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# Butte Priority Soils Operable Unit (BPSOU) Draft Final Unreclaimed Sites – Field Sampling Plan (FSP) UR 42 – Area near Walkerville Playground

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# **Atlantic Richfield Company**

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#### August 18, 2023

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Re: Butte Priority Soils Operable Unit (BPSOU) Draft Final Unreclaimed Sites – Field Sampling Plan (FSP) UR 42 – Area near Walkerville Playground

Dear Agency Representatives:

I am writing to you on behalf of Atlantic Richfield Company (Atlantic Richfield) to submit the Butte Priority Soils Operable Unit (BPSOU) Draft Final Unreclaimed (UR) Sites – Field Sampling and Investigation Plan (FSP) for UR 42 – Area near Walkerville Playground (Butte Remediation Evaluation System [BRES] No. 20).

As described in Appendix D, Attachment C to the 2020 BPSOU Consent Decree (CD) (available at <a href="https://www.co.silverbow.mt.us/2161/ButtePriority-Soils-Operable-Unit-Consent-Decree">https://www.co.silverbow.mt.us/2161/ButtePriority-Soils-Operable-Unit-Consent-Decree</a>), known areas listed as UR Solid Media Sites within the BPSOU, along with additional sites identified for remedial actions, may have potentially been impacted by historical mining. The UR sites may pose a threat to human health, contribute metals-impacted sediments to existing or planned wet weather control features, or contribute to the degradation of surface water quality.

A site evaluation will be performed using the means and methods provided in the Atlantic Richfield Final *UR Sites Quality Assurance Project Plan (QAPP)* (referred to herein as UR Sites QAPP; see Attachment 1). The results from the site evaluations will be used to prepare a site declaration and assist with determination of site-specific response actions. Remedial action will be performed following Agency approval of pertinent site-specific remedial action work plans. A link to the UR Sites QAPP is provided in Attachment 1.

This FSP provides details related to the field evaluation of the UR-42 area near the Walkerville Playground (BRES No. 20). The sampling boundary and proposed soil sampling stations are shown on Figure 1.



Field sampling will be performed to determine whether contaminants are present, whether the site is contributing metals-impacted sediment to existing or planned wet weather control features, whether historical mine waste at the site is contributing to the degradation of surface water quality, and whether there are previously unidentified conditions contributing to site deficiencies.

The site evaluation is anticipated to be completed in 2023, after which a site summary and declaration will be prepared to present all available data. The site will be evaluated following the residential land use Soil Action Levels for Human Health and Soil Screening Criteria for Waste Identification under the UR Sites QAPP. If required, remedial action will be performed following Agency approval of pertinent site-specific remedial action work plans.

A list of previously approved FSPs is provided in Attachment 2.

The crosswalk list provided below references where pertinent field sample collection and documentation elements are discussed.

	Reference Location		
Element	FSP	UR Sites QAPP	
Title Page and Approval Authority	Approval Letter	Page i	
Site Introduction and Appropriate Agency-Approved QAPP* Reference	Page 1, Page 2		
Data Quality Objectives		Section 2.5	
Site and Sampling Objectives	Figure 1	Section 3.0	
Proposed Schedule for Site Field Work	Page 2		
Site Figure	Figure 1		
Sampling Procedures and Standard Operating Procedures (SOPs)		Section 3.2 Appendix B	
Sample Analysis Methods		Section 3.3	

# **Background**

The UR-42 site is located east of Walkerville Playground (Butte Remediation Evaluation System [BRES] No. 20) and between Dunn Avenue and Clayton Street in Walkerville, Montana. As described in the BPSOU Source Areas and Reclaimed Boundary Adjustments <sup>1</sup>, reclamation was originally completed within the existing adjacent BRES No. 20 site boundary in 1988 and included site grading and capping with cover soil and revegetating the area. Reclamation occurred again in 2013 and included storm water control improvements. A gravel berm captures flow from Clayton Street and

<sup>&</sup>lt;sup>1</sup> Atlantic Richfield Company and Butte-Silver Bow, 2022. Draft Final Source Areas and Reclaimed Boundary Adjustments. Prepared by Pioneer Technical Services, Inc. April 4, 2022.

discharges south into the east inlet on Clayton Street. This inlet discharges west through a 1-foot high-density polyethylene (HDPE) pipe to the west inlet at the base of the slope. A V-ditch, gravel-lined channel at the base of the slope discharges south into the west inlet. No other reclamation has been documented on the site.

