Released by: <u>R. Bergquist</u>				1) Rec'd by: <u>Jacob Walter</u>				2) Released by:				2) Rec'd by:			
Print name: <u>Bert Bergquist</u>				Company: <u>ARI</u>				Print name:				Company:			
Signature: <u>[Signature]</u>				Date/Time: <u>6/12/18 14:55</u>				Signature:				Date/Time:			
Company: <u>Windward</u>				Date/Time: <u>06/12/18 14:55</u>				Company:				Date/Time:			

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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

1 of 5

SR 25

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3-80

Project/Client Name: LDW AOC3 - intertidal sed + bank soil  
 Project Number: hsh-4  
 Contact Name: A. Vandervort  
 Sampled By: Windward

Ship to: ARI  
 Attn: Sue Dunahoo  
 Shipper: hand-delivered  
 Form filled out by: S. Replinger  
 Shipping Date: 6-13-2018  
 Airbill Number: ---  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Hold (pouring camp washers)	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
6-13-2018	0950	LDW18-1745-C107-B01	1	Sediment	X							
	1049	-A01	1		X							
	0920	-C01	1		X							
	0937	-C02	1		X							
	0918	-B02	1		X							
	0938	↓ ↓ ↓ -B02	1		X							
	1215	LDW18-1745-C108-B05	1		X							
	1155	-B04	1		X							
	1300	-B03	1		X							
	1147	-B01	1		X							
	1137	-B02	1		X							
	1208	↓ ↓ ↓ -A01	1		X							

Total Number of Containers: 12 Purchase Order / Statement of Work #

1) Released by: <u>Ashara Vandervort</u> Print name: <u>Ashara Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/13/18 1626</u>	1) Rec'd by: <u>Barton Fisk</u> <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>6/13/18 1626</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Print name: Signature: Company: Date/Time:
---	--	--	---

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To be completed by Laboratory upon sample receipt:

Date of receipt: <u>6/13/18</u>	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2 of 5

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

19 3081

Project/Client Name: LOWAOC3 - Intermodal Se  
 Project Number: task 4  
 Contact Name: A. Vandervort  
 Sampled By: Windward

Ship to: ARI  
 Attn: Sue Dunitz Shipping Date: 6-13-2018  
 Shipper: hand delivered Airbill Number: —  
 Form filled out by: S. Replinger Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Hold (pending) composting instructions						
6-13-2018	1015	LOW18-1145-BP4-B01	1	Sediment	X						
	1035	-A01	1		X						
	0958	-C01	1		X						
	1017	-B04	1		X						
	1100	-B03	1		X						
	1242	-E05	1		X						
	1235	-E07	1		X						
	1104	-B02	1		X						
	1250	-E06	1		X						
	1249	-E04	1		X						
	1155	-E01	1		X						
	1055	-B05	1		X						
Total Number of Containers			12	Purchase Order / Statement of Work #							
1) Released by: <u>Amara Vandervort</u> Print name: <u>Amara Vandervort</u> Signature: <u>Amara Vandervort</u> Company: <u>Windward</u> Date/Time: <u>6/13/18 1626</u>		1) Rec'd by: <u>Brianon Fisk</u> <u>Windward</u> Company: <u>ARI</u> Date/Time: <u>6/13/18 1626</u>		2) Released by:		2) Rec'd by:					
				Print name:		Company:					
				Signature:		Company:					
				Company:		Date/Time:					

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**To be completed by Laboratory upon sample receipt:**

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

112 3094

Project/Client Name: LDW AOC3- intertidal sediment  
 Project Number: TRSH 9  
 Contact Name: A. Vandavert  
 Sampled By: Windward

Ship to: ARI  
 Attn: Sue Djanineo  
 Shipper: hand delivered  
 Form filled out by: S. Replinger  
 Shipping Date: 6.13.2018  
 Airbill Number:                       
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Holds (permitting composition instructions)	Test(s) Requested (check test(s) required)						Comments / Instructions (jar tag number(s))
6-13-2018	1208	LDW18-IT45-BP4-D01	1	Sediment	X							
	1228	↓ ↓ ↓ -E03	1		X							
	1233	↓ ↓ ↓ -E02	1		X							
	0932	LDW18-IT45-CL05-B02	1		X							
	0943	↓ ↓ ↓ -B01	1		X							
	1017	↓ ↓ ↓ -A02	1		X							
	1055	↓ ↓ ↓ -C01	1		X							
	1108	↓ ↓ ↓ -B03	1		X							
	1152	LDW18-IT45-CL06-A02	1		X							
	1214	↓ ↓ ↓ -A01	1		X							
	1226	↓ ↓ ↓ -A03	1		X							
	1309	LDW18-IT45-CL03-C01	1		X							
<b>Total Number of Containers</b>			<b>12</b>	<b>Purchase Order / Statement of Work #</b>								

1) Released by: <u>Amara Vandavert</u>	1) Rec'd by: <u>Brandon Fick</u>	2) Released by:	2) Rec'd by:
Print name: <u>Amara Vandavert</u>	<u>[Signature]</u>	Print name:	
Signature: <u>[Signature]</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/13/18 1626</u>	Date/Time: <u>6/13/18 1626</u>	Date/Time:	Date/Time:

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**To be completed by Laboratory upon sample receipt:**

Date of receipt: <u>                    </u>	Laboratory W.O. #: <u>                    </u>
Condition upon receipt: <u>                    </u>	Time of receipt: <u>                    </u>
Cooler temperature: <u>                    </u>	Received by: <u>                    </u>

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3105

Project/Client Name: LDW ACC3 - intertidal sediment  
 Project Number: task 4  
 Contact Name: A. Vandervort  
 Sampled By: Windward

Ship to: ARI  
 Attn: Sve. Dinnihoo  
 Shipper: hand-delivered  
 Form filled out by: S. Replinger  
 Shipping Date: 6-13-2018  
 Airbill Number: ---  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [jar tag number(s)]
					Hold pending composition	Instructions					
6-13-2018	1300	LDW18-IT45-CLO2-C02	1	sediment	x						
	1120	LDW18-IT45-CL13-B05	1		x						
	1220	-A09	1		x						
	1230	-A08	1		x						
	1310	-A10	1		x						
	1330	-A11	1		x						
	1125	-A06	1		x						
	1155	-A07	1		x						
	1045	LDW18-IT45-BP5-F07	1		x						
	1200	-F09	1		x						
	1305	-F03	1		x						
	0950	-B01	1		x						

