

**NW Natural Pre-Remedial Design Data Gaps Sampling
Gasco Sediments Site – Spring 2020
Field Change Request Form**

Project Name: Gasco Sediments Cleanup Action **Subconsultant:** Anchor QEA, LLC

Field Activity: Subsurface Sediment Sampling **Request Number:** 13

To: Hunter Young, U.S. Environmental Protection Agency **Date:** May 8, 2020


Field Change Request (FCR) Title: Additional Perimeter Subsurface Sediment Core Collection and Analyses to Determine Final Project Area

Description
<p>On April 16, 2020, NW Natural received approval from the U.S. Environmental Protection Agency (EPA) on Field Change Request Form No. 10 (FCR 10). FCR 10 described the rationale and approach for the collection of 18 additional perimeter subsurface sediment cores and analyses to determine the Final Project Area. The coring work was started on April 20, 2020, and all of these additional subsurface sediment cores have been successfully collected and processed with preliminary chemistry results received from the analytical laboratory. In addition, preliminary chemistry results have also been received on several cores collected pursuant to the EPA-approved FCR 12 dated April 24, 2020. Preliminary chemistry results from three locations (PDI-147, PDI-149, and PDI-165 [Figure 1]), identified sediment concentrations exceeding the Record of Decision Table 21 total polycyclic aromatic hydrocarbon remedial action levels (RALs). Due to these preliminary chemistry results, and in order to collect all necessary data for remedial design during this mobilization, NW Natural proposes to collect four additional sediment cores to bound potential RAL exceedances.</p>

Recommended Change
<p>NW Natural proposes to collect four additional sediment cores less than 150 feet from PDI-147, PDI-149, and PDI-165 at the stations shown in Figure 1 with the geographic coordinates provided in Table 1. The samples will be collected, processed, and submitted for chemical analysis consistent with FCR 10.</p>

<u>Nik Bacher, Anchor QEA</u>		<u>May 8, 2020</u>
Respondent Field Coordinator (or Designee)	Signature	Date

Approval:

<u>Ryan Barth, Anchor QEA</u>		<u>May 8, 2020</u>
Respondent Project Lead	Signature	Date

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Table

Table 1

Additional Perimeter Interim Project Area Subsurface Sediment Core Sampling Locations

Location ID	Easting (X)	Northing (Y)
PDI-166	7623367.18	706400.95
PDI-167	7623514.56	706375.39
PDI-168	7624119.04	706088.31
PDI-169	7624169.10	705926.98

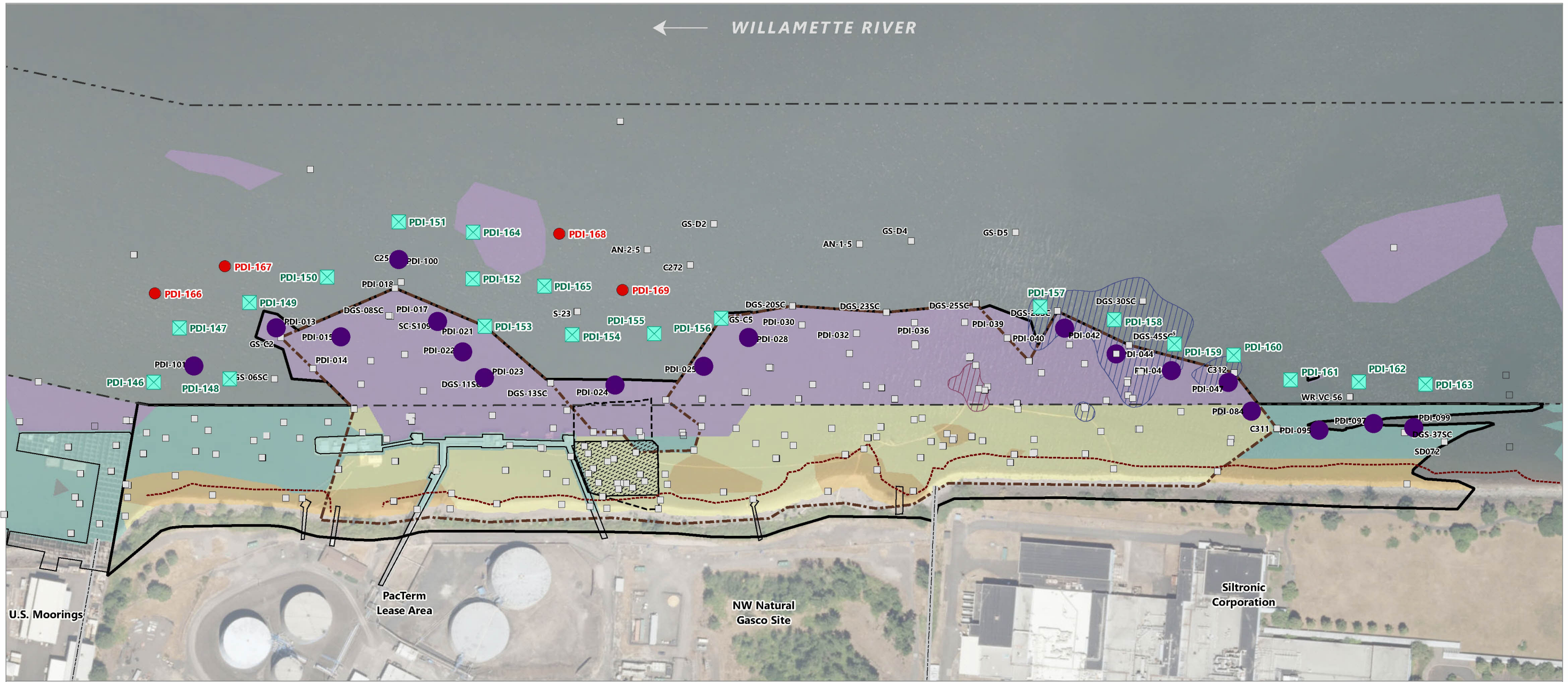
Notes:

