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

Project Name:	Gasco Sediments Cleanup Action	Subcon	sultant: _	Anchor QEA, LLC		
Field Activity:	tivity:Subsurface Sediment Sampling		_ Request Number: <u>16</u>			
To: Hunter Yo	ung, U.S. Environmental Protection Agency	Date: _	May 20, 2	020		

Description

Following completion of the perimeter cores surrounding the Gasco Sediments Site Project Area, NW Natural submitted and received U.S. Environmental Protection Agency (EPA) approvals on Field Change Request (FCR) Forms No. 10, 12, 13, 14, and 15 regarding the collection of additional perimeter subsurface sediment cores to determine the Final Project Area. The coring work was started on April 20, 2020, and the majority of these additional subsurface sediment cores have been successfully collected and processed with preliminary chemistry results received from the analytical laboratory for a subset of cores.

Visual and olfactory inspection during core processing from two locations (PDI-166 and PDI-167 [Figure 1]) on May 19, 2020, identified sediment layers containing contamination that are considered likely to have concentrations that exceed the Record of Decision Table 21 total polycyclic aromatic hydrocarbon remedial action levels (RALs). Due to these observations, and in order to collect all necessary data for remedial design during this mobilization, NW Natural proposes to collect three additional sediment cores to bound potential RAL exceedances prior to the receipt of analytical data at these stations.

Recommended Change

NW Natural proposes to collect three additional sediment cores less than 150 feet from locations PDI-166 and PDI-167 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 except that chemical analyses will initially be triggered on a minimum three consecutive 1-foot intervals based on visual and olfactory observations made during core processing. The shallowest 1-foot interval sample will be collected from the deepest depth interval containing visual and/or olfactory signs of contamination, and then the next two underlying 1-foot consecutive depth intervals will also be sampled. If no visual or olfactory signs of contamination are present throughout the recovered core depth, the upper 3 feet of the core will be analyzed in consecutive 1-foot intervals and the remainder of the core archived in consecutive 1-foot intervals and the remainder of the core archived in consecutive 1-foot analyzed in consecutive 1-foot intervals and the remainder of the core archived in consecutive 1-foot intervals and the remainder of the core archived in consecutive 1-foot intervals and the remainder of the core archived in consecutive 1-foot intervals and the remainder of the core archived in consecutive 1-foot intervals and the riggered for analysis based on visual or olfactory observations made during core processing.

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Nik Bacher, Anchor QEA

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May 20, 2020

Respondent Field Coordinator (or Designee)

Approval:

Ryan Barth, Anchor QEA

Respondent Project Lead

Signature

Date

Ryan But

Signature

May 20, 2020 **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-173	7623371.33	706488.74
PDI-174	7623505.4	706485.1
PDI-175	7623635.31	706442.65

Notes:

Coordinates are in North American Datum of 1983 (HARN91), Oregon State Plane North, International Feet. HARN91: High Accuracy Reference Network 91

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Figure



Ē,	Navigation Channel		ROD-Identified SMAs (EPA 2017) Included in the		Existi
	Structures		Gasco Sediment Site Interim Project Area ²	\ge	Addi
	Property Line	ROE) SMA Technology ²		Reco
	Tar Body Removal Action Area		Сар		Core Latera
L_j	(RAPP, Anchor 2005)		Dredge		
ĒĒĒ	Tar Body Removal Action Pilot Cap		Dredge in Nav-FMD		On Pe
ĊD.	PTW-NAPL Boundary		Dredge with Cap		
	Approximate Riprap Boundary ¹		2010 Transition Zone Water Vinyl Chloride		
			Area 1 Boundary (Anchor QEA 2012) ³		
			Area 2 – Detected CVOCs in TZW		
			and One Subsurface Sediment Location ⁴		

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Figure 1 **Proposed Additional Subsurface Sediment Core Locations**

Field Change Request No. 16 Gasco Sediments Cleanup Action