Total Number of Containers: 12 Purchase Order / Statement of Work #

1) Released by: <u>Amelia Vandervort</u> Print name: <u>Amelia Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/13/18 1626</u>	1) Rec'd by: <u>Frederick Fick</u> <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>6/13/18 1626</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Print name: Signature: Company: Date/Time:
---	---	--	---

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To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3106

Project/Client Name: LOW AOC3 - Intertidal sediment  
 Project Number: task 4  
 Contact Name: A. Vanderwaal  
 Sampled By: S. Replinger / Woodward

Ship to: ARI  
 Attn: Sue Dunning  
 Shipper: hand delivered  
 Form filled out by: S. Replinger  
 Shipping Date: 6.13.18  
 Airbill Number: \_\_\_\_\_  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Analytical (e.g., metals, organics) (instructions)	Test(s) Requested (check test(s) required)						Comments / Instructions (jar tag number(s))
6/13/2018	1100	LOW18-IT45-BPS-F08	1	Sediment	X							
	1207	-F10	1		X							
	1220	-F14	1		X							
	1231	-F12	1		X							
	1250	-F11	1		X							
	1019	-A01	1		X							
	1045	-F06	1		X							
	1337	-G01	1		X							
	1330	-F15	1		X							

Total Number of Containers: 9 Purchase Order / Statement of Work # \_\_\_\_\_

1) Released by: <u>A. Vanderwaal</u>	1) Rec'd by: <u>Brandon Fiske</u>	2) Released by: _____	2) Rec'd by: _____
Print name: <u>A. Vanderwaal</u>	Company: <u>ARI</u>	Print name: _____	Company: _____
Signature: <u>[Signature]</u>	Date/Time: <u>6/13/18 1626</u>	Signature: _____	Date/Time: _____
Company: <u>Woodward</u>		Company: _____	

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Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____



1 of 1

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

112 3095

Project/Client Name: LDW ACC3- intertidal sediment & bank soil  
 Project Number: Task 4  
 Contact Name: A. Vandewert  
 Sampled By: Windward

Ship to: ARI  
 Attn: See Distribution  
 Shipper: Windward  
 Form filled out by: K. McPeak  
 Shipping Date: 6/13/18  
 Airbill Number: NA  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Ts/TOC	Metals	Archea/Spores/Paras	Grain Size	Archives	Dioxin/Furans	
6/13/18	1038	LDW18-BNK3-1	6	Sediment	X	X	X	X	X	X	
	0945	LDW18-BNK3-2	1		X	X	X	X	X	X	
	1020	LDW18-BNK3-3	1		X	X	X	X	X	X	
	0923	LDW18-BNK4-1	1		X	X	X	X	X	X	
	0930	LDW18-BNK4-2	1		X	X	X	X	X	X	
	0936	LDW18-BNK4-3	1		X	X	X	X	X	X	
<del>LDW18-4-1-18/18</del>											
<b>Total Number of Containers</b>			<u>36</u>	<b>Purchase Order / Statement of Work #</b>							
1) Released by: <u>A. Vandewert</u>		1) Rec'd by: <u>Brandon McPeak</u>		2) Released by:				2) Rec'd by:			
Print name: <u>Amara Vandewert</u>		Company: <u>ARI</u>		Print name:				Company:			
Signature: <u>Windward</u>		Date/Time: <u>6/13/18 1626</u>		Signature:				Date/Time:			
Company: <u>Windward</u>		Date/Time: <u>6/13/18 1626</u>		Company:				Date/Time:			

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

1 of 1

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3107

Project/Client Name: LDW AOC3 - Intertidal & bank sampling  
 Project Number: TASK 4  
 Contact Name: Amara Vandervort  
 Sampled By: Windward

Ship to: ARLI  
 Attn: Sue Dinnihoo  
 Shipper: hand del'd  
 Form filled out by: T Do  
 Shipping Date: 06.14.18  
 Airbill Number: \_\_\_\_\_  
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					TS/TOC	Metals	Acidob, SVOCs, PAHs	Grain Size	Archival	Dioxins/Furans	
06.14.18	0945	LDW18-BNK 1-1	6	Sediment	X	X	X	X	X	X	
↓	1215	LDW18-BNK 2-1	↓	↓	X	X	X	X	X	X	

Total Number of Containers: \_\_\_\_\_ Purchase Order / Statement of Work # \_\_\_\_\_

1) Released by: Print name: <u>Kate McPeck</u> Signature: _____ Company: <u>WINDWARD ENV</u> Date/Time: <u>06.14.18/1605</u>	1) Rec'd by: <u>Stephanie Fisher</u> Company: <u>ARLI</u> Date/Time: <u>6/14/18 1605</u>	2) Released by: Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: Print name: _____ Signature: _____ Company: _____ Date/Time: _____
--	---	--	---

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

1 of 7

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3108

Project/Client Name: LDW ADC3-Intertidal & bank sampling  
 Project Number: TASK 4  
 Contact Name: ANARA VANDERVOORT  
 Sampled By: WINDWARD

Ship to: ARI  
 Attn: SUE DUMMIED Shipping Date: 06.14.18  
 Shipper: HARD DELD Airbill Number: \_\_\_\_\_  
 Form filled out by: S. Replinger Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	HOLD PENDING COMPLETION OF INSTRUCTIONS	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
06.14.18	1325	LDN18-IT45-BP1-A05	1	SEDIMENT	X							
	1325	-A05-FD	1		X							
	1345	-A04	1		X							
	1345	-A01-FD	1		X							
	1310	-A02	1		X							
	1310	-A02-FD	1		X							
	1319	-B02	1		X							
	1319	-B02-FD	1		X							
	1315	-B03	1		X							
	1315	-B03-FD	1		X							
	1340	-B01	1		X							
	1340	-B01-FD	1		X							
<b>Total Number of Containers</b>			<b>12</b>	<b>Purchase Order / Statement of Work #</b>								

1) Released by: Print name: <u>Kate McPeak</u> Signature: _____ Company: <u>WINDWARD ENV</u> Date/Time: <u>06.14.18/1605</u>	1) Rec'd by: <u>Stephanie FISHER</u> Company: <u>ARI</u> Date/Time: <u>6/14/18 1605</u>	2) Released by: Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: Company: _____ Date/Time: _____
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Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

2 of 7

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

112 3109

Project/Client Name: LDW ADC3-INTERTIDAL & BAYE SAMPLING  
 Project Number: TASK 4  
 Contact Name: ANTRA VANDERVOET  
 Sampled By: WINDWARD