Coordinates are in North American Datum of 1983 (HARN91) Oregon State Plane North, International Feet.

HARN91: High Accuracy Reference Network 91

Figure

← WILLAMETTE RIVER



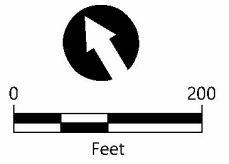
LEGEND:

- | | | |
|--|---|--|
| <ul style="list-style-type: none"> Navigation Channel Structures Property Line Tar Body Removal Action Area (RAPP, Anchor 2005) Tar Body Removal Action Pilot Cap PTW-NAPL Boundary Approximate Riprap Boundary¹ | <ul style="list-style-type: none"> ROD-Identified SMAs (EPA 2017) Included in the Gasco Sediment Site Interim Project Area² ROD SMA Technology² Cap Dredge Dredge in Nav-FMD Dredge with Cap 2010 Transition Zone Water Vinyl Chloride Area 1 Boundary (Anchor QEA 2012)³ Area 2 – Detected CVOCs in TZW and One Subsurface Sediment Location⁴ | <ul style="list-style-type: none"> Existing Subsurface Sample Location Additional Collected Perimeter Subsurface Core Recommended Core Step Out Location Core Location Contains One or More Laterally Unbounded RAL Exceedances On Perimeter of Interim Project Area |
|--|---|--|

NOTES:

1. Estimated from side scan sonar survey conducted by Blue Water Engineering April 2011.
2. All depicted SMA technology and PTW contours taken from the Portland Harbor Superfund Site Record of Decision (2017) without application of the EPA Explanation of Significant Differences (ESD; EPA 2019).
3. Boundary taken from Draft Engineering Evaluation/Cost Analysis, Appendix A, Figure 4.2. Transition zone water screening level exceedances of cis-1,2-dichloroethene identified within this vinyl chloride boundary.
4. Boundary taken from Gasco Sediments Site Statement of Work, Figure 1 (EPA 2009).
5. Only visual observations of PTW-NAPL were

- performed at these core locations (i.e., no chemical results available).
6. Bathymetry surveyed by DEA 2018. Topography surveyed by Geometrix 2011.
7. Arrow indicates direction of flow of river.
8. Horizontal datum is NAD83 (HARN 91) Oregon State Plane North, International Feet.
9. Vertical datum is City of Portland (COP), Feet.
10. Aerial imagery from City of Portland 2018.
11. BML: below mudline



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Figure 1
Proposed Additional Subsurface Sediment Core Locations

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