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Butte Priority Soils Operable Unit (BPSOU) 2021- Unreclaimed Areas Quality Assurance Project Plan (QAPP), Request for Change (RFC)-01

Mike McAnulty

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Atlantic Richfield Company

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November 30, 2021

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Daryl Reed DEQ Project Officer P.O. Box 200901 Helena, Montana 59620-0901 Jonathan Morgan, Esq. DEQ, Legal Counsel P.O. Box 200901 Helena, Montana 59620-0901

RE: Butte Priority Soils Operable Unit (BPSOU) 2021- Unreclaimed Areas Quality Assurance Project Plan (QAPP), Request for Change (RFC)-01

Agency Representatives:

I am writing to you on behalf of Atlantic Richfield Company to submit the Butte Priority Soils Operable Unit (BPSOU) 2021- Unreclaimed Areas Quality Assurance Project Plan (QAPP), Request for Change (RFC)-01. The document is attached for review and comment. Upon approval, the changes will be incorporated into the referenced QAPP and used to prepare site declarations.

If you have any questions or comments, please call me at (907) 355-3914.

Sincerely,

Mike Mcanulty

Mike Mc Anulty Liability Manager & Global Risk Champion Remediation Management Services Company An affiliate of **Atlantic Richfield Company**



Atlantic Richfield Company

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Cc: Patricia Gallery / Atlantic Richfield - email Chris Greco / Atlantic Richfield – email Josh Bryson / Atlantic Richfield - email Mike Mc Anulty / Atlantic Richfield - email Loren Burmeister / Atlantic Richfield – email Dave Griffis / Atlantic Richfield - email Jean Martin / Atlantic Richfield - email Irene Montero / Atlantic Richfield - email David A. Gratson / Environmental Standards / email Mave Gasaway / DGS - email John Davis / PRR - email Joe Vranka / EPA - email David Shanight / CDM - email Curt Coover / CDM - email James Freeman / DOJ - email John Sither / DOJ - email Jenny Chambers / DEQ - email Dave Bowers / DEQ - email Carolina Balliew / DEQ - email Matthew Dorrington / DEQ - email Jim Ford / NRDP - email Ray Vinkey / NRDP - email Harley Harris / NRDP - email Katherine Hausrath / NRDP - email Meranda Flugge / NRDP - email Ted Duaime / MBMG - email Gary Icopini / MBMG - email Becky Summerville / MR - email Kristen Stevens / UP - email Robert Bylsma / UP - email John Gilmour / Kelley Drye - email Leo Berry / BNSF - email Robert Lowry / BNSF - email Brooke Kuhl / BNSF – email Mark Engdahl / BNSF - email Jeremie Maehr / Kennedy Jenks - email Annika Silverman / Kennedy Jenks - email Matthew Mavrinac / RARUS - email Harrison Roughton / RARUS - email Brad Gordon / RARUS - email Mark Neary / BSB - email Eric Hassler / BSB - email

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File: MiningSharePoint@bp.com - email BPSOU SharePoint - upload

ATLANTIC RICHFIELD COMPANY

RFC - REQUEST FOR CHANGE

		RFC NO. BPSOU-UR-01	CONTRACT Pioneer Techn	OR nical Services, Inc.	RFP NO.	
CONTRACT DESCRIPTION: BPSOU Unreclaimed Sites Scope of Work; Appendix D Attachment C to 2020 CD			ATTENTION Nikia Greene	OF:		
SUBJECT: O ELECTRICAL O MECHANICAL ICIVIL O STRUCTURAL/ARCHITECTURAL O INSTRUMENTATION						
OPERABLE UNIT: Butte Priority Soils MAJOR WORK TASK:			REFERENCE DWG, P.O., TAG, SPECIFICATION NO. (FOR DEVIATIONS OR DEFICIENCIES) ETC.: BPSOU Unreclaimed Sites QAPP			
PROBLEM DESCRIPTION: Table 1 (BPSOU Soil Action Levels for Human Health) of the Unreclaimed Sites Quality Assurance Project Plan (QAPP) (Atlantic Richfield Company, 2021) lists the residential human health action level for mercury as 10 milligrams per kilograms (mg/kg). We believe the action level in Table 1 was inadvertently carried over from Table 2 (BPSOU Soil Screening Criteria for Storm Water Contaminants of Concern [COCs]). Both tables are listed below. Consistent with the Waste Identification Criteria included in Appendix D to the 2020 BPSOU Consent Decree, the mercury action level of 10 mg/kg is intended to be used as a screening level target to be used as an indication of sediment potential contribution to degradation of stream quality and does not apply as a human health action level for residential land use.						
Table 1. BPSOU Soil	Action L	evels for Human Health				
Analyte	Solid M	ledia		Action Levels		
Lead ¹		sidential/ Residential		2,300 mg/kg/1,200 mg/kg		
Arsenic ¹ Mercury ²	Recreat	ional/Commercial/Residential		1,000 mg/kg/500 mg/kg/250 mg/kg 10 mg/kg		
mg/kg: milligrams per kilogram. Table 1. BPSOU Soil Screening Criteria for Storm Water COCs Analyte Action/Screening Levels						
Cadmium 1,2		20 mg/kg				
Copper 1,2		1,000 mg/kg				
Zinc 1,2		1,000 mg/kg				
Lead 1,2		1,000 mg/kg				
Arsenic 1,2	Arsenic 1,2 200 mg/kg					
Mercury 1,2		10 mg/kg				
 From Field Screening Criteria and Procedures Phase 7 and 8 Remedial Action, Streamside Tailings Operable Unit removal action levels (Pioneer, 2011). Screening levels to determine possible remediation efforts. mg/kg: milligrams per kilogram. Atlantic Richfield Company and Butte Silver Bow (BSB) proposes to use the mercury action level of 147 mg/kg for Unclaimed Sites designated as residential land use to be consistent with the Residential Metals Abatement Program (RMAP) and the 2020 RMAP Unilateral Administrative Order Amendment (UAO Amendment) for "Partial Remedial Design/Remedial Action Implementation and Certain Operation and Maintenance at the Butte Priority Soils Operable Unit/Butte Site" (EPA Docket No. CERCLA-08-2011-0011) (EPA, 2020) which states in Exhibit 1, Section 2.1.5 Residential Assessment and Remediation: "One of the primary objectives of the RMAP is to remediate residential yard components to below the residential action levels of 1,200 mg/kg lead, 250 						
mg/kg, arsenic, and 147 mg/kg mercury to a minimum depth of 12 inches (with the exception of vegetable/flower gardens, which will be remediated to a depth of 24 inches) by removing and replacing soil, placing permanent covers, and/or ICs in a manner consistent with the 2006 ROD, the 2011 ESD, and 2020 RODA."						