Ship to: AIR!  
 Attn: SUE DURNIHOO  
 Shipper: HAND DEL'D  
 Form filled out by: S. Replinger  
 Shipping Date: 06.14.18  
 Airbill Number: ---  
 Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]	
					HOLD	PENDING	COMPOSITING	INSTRUMENTS				
06.14.18	1322	LDW18-ITAS-BP2-A01	1	SEDIMENT	X							
	1322	-A01-FD	1		X							
	1304	-A06	1		X							
	1304	-A06-FD	1		X							
	1315	-A03	1		X							
	1315	↓ ↓ ↓ -A03-FD	1		X							
	1000	LDW18-ITAS-BP2-A01	1		X							
	1014	-A02	1		X							
	1119	-A06	1		X							
	1210	-A09	1		X							
	1207	-A08	1		X							
	1038	↓ ↓ ↓ -A03	1		X							
<b>Total Number of Containers</b>			12	<b>Purchase Order / Statement of Work #</b>								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: <u>Kate M. Prock</u>	<u>Stephanie Fisher</u>	Print name:	
Signature: <u>[Signature]</u>	Company: <u>\$ H21</u>	Signature:	Company:
Company: <u>WINDWARD ENV</u>	Date/Time: <u>06/14/18 1605</u>	Company:	Date/Time:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3110

Project/Client Name: LDW AD03-INTERTIDAL SEDIMENT & BANK SOIL Ship to: ARI  
 Project Number: TASL 4 Attn: SK TUNLHOO Shipping Date: 06.14.18  
 Contact Name: ANAZA VAN DERVOORT Shipper: HARD DEL'D Airbill Number: \_\_\_\_\_  
 Sampled By: WINDWARD Form filled out by: S. Replinger Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					HOLD	PENALTY	CONTAMINATING	INSTRUMENT			
06.14.18	1054	LDW18-IT45-BP2-A04	1	SEDIMENT	X						
	1114	↓ ↓ ↓ -A05	1		X						
	1151	↓ ↓ ↓ -A07	1		X						
	1310	LDW18-IT45-CLO1-A03	1		X						
	1340	↓ ↓ ↓ -B01	1		X						
	1308	↓ ↓ ↓ -A05	1		X						
	1329	↓ ↓ ↓ -A01	1		X						
	1312	↓ ↓ ↓ -A04	1		X						
	1341	↓ ↓ ↓ -A02	1		X						
	1106	LDW18-IT45-CLO2-B01	1		X						
	1151	↓ ↓ ↓ -D01	1		X						
	1004	↓ ↓ ↓ -L02	1		X						
<b>Total Number of Containers</b>			<b>12</b>	<b>Purchase Order / Statement of Work #</b>							

1) Released by: Print name: <u>Kate McPeak</u> Signature: <u>[Signature]</u> Company: <u>WINDWARD ENV.</u> Date/Time: <u>06.14.18 / 1605</u>	1) Rec'd by: <u>Stephanie Fisher</u> Company: <u>ARI</u> Date/Time: <u>06/14/18 1605</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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### To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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# CHAIN-OF-CUSTODY/TEST REQUEST FORM

Ne 3111

Project/Client Name: LOW Acc 2 - intertidal sediment + bank sampling Ship to: ARI  
 Project Number: 7564 Attn: Sue Dunning Shipping Date: 6-14-2018  
 Contact Name: A. Vandervoort Shipper: hand-delivered Airbill Number: —  
 Sampled By: SF Windward Form filled out by: S. Replinger Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Hold (Pending)	Composition	Instructions				
6-14-2018	1035	LOWIR-1745-CLO2-M04	1	sediment	x						
	1118	-G01	1		x						
	1159	-J01	1		x						
	1215	-J03	1		x						
	1603	-L03	1		x						
	1619	-M02	1		x						
	1636	-M05	1		x						
	1131	-E03	1		x						
	1201	-J02	1		x						
	1000	-L01	1		x						
	1015	-M01	1		x						
	1625	-M03	1		x						
Total Number of Containers			12	Purchase Order / Statement of Work #							

1) Released by: Print name: <u>Kate McPeak</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/14/18 1605</u>	1) Rec'd by: <u>Stephanie Fisher</u> Company: <u>ARI</u> Date/Time: <u>6/14/18 1605</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3112

Project/Client Name: LDW AOC3-Intertidal sediment + bank sampling  
 Project Number: task 4  
 Contact Name: A. VanderVint  
 Sampled By: Windward

Ship to: AR1  
 Attn: Sue Dunning  
 Shipper: hand-delivered  
 Form filled out by: S. Replinger  
 Shipping Date: 6-14-2018  
 Airbill Number: —  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Hold (pending composition instructions)	Test(s) Requested (check test(s) required)					Comments / Instructions [Jar tag number(s)]
6-14-2018	1040	LDW18-IT45-CLO2-K01	1	Sediment	X						
	1120	-G02	1		X						
	1135	-E02	1		X						
	1212	-C01	1		X						
	1245	-A01	1		X						
	1030	-F01	1		X						
	1055	-F05	1		X						
	0954	-H06	1		X						
	1010	-H02	1		X						
	1125	-D04	1		X						
	1202	-C02	1		X						
	1225	-C05	1		X						
Total Number of Containers			12	Purchase Order / Statement of Work #							

1) Released by: Print name: <u>Kate McPook</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/14/18 1605</u>	1) Rec'd by: <u>Stephanie Fishel</u> Company: <u>AR1</u> Date/Time: <u>6/14/18 1605</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3113

Project/Client Name: LOW AOC3 - intertidal sediment + bank soil  
 Project Number: 4  
 Contact Name: A. Vandervort  
 Sampled By: Windward

Ship to: ARI  
 Attn: Sue Dunnington  
 Shipper: hand-delivered  
 Form filled out by: S. Replinger  
 Shipping Date: 6-14-2018  
 Airbill Number: \_\_\_\_\_  
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]	
					Head (pending)	Compositing	Instructions					
6-14-2018	1238	LDW18-1T45-C602-C07	1	sediment	x							
	1138	-C03	1		x							
	1149	-C04	1		x							
	1047	-F04	1		x							
	1113	-D06	1		x							
	1017	-I02	1		x							
	1035	-F02	1		x							
	0948	-H07	1		x							
	1001	-H04	1		x							
	0951	-B07	1		x							
	1000	-B06	1		x							
	1145	-D03	1		x							
Total Number of Containers				Purchase Order / Statement of Work #								

1) Released by: Print name: <u>Kate McPeak</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/14/18 / 1605</u>	1) Rec'd by: <u>Stephanie FISHER</u> Company: <u>ARI</u> Date/Time: <u>6/14/18 1605</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



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# CHAIN-OF-CUSTODY/TEST REQUEST FORM

12 3115

Project/Client Name: LDW AOC3  
 Project Number: \_\_\_\_\_  
 Contact Name: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Ship to: \_\_\_\_\_  
 Attn: \_\_\_\_\_ Shipping Date: \_\_\_\_\_  
 Shipper: \_\_\_\_\_ Airbill Number: \_\_\_\_\_  
 Form filled out by: \_\_\_\_\_ Turnaround requested: \_\_\_\_\_

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Hold pending Compositing instructions						
6-14-2018	1210	LDW18-1145-CL02-D02	1	sediment	X						
	1105	-D07	1		X						
	1130	-D05	1		X						
	1025	-E03	1		X						
	1040	-F03	1		X						
	0955	-H05	1		X						
	1015	-H03	1		X						
	1137	-E01	1		X						
	1012	-B05	1		X						
	1025	-B04	1		X						
	1037	-B03	1		X						
	1052	-B02	1		X						
<b>Total Number of Containers</b>			12	<b>Purchase Order / Statement of Work #</b>							

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: <u>Kate McPeak</u>	<u>Stephanie Fisher</u>	Print name:	
Signature: <u>[Signature]</u>	Company: <u>AWI</u>	Signature:	Company:
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/14/18 / 1605</u>	Date/Time: <u>6/14/18 1605</u>	Date/Time:	Date/Time:

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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

1 of 7

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

NO 3125

Project/Client Name: LDW A003-Intertidal Sediment  
 Project Number: task 4  
 Contact Name: A. Vandervort  
 Sampled By: Windward

Ship to: ARI  
 Attn: Sue Dunning  
 Shipping Date: 6  
 Shipper: hand-delivered  
 Airbill Number: ---  
 Form filled out by: S. Replinger  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]	
					Hold	Pending	Capacity	Instructions				
6-16-2018	1234	LDW18-1745-BP6-A09	1	sediment	X							
	1234	-A09-FD	1		X							
	1240	-A08	1		X							
	1240	-A08-FD	1		X							
	1243	-A06	1		X							
	1243	-A06-FD	1		X							
	1248	-A04	1		X							
	1248	-A04-FD	1		X							
	1254	-A05	1		X							
	1254	-A05-FD	1		X							
	1304	-A03	1		X							
	1304	-A03-FD	1		X							
<b>Total Number of Containers</b>			<u>12</u>	<b>Purchase Order / Statement of Work #</b>								

1) Released by: Print name: <u>Amara Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/18/18 1336</u>	1) Rec'd by: <u>Yared Lisana</u> Company: <u>YL #736</u> Date/Time: <u>6/18/18 13:36</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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# CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3126

Project/Client Name: LOW AOC3-Intertidal Sediment  
 Project Number: 1254  
 Contact Name: A. Vandervort  
 Sampled By: Windward

Ship to: AR1  
 Attn: Sue Dimmick  
 Shipper: hand-delivered  
 Form filled out by: S. Replinger  
 Shipping Date: \_\_\_\_\_  
 Airbill Number: \_\_\_\_\_  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Heavy Metals	Compositing	Instructions				
6/6/2018	1310	LOW8-IT45-BP6-A07	1	Sediment	X						
	1310	-A07-FD	1		X						
	1315	-A01	1		X						
	1315	-A01-FD	1		X						
	1327	-A02	1		X						
	1327	-A02-FD	1		X						
	1320	LOW8-IT45-BP3-B10	1		X						
	1215	-B02	1		X						
	1151	-B06	1		X						
	1208	-B03	1		X						
	1300	-B09	1		X						
	1230	-A01	1		X						
<b>Total Number of Containers</b>			<b>12</b>	<b>Purchase Order / Statement of Work #</b>							

1) Released by: Print name: <u>Angela Vandervort</u> Signature: <u>A. Vandervort</u> Company: <u>Windward</u> Date/Time: <u>6/18/18 13:36</u>	1) Rec'd by: <u>Yard Lisa Newkirk</u> Company: <u>YL # 736</u> Date/Time: <u>6/18/18 13:36</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
---	---	--	--

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Condition upon receipt:	Time of receipt:
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# CHAIN-OF-CUSTODY/TEST REQUEST FORM

NO 3127

Project/Client Name: LDW AOC3- Interstitial Sediment  
 Project Number: task 4  
 Contact Name: A. Vandervort  
 Sampled By: Windward

Ship to: ARI  
 Attn: Sue Dimmick  
 Shipper: hand-delivered  
 Form filled out by: S. Replinger  
 Shipping Date: 6/16  
 Airbill Number: ---  
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Had pending composition	Had pending structure					
6/16/2018	1048	LDW18-1T45-BP3-D02	1	Sediment	X						
	1102	-D01	1		X						
	1104	-D03	1		X						
	1131	-B08	1		X						
	1232	-B01	1		X						
	1254	-B07	1		X						
	1312	-B05	1		X						
	1142	-C01	1		X						
	1158	-B04	1		X						
	1349	LDW18-1T45-CL04-A06	1		X						
	1359	LDW18-1T45-CL05-A01	1		X						
	1207	LDW18-1T45-CL10-A01	1		X						
<b>Total Number of Containers</b>			<u>12</u>	<b>Purchase Order / Statement of Work #</b>							

1) Released by: Print name: <u>Amara Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/18/18 13:36</u>	1) Rec'd by: <u>Yared Giamenone</u> Company: <u>YL #736</u> Date/Time: <u>6/18/18 13:36</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Cooler temperature:	Received by:

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# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3128

Project/Client Name: LDW AOC3 - Intertidal Sediment  
 Project Number: task 4  
 Contact Name: A. Vandenberg  
 Sampled By: Windward

Ship to: ARI  
 Attn: Sue Dunnington  
 Shipper: hand delivered  
 Form filled out by: S. Replinger  
 Shipping Date: \_\_\_\_\_  
 Airbill Number: \_\_\_\_\_  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
6-16-2018	1207	LDWMP-1145-CL10-A02	1	sediment							
	1213	↓ ↓ ↓ -A03	1	↓							
	1216	↓ ↓ ↓ -A04	1	↓							
	1224	↓ ↓ ↓ -B01	1	↓							
	1227	↓ ↓ ↓ -B02	1	↓							
	1059	LDWMP-1145-CL14-B07	1	↓							
	1103	↓ ↓ ↓ -B08	1	↓							
	1115	↓ ↓ ↓ -B05	1	↓							
	1120	↓ ↓ ↓ -B04	1	↓							
	1125	↓ ↓ ↓ -B03	1	↓							
	1128	↓ ↓ ↓ -B02	1	↓							
	1134	↓ ↓ ↓ -B01	1	↓							
<b>Total Number of Containers</b>			<b>12</b>	<b>Purchase Order / Statement of Work #</b>							