The Unreclaimed Sites QAPP Table 1, BPSOU Soil Action Levels for Human Health, will be revised as indicated in red below:



Table 1. BPSOU Soil Action Levels for Human Health						
Analyte	Solid Media	Action Levels				
Lead ¹	Non-Residential/ Residential	2,300 mg/kg/1,200 mg/kg				
Arsenic ¹	Recreational/Commercial/Residential	1,000 mg/kg/500 mg/kg/250 mg/kg				
Mercury ² Residential 10 147 mg/kg 1. From EPA Record of Decision (ROD) BPSOU, Table 12-1 (EPA, 2006b). 10 147 mg/kg						
 From Exhibit 1, Section 2.1.5, UAO Amendment (EPA, 2020) (Field Screening Criteria and Procedures Phase 7 and 8 Remedial Action, Streamside Tailings Operable Unit removal action levels (Pioneer, 2011). mg/kg: milligrams per kilogram. 						
The revised mercury human health action level for residential land use will be used for evaluating data collected under the Unreclaimed Sites QAPP (Atlantic Richfield Company, 2021).						
Table 2. BPSOU Soil Screening Criteria for Storm Water COCs will not be revised. The screening level/action level for mercury will remain 10 mg/kg for potential contribution to degradation of stream quality.						
References: Atlantic Richfield, 2021. 2021 Final Unreclaimed Sites Quality Assurance Project Plan (QAPP). Atlantic Richfield Company, June 2021.						
EPA, 2020. U.S. Environmental Protection Agency (EPA) Unilateral Administrative Order Amendment (UAO Amendment) for "Partial Remedial Design/Remedial Action Implementation and Certain Operation and Maintenance at the Butte Priority Soils Operable Unit/Butte Site" (EPA Docket No. CERCLA-08-2011-0011).						
	 Design Deficiency Engineering Change Request Agency Directive Construction Deficiency Schedule 	 Material Substitution Vendor Material Deficiency Scope Clarification/Information Other 				
RESPONSE/DIRE						
Project Manager Date Date						
Atlantic Richfield Co. Representative Mile Mclwulty Date <u>11/30/2021</u> .						
EPA Representativ	/e	Date				
DEQ Representati	ve	Date				
Chris Grecc Josh Bryson Mike Mc A Loren Burn Dave Griffi Jean Martii Irene Mont David A. Gr Mave Gasa John Davis Joe Vranka David Shan Curt Coove James Free	Atlantic Richfield - email Atlantic Richfield – email A Atlantic Richfield - email hulty / Atlantic Richfield - email heister / Atlantic Richfield - email A Atlantic Richfield - email A Atlantic Richfield - email ho / DOJ - email ho / DOJ - email					

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Jenny Chambers / DEQ - email Dave Bowers / DEQ - email Carolina Balliew / DEQ - email Matthew Dorrington / DEQ - email Jim Ford / NRDP - email Ray Vinkey / NRDP - email Harley Harris / NRDP - email Katherine Hausrath / NRDP - email Meranda Flugge / NRDP - email Ted Duaime / MBMG - email Gary Icopini / MBMG - email Becky Summerville / MR - email Kristen Stevens / UP - email Robert Bylsma / UP - email John Gilmour / Kelley Drye - email Leo Berry / BNSF - email Robert Lowry / BNSF - email Brooke Kuhl / BNSF - email Mark Engdahl / BNSF - email Jeremie Maehr / Kennedy Jenks - email Annika Silverman / Kennedy Jenks - email Matthew Mavrinac / RARUS - email Harrison Roughton / RARUS - email Brad Gordon / RARUS - email Mark Neary / BSB - email Eric Hassler / BSB - email Julia Crain / BSB - email Chad Anderson / BSB - email Brandon Warner / BSB – email Abigail Peltomaa / BSB - email Eileen Joyce / BSB - email Sean Peterson/BSB – email Gordon Hart / BSB – email Jeremy Grotbo / BSB – email Josh Vincent / WET - email Craig Deeney / TREC - email Scott Bradshaw / TREC - email Brad Archibald / Pioneer - email Pat Sampson / Pioneer - email Mike Borduin / Pioneer - email Joe McElroy / Pioneer – email Andy Dare / Pioneer – email Karen Helfrich / Pioneer - email Leesla Jonart / Pioneer - email Connie Logan/ Pioneer – email Ian Magruder/ CTEC- email CTEC of Butte - email Scott Juskiewicz / Montana Tech - email File:MiningSharePoint@bp.com - email **BPSOU SharePoint - upload** RFC Logbook