1) Released by: Print name: <u>Alyssa Vandenberg</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/15/18 13:30</u>	1) Rec'd by: <u>Yared Lisonevone</u> Company: <u>YL # 736</u> Date/Time: <u>6/18/18 13:36</u>	2) Released by: Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: Company: _____ Date/Time: _____
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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3129

Project/Client Name: LOW18 AOC3 - intertidal sediment  
 Project Number: task 4  
 Contact Name: A. Vandervort  
 Sampled By: Windward

Ship to: ARI  
 Attn: Sue Dunning Shipping Date: \_\_\_\_\_  
 Shipper: hand-delivered Airbill Number: \_\_\_\_\_  
 Form filled out by: ~~Handwritten~~ S. Replinger Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
					Hold pending	Compositional	STRUCTURE				
6-16-2018	1138	LOW18-IT45-CL11-A01	1	Sediment	X						
	1110	↓ ↓ ↓ -B06	1		X						
	1130	LOW18-IT45-CL03-A05	1		X						
	1140	↓ ↓ ↓ -B01	1		X						
	1217	↓ ↓ ↓ -A02	1		X						
	1200	↓ ↓ ↓ -A03	1		X						
	1142	↓ ↓ ↓ -A04	1		X						
	1222	↓ ↓ ↓ -A01	1		X						
	1343	↓ ↓ ↓ -A06	1		X						
	1350	LOW18-IT45-CL12-G03	1		X						
	1340	↓ ↓ ↓ -G01	1		X						
	1235	↓ ↓ ↓ -C10	1		X						
<b>Total Number of Containers</b>			<b>12</b>	<b>Purchase Order / Statement of Work #</b>							
1) Released by:			1) Rec'd by:			2) Released by:			2) Rec'd by:		
Print name: <u>Amber Vandervort</u>			Print name: <u>Yared Lisaneau</u>			Print name:			Print name:		
Signature: <u>A. Vandervort</u>			Signature: <u>[Signature]</u>			Signature:			Signature:		
Company: <u>Windward</u>			Company: <u>YL #736</u>			Company:			Company:		
Date/Time: <u>6/18/18 13:36</u>			Date/Time: <u>6/18/18 13:36</u>			Date/Time:			Date/Time:		

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# CHAIN-OF-CUSTODY/TEST REQUEST FORM

110 3130

Project/Client Name: LOW AOC3-intertidal sediment  
 Project Number: task 4  
 Contact Name: A. Vandervort  
 Sampled By: Windward

Ship to: AR1  
 Attn: Sue Dunnington  
 Shipper: hand-delivered  
 Form filled out by: S. Replinger  
 Shipping Date: \_\_\_\_\_  
 Airbill Number: \_\_\_\_\_  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Hold pending composition	Microstructure					
6.16.2018	1246	LDWIF-1745-CL12-D01	1	Sediment	X						
	1315	-E01	1		X						
	1254	-D03	1		X						
	1329	-E02	1		X						
	1301	-D04	1		X						
	1214	-C06	1		X						
	1226	-C09	1		X						
	1107	-G02	1		X						
	1159	-C04	1		X						
	1210	-C05	1		X						
	1225	-C08	1		X						
	1255	-D02	1		X						
Total Number of Containers			12	Purchase Order / Statement of Work #							

1) Released by: Print name: <u>Angie Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/18/18 1336</u>	1) Rec'd by: <u>Yared Lisanevone</u> Company: <u>YL #736</u> Date/Time: <u>6/18/18 13:36</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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# CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3131

Project/Client Name: LOW AOC3 - intertidal sediment  
 Project Number: task 4  
 Contact Name: A. Vandervort  
 Sampled By: Windward

Ship to: AR1  
 Attn: Sue Dunnington  
 Shipper: hand-delivered  
 Form filled out by: S. Replinger  
 Shipping Date: \_\_\_\_\_  
 Airbill Number: \_\_\_\_\_  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions (Jar tag number(s))	
					Hold pending	Compositing	Instructions						
6/16/2018	1308	LOW18-IT45-CL12-D06	1	sediment	X								
	1205	-C03	1		X								
	1218	-C07	1		X								
	1237	-C11	1		X								
	1250	-C12	1		X								
	1309	-D05	1		X								
	1338	-F01	1		X								
<b>Total Number of Containers</b>			<b>7</b>	<b>Purchase Order / Statement of Work #</b>									
1) Released by: <u>Angela Vandervort</u>		1) Rec'd by: <u>Yared Lisanevorne</u>			2) Released by:			2) Rec'd by:					
Print name: <u>Angela Vandervort</u>		Company: <u>YL #736</u>			Print name:			Company:					
Signature: <u>[Signature]</u>		Date/Time: <u>6/18/18 13:36</u>			Signature:			Date/Time:					
Company: <u>Windward</u>					Company:			Date/Time:					

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:





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# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3116

Project/Client Name: LDW AOC3 - Interstitial Sediment  
 Project Number: task 4  
 Contact Name: A. Vanderhoff  
 Sampled By: Windward

Ship to: ARI  
 Attn: hand-delivered  
 Shipper: See Dinahoo  
 Form filled out by: S. Replinger  
 Shipping Date: 6-15-2018  
 Airbill Number: ---  
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Had pers. composition instructions						
6-15-2018	1400	LDW18-IT45-BPS-A08	1	sediment	X						
	1430	-B01	1		X						
	1200	-A14	1		X						
	1230	-A19	1		X						
	1040	-A13	1		X						
	1345	-A12	1		X						
	1405	-A11	1		X						
	1305	-A17	1		X						
	1220	-A21	1		X						
	1250	-A18	1		X						
	1120	-C01	1		X						
	1150	-A15	1		X						
<b>Total Number of Containers</b>			<b>12</b>	<b>Purchase Order / Statement of Work #</b>							
1) Released by: <u>Suzanne Replinger</u>			1) Rec'd by: <u>Stephanie Fisher</u>			2) Released by:			2) Rec'd by:		
Print name: <u>Suzanne Replinger</u>			Company: <u>ARI</u>			Print name:			Company:		
Signature: <u>[Signature]</u>			Date/Time: <u>6/15/18 1750</u>			Signature:			Date/Time:		
Company: <u>Windward</u>			Date/Time: <u>6-15-2018 / 1750</u>			Company:			Date/Time:		

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3117

Project/Client Name: LOW18-3 - intertidal sediment  
 Project Number: task 4  
 Contact Name: A. Vandervort  
 Sampled By: Windward

Ship to: ARI  
 Attn: Sue Dunnihoo  
 Shipper: hand-delivered  
 Form filled out by: S. Replinger  
 Shipping Date: 6-15-2018  
 Airbill Number: —  
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
					Hold pending Compositing instructions						
6-15-2018	1430	LOW18-1145-BP8-A09	2	Sediment	X						2 4-oz jars collected
	1102	-C04	1		X						
	1402	-A01	1		X						
	1425	-A03	1		X						
	1435	-A04	1		X						
	1441	-A05	1		X						
	1446	-A07	1		X						
	1045	-C02	1		X						
	1125	-C03	1		X						
	1300	-A10	1		X						
	1320	-A06	1		X						
	1400	-A02	1		X						
<b>Total Number of Containers</b>			<b>13</b>	<b>Purchase Order / Statement of Work #</b>							

1) Released by: Print name: <u>Suzanne Replinger</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6-15-2018/1730</u>	1) Rec'd by: <u>Stephanie Fisher</u> Company: <u>ARI</u> Date/Time: <u>6/15/18 1730</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3118

Project/Client Name: LDWA003 - intertidal sediment  
 Project Number: task 4  
 Contact Name: A. Vandervort  
 Sampled By: Windward

Ship to: ARI  
 Attn: Sie Dinnihoo  
 Shipper: hand-delivered  
 Form filled out by: S. Reisinger  
 Shipping Date: 6-15-2018  
 Airbill Number: \_\_\_\_\_  
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Hold pending composition instructions						
6-15-2018	1220	LDW18-1T45-BP8-A20	1	Sediment	X						
	1230	↓ ↓ ↓ -A16	1		X						
	1200	↓ ↓ ↓ -A22	1		X						
	1206	LDW18-1T45-BP7-A11	1		X						
	1259	↓ ↓ ↓ -B02	1		X						
	1255	↓ ↓ ↓ -B01	1		X						
	1305	↓ ↓ ↓ -B05	1		X						
	1115	↓ ↓ ↓ -A02	1		X						
	1142	↓ ↓ ↓ -A05	1		X						
	1155	↓ ↓ ↓ -A10	1		X						
	1210	↓ ↓ ↓ -A13	1		X						
	1230	↓ ↓ ↓ -A12	1		X						
<b>Total Number of Containers</b>			<u>12</u>	<b>Purchase Order / Statement of Work #</b>							

1) Released by: Print name: <u>Suzanne Reisinger</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6-15-2018 / 1750</u>	1) Rec'd by: <u>Stephanie Fisher</u> Company: <u>ARI</u> Date/Time: <u>6/15/18 1750</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3119

Project/Client Name: LDW ACC3 - intertidal sediment  
 Project Number: task 4  
 Contact Name: A. Vankervort  
 Sampled By: Windward

Ship to: ARI  
 Attn: Sue Dunning  
 Shipping Date: 6-15-2018  
 Shipper: hand-delivered  
 Airbill Number: \_\_\_\_\_  
 Form filled out by: S. Reppinger  
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Hold pending composite instructions	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
6-15-2018	1115	LDW18-1T45-BP7-A01	1	sediment	X							
	1127	-A04	1		X							
	1138	-A07	1		X							
	1148	-A08	1		X							
	1200	-A09	1		X							
	1130	-A06	1		X							
	1055	-A03	1		X							
	1257	-B03	1		X							
	1310	-B04	1		X							
	1405	LDW18-1T45-BP5-F16	1		X							
	1040	LDW18-1T45-CL16-A11	1		X							
	1231	-A04	1		X							
<b>Total Number of Containers</b>			<b>12</b>	<b>Purchase Order / Statement of Work #</b>								

1) Released by: Print name: <u>Suzanne Reppinger</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6-15-2018 / 1750</u>	1) Rec'd by: Print name: <u>Stephanie Fisher</u> Signature: _____ Company: <u>ARI</u> Date/Time: <u>6/15/18 1750</u>	2) Released by: Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: Print name: _____ Signature: _____ Company: _____ Date/Time: _____
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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3120

Project/Client Name: LOW AOC3- intertidal sediment  
 Project Number: task 4  
 Contact Name: A. Vandervort  
 Sampled By: Windward

Ship to: AR1  
 Attn: Sue Dunning  
 Shipper: hand delivered  
 Form filled out by: S. Replinger  
 Shipping Date: 6-15-2018  
 Airbill Number: \_\_\_\_\_  
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Hold pending composition	Instructors					
6/15/2018	1250	LOW18-1745-CL16-A03	1	Sediment	X						
	1310	-A02	1		X						
	1052	-A10	1		X						
	1106	-A09	1		X						
	1120	-A08	1		X						
	1136	-A07	1		X						
	1145	-A06	1		X						
	1208	-A05	1		X						
	1326	-A01	1		X						
	1351	-A12	1		X						
	1402	LOW18-1745-CL13-B01	1		X						
	1432	LOW18-1745-CL12-H01	1		X						
<b>Total Number of Containers</b>			<u>12</u>	<b>Purchase Order / Statement of Work #</b>							

1) Released by: Print name: <u>Suzanne Replinger</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6-15-2018 / 1750</u>	1) Rec'd by: <u>Stephanie Fisher</u> Company: <u>AR1</u> Date/Time: <u>6/15/18 1750</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: LOW AOC3 - intertidal sediment  
 Project Number: task 4  
 Contact Name: A. Vandervort  
 Sampled By: Windward

Ship to: ARI  
 Attn: Sue Dunning Shipping Date: 6-15-2018  
 Shipper: hand-delivered Airbill Number: \_\_\_\_\_  
 Form filled out by: S. Replinger Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Hold pending composition instructions	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
6-15-2018	1440	LOW18-IT45-CL12-H03	1	sediment	X							
	1450	-H05	1		X							
	1424	-G04	1		X							
	1436	-H02	1		X							
	1449	-H04	1		X							
	1505	-H02	1		X							
	1430	-G06	1		X							
	1455	-H07	1		X							
	1455	-H06	1		X							
	1420	↓ ↓ ↓ -G05	1		X							
	1345	LOW18-IT45-CL15-B11	1		X							
	1430	↓ ↓ ↓ -C01	1		X							
<b>Total Number of Containers</b>			<b>12</b>	<b>Purchase Order / Statement of Work #</b>								

1) Released by: <u>Suzanne Replinger</u> Print name: <u>Suzanne Replinger</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6-15-2018 1750</u>	Rec'd by: <u>Stephanie Fisher</u> Company: <u>ARI</u> Date/Time: <u>6/15/18 1750</u>	2) Released by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: _____ Company: _____ Date/Time: _____
---	--	--	--

\* Distribution: White copies accompany shipment; yellow retained by consignor.



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 Suite 401  
 Seattle, WA 98119  
 Tel: (206) 378-1364  
 Fax: (206) 217-9343

**To be completed by Laboratory upon sample receipt:**

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

7 of 9

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3122

Project/Client Name: LDW AOC3 - intertidal sediment  
 Project Number: task 4  
 Contact Name: A. Vandewort  
 Sampled By: Windward

Ship to: AR1  
 Attn: Sve Dunning  
 Shipper: hand-delivered  
 Form filled out by: S. Replinger  
 Shipping Date: 6-15-2018  
 Airbill Number: ---  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
					Hold pending composition instructions						
6-15-2018	1100	LDWR-IT45-CL15-B13	1	sediment	x						
	1140	-B15	1		x						
	1141	-B05	1		x						
	1120	-B06	1		x						
	1147	-D01	1		x						
	1215	-B18	1		x						
	1246	-B12	1		x						
	1226	-B17	1		x						
	1238	-B16	1		x						
	1307	-B10	1		x						
	1335	-B08	1		x						
	1341	-B09	1		x						
<b>Total Number of Containers</b>			<b>12</b>	<b>Purchase Order / Statement of Work #</b>							

1) Released by: Print name: <u>Suzanne Replinger</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6-15-2018/1730</u>	1) Rec'd by: <u>Stephanie Fisher</u> Company: <u>AR1</u> Date/Time: <u>6/15/18 1750</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
--	--	--	--

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**To be completed by Laboratory upon sample receipt:**

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



8 of 9

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

3123

Project/Client Name: LDW A003 - intertidal sediment  
 Project Number: task 4  
 Contact Name: A. Vanderhorst  
 Sampled By: Windward

Ship to: ARI  
 Attn: Sue Dinnihoo  
 Shipper: hand-delivered  
 Form filled out by: S. Replinger  
 Shipping Date: 6-15-2018  
 Airbill Number: ---  
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Had pending composite instructions						
6-15-2018	1429	LDW18-IT45-CL15-B07	1	sediment	X						
	1036	-B14	1		X						
	1048	-D02	1		X						
	1200	-B19	1		X						
	1223	-A06	1		X						
	1300	-B01	1		X						
	1220	-A08	1		X						
	1305	-B02	1		X						
	1055	-A02	1		X						
	1140	-A04	1		X						
	1217	-A05	1		X						
	1150	-A05	1		X						
<b>Total Number of Containers</b>			<b>12</b>	<b>Purchase Order / Statement of Work #</b>							

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: <u>Suzanne Replinger</u>	Print name: <u>Stephanie Fisher</u>	Print name:	Print name:
Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Signature:	Signature:
Company: <u>Windward</u>	Company: <u>ARI</u>	Company:	Company:
Date/Time: <u>6-15-2018 / 1750</u>	Date/Time: <u>6/15/18 1750</u>	Date/Time:	Date/Time:

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**To be completed by Laboratory upon sample receipt:**

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

9 of 9

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

NO 3124

Project/Client Name: LDW AOC3 - intertidal sediment  
 Project Number: task 4  
 Contact Name: A. Vanderwaal  
 Sampled By: Windward

Ship to: ARI  
 Attn: Sue Dunihoo  
 Shipper: hand delivered  
 Form filled out by: S. Replinger  
 Shipping Date: 6-15-2018  
 Airbill Number: —  
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Hold pending composition instructions	Test(s) Requested (check test(s) required)								Comments / Instructions [Jar tag number(s)]	
6-15-2018	1110	LDW18-1745-CL15-A03	1	sediment	X										
↓	1320	↓ ↓ ↓ -B04	1	↓	X										
	1320	↓ ↓ ↓ -B03	1		X										
↓	1100	↓ ↓ ↓ -A01	1	↓	X										
Total Number of Containers			4	Purchase Order / Statement of Work #											
1) Released by:				1) Rec'd by:				2) Released by:				2) Rec'd by:			
Print name: <u>Suzanne Replinger</u>				Print name: <u>Stephanie Fisher</u>				Print name:				Print name:			
Signature: <u>[Signature]</u>				Company: <u>ARI</u>				Signature:				Company:			
Company: <u>Windward</u>				Date/Time: <u>6/15/18 1750</u>				Company:				Date/Time:			
Date/Time: <u>6/15/2018 / 1750</u>				Date/Time: <u>6/15/18 1750</u>				Date/Time:				Date/Time:			

\* Distribution: White copies accompany shipment; yellow retained by consignor.



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 Suite 401  
 Seattle, WA 98119  
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 Fax: (206) 217-9343

### To be completed by Laboratory upon sample receipt:

Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

# Porewater Forms

### DAILY CONDITIONS BENCHSHEET

Date	Room Temperature	Orbital Shaker Performance Acceptable (Y/N)	Jars and Lids Intact (Y/N)	Comments	Analyst
03/16/18	21.4	Yes	Yes	-	JG
3/17/18	20.9	yes	yes		WJ
3/19/18	20.1	yes	yes	NA	CW
3/20/18	20.3	yes	yes	NA	CW
3/21/18	20.5	yes	yes	NA	CW
3/22/18	21.6	yes	yes	NA	CW
3/23/18	21.4	yes	yes	Opened and checked all. No leaks or wear. ①	CW
3/24/18	21.5	yes	yes	NA	CW
3/26/18	21.1	yes	yes	NA	CW
3/27/18	21.9	yes	yes	NA	CW
3/28/18	21.3	yes	yes	NA	CW
3/29/18	21.6	yes	yes	NA	CW
3/30/18	22.1	yes	yes	opened and checked all. No leaks or wear. ②	CW
3/31/18	21.3	yes	yes	NA	WJ
4/2/18	20.4	yes	yes	NA	CW
4/3/18	21.1	yes	yes	NA	CW
4/4/18	21.6	yes	yes	NA	CW
4/5/18	22.1	yes	yes	NA	CW
+ 4/6/18 →					
4/7/18	21.1	yes ③	yes	⑤	WJ
4/9/18	20.8	yes	yes	NA ④	CW
4/10/18	21.1	yes	yes	NA	CW
4/11/18	22.3	yes	yes	NA	CW
4/12/18	21.9	yes	yes	NA	JG
4/13/18	21.3	yes	yes	NA	JG
4/13/18		No leaks or breakages at take down.			JG

① Noticed Packing of Sed. Flipped boxes for next cycle. 3-23-18 CW

② Flipped Boxes again for next cycle. 3-30-18 CW

③ power out from approx. 8:30 4/6/18 - 5:30 4/7/18 WJ 4/7/18

④ opened and checked Jars. No leaks or wear. Flipped Boxes again for packed sediment. 4-9-18 CW

Thermometer ID: THERM-02C 00025657

Orbital Shaker ID: 0140

# Chain of Custody Record & Laboratory Analysis Request

**Analytical Resources, Incorporated**  
 Analytical Chemists and Consultants  
 4611 South 134th Place, Suite 100  
 Tukwila, WA 98168  
 206-695-6200 206-695-6201 (fax)  
 www.arilabs.com



Page: 1 of 3  
 Date: \_\_\_\_\_ Ice Present?   
 No. of Coolers: \_\_\_\_\_ Cooler Temps: \_\_\_\_\_

Turn-around Requested: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 ARI Assigned Number: \_\_\_\_\_  
 ARI Client Company: WINDWALD  
 Client Contact: ANNA VANDERVOORT  
 Client Project Name: DUWAMISH  
 Client Project #: \_\_\_\_\_  
 Samplers: \_\_\_\_\_

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested				Notes/Comments
LW18-PUPS - SS169	04/17/14	3pm	Polyethylene	1					
LW18-PUPS - SS170	"	"	"	1					
LW18-PUPS - SS174	"	"	"	1					
LW18-PUPS - SS174(001)	"	"	"	1					
LW18-PUPS - SS178	"	"	"	1					
LW18-PUPS - SS179	"	"	"	1					
LW18-PUPS - SS183	"	"	"	1					
LW18-PUPS - SS184	"	"	"	1					
LW18-PUPS - SS186	"	"	"	1					
LW18-PUPS - SS187	"	"	"	1					

Relinquished by: \_\_\_\_\_ (Signature)  
 Printed Name: JOSE GOMEZ-EZLES  
 Company: INTEGRAL CONSULTING  
 Date & Time: 04/17/14 3:15pm

Received by: \_\_\_\_\_ (Signature)  
 Printed Name: S. SUMNATH  
 Company: ARI  
 Date & Time: 04/13/14 15:45

**Limits of Liability:** ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

**Sample Retention Policy:** All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

# Chain of Custody Record & Laboratory Analysis Request

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 Analytical Chemists and Consultants  
 4611 South 134th Place, Suite 100  
 Tukwila, WA 98168  
 206-695-6200 206-695-6201 (fax)  
 www.arilabs.com



Page: 2 of 3  
 Date: \_\_\_\_\_  
 No. of Coolers: \_\_\_\_\_  
 Ice Present?   
 Cooler Temps: \_\_\_\_\_

ARI Assigned Number: \_\_\_\_\_ Turn-around Requested: \_\_\_\_\_  
 ARI Client Company: WINDWARD Phone: \_\_\_\_\_  
 Client Contact: ANNA VANDEVOORT  
 Client Project Name: DUWANISA  
 Client Project #: \_\_\_\_\_  
 Samplers: \_\_\_\_\_

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested				Notes/Comments
L0W18-PURS - SS188	04/13/18	3pm	Highly	1					
L0W18-PURS - SS171	"	"	"	1					
L0W18-PURS - SS172	"	"	"	1					
L0W18-PURS - SS173	"	"	"	1					
L0W18-PURS - SS175	"	"	"	1					
L0W18-PURS - SS176	"	"	"	1					
L0W18-PURS - SS177	"	"	"	1					
L0W18-PURS - SS180	"	"	"	1					
L0W18-PURS - SS181	"	"	"	1					
L0W18-PURS - SS182	"	"	"	1					
Comments/Special Instructions:	Relinquished by: (Signature) _____ Printed Name: _____ Company: _____ Date & Time: _____				Received by: (Signature) _____ Printed Name: _____ Company: _____ Date & Time: _____				Notes/Comments

**Limits of Liability:** ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

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# Chain of Custody Record & Laboratory Analysis Request

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 4611 South 134th Place, Suite 100  
 Tukwila, WA 98168  
 206-695-6200 206-695-6201 (fax)  
 www.arilabs.com

Page: **3** of **3**  
 Date: \_\_\_\_\_ Ice Present?   
 No. of Coolers: \_\_\_\_\_ Cooler Temps: \_\_\_\_\_

ARI Assigned Number: \_\_\_\_\_ Turn-around Requested: \_\_\_\_\_  
 ARI Client Company: **WINDWARD** Phone: \_\_\_\_\_  
 Client Contact: **AMARA VANDEWALD**  
 Client Project Name: **DUWAMISH**

Client Project #: \_\_\_\_\_  
 Samplers: \_\_\_\_\_

Sample ID	Date	Time	Matrix	No. Containers
<b>LDWIS-PURS-SS185</b>	<b>06/17/18</b>	<b>3pm</b>	<b>Billings</b>	<b>1</b>
<b>LDWIS-PURS-Exp-B1k</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>1</b>

Analysis Requested					Notes/Comments

Comments/Special Instructions

Relinquished by: **[Signature]**  
 (Signature)  
 Printed Name: **DUNNITHO**  
 Company: \_\_\_\_\_  
 Date & Time: **04/13/18 3:15pm**

Received by: **[Signature]**  
 (Signature)  
 Printed Name: **ACE**  
 Company: \_\_\_\_\_  
 Date & Time: **04/13/18 15:15**

**Limits of Liability:** ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

**Sample Retention Policy:** All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

### EXPOSURES SETUP BENCHSHEET

Sample ID	Sediment Mass (g ww)	Passive Sampler Mass (g)	Biocide Solution Volume (mL)
LDW18-SS-169	352.2	0.1184	650
LDW18-SS-170	282.2	0.1109	737
* Duplicate → LDW18-SS-174	344.4	0.1084 (x2)	675
LDW18-SS-178	447.0	0.1154	562
LDW18-SS-179	452.3	0.1099	556
LDW18-SS-183	428.8	0.0929	604
LDW18-SS-184	334.6	0.0987	666
LDW18-SS-186	328.4	0.1131	690
LDW18-SS-187	314.2	0.1046	694
LDW18-SS-188	285.4	0.0923	775
LDW18-SS-171	311.7	0.0995	696
LDW18-SS-172	498.6	0.1052	512
LDW18-SS-173	382.3	0.0941	619
LDW18-SS-175	351.2	0.1064	657
LDW18-SS-176	336.2	0.0989	668
LDW18-SS-177	450.9	0.1010	553
LDW18-SS-180	438.4	0.0927	575
LDW18-SS-181	484.3	0.1063	519
LDW18-SS-182	408.6	0.1081	596
LDW18-SS-185	319.0	0.1119	699
Control Blank	—	0.0936	870

Start Date: 3/16/2018

Stop Date: 4/13/2018

Analyst: JG