Site UR-42 is a steep area, and residents use portions of the site for personal storage and access to the Walkerville Playground. The V-ditch is not visible, however storm water inlets on the top of Clayton Street and the southeast corner of the basketball court were located.

The Walkerville Playground (BRES No. 20) is adjacent to the proposed UR-42 site and will be sampled following the Park Soil Sampling QAPP<sup>2</sup> under the RMAP program. Sampling efforts for Walkerville Playground are expected to take place in 2023.

## **Previous Sampling Efforts**

The Geocortex web-based database at <a href="https://eis2.woodardcurran.com/Html5Viewer/index.html?viewer=BPButte.BPSOU">https://eis2.woodardcurran.com/Html5Viewer/index.html?viewer=BPButte.BPSOU</a> contains the records for previous soil samples collected within the BPSOU. No previous sampling efforts were found on BRES No. 20 - Walkerville Playground. Two previous sample locations were found on other nearby BRES sites: BRES 21 and BRES 1583. The BPSOU action levels are listed in Table 1 and Table 2 of the UR Sites QAPP Section 2.5.

### **Preliminary Site Evaluation**

A preliminary site visit was conducted during development of this sampling plan to qualify current site conditions and identify areas of focus for additional evaluation. Photograph 1 through Photograph 3, taken during the preliminary site inspection, show current site conditions. The site investigation found the site to have a steep slope from Clayton Street to BRES No. 20. This area is well vegetated with weeds present throughout the site. No barren areas were found on the site.

<sup>&</sup>lt;sup>2</sup> Atlantic Richfield Company and Butte-Silver Bow, 2023. Draft Final 2023 Residential Metals Abatement Program (RMAP) Quality Assurance Project Plan (QAPP) Annual Update (Non-Residential Parcels). Prepared by Pioneer Technical Services, Inc. June 7, 2023.

<sup>&</sup>lt;sup>3</sup> Sampling was completed at BRES No. 158 in 2022 under the Insufficiently Reclaimed Further Remedial Elements Scope of Work (FRESOW).



Photograph 1: Site overview from Clayton Street.



Photograph 2: Site overview from the BRES No. 20 basketball court.

Butte-Silver Bow, the city of Walkerville, and ARCO Environmental Remediation LLC own the site, which has a steep slope that has a tier (bench) on the upper southeast portion. It appears a private property owner flattened this area and made a rock support wall to store a personal trailer. Another private property owner is using the north portion of the site for personal storage as well.



Photograph 3: Sediment from properties above Clayton Street.

Sediment migration is evident along the upper east portion of the site. The vegetation on the site edge and the storm water inlet prevent sediment from migrating onto the site, however a significant amount is located on Clayton Street.

Figure 1 illustrates the proposed sample stations as sited during the preliminary site evaluation.

#### **Site Characterization Plan**

Per the UR Sites QAPP, the site will be sampled from three depth intervals [(1) 0 to 2 inches, (2) 2 to 6 inches, and (3) 6 to 12 inches]. Opportunistic samples may be obtained in the field at the discretion of field sampling personnel or Agency oversight representative(s). The field team leader will be responsible for determining the appropriate sampling number and depth of samples as dictated by field conditions.

Results will be used to prepare the site declaration and prescribe site remedial improvements. The overall site will be sampled following the procedures in the UR Sites QAPP to determine the spatial characterization of waste, extent of transient material, and concentrations which exceed levels

listed in Table 1 or Table 2 of the UR Sites QAPP. Results will be used to assist in the determination of the final site declaration.

### **Sampling Procedure**

All soil sampling and characterization activities and procedures within the site boundary will follow the UR Sites QAPP. Samples will be obtained from the sample stations listed below. The UR Sites QAPP also describes the quality assurance/quality control policies and procedures that will be used during sample collection and analyses.

Sample Station	Three Depth Intervals			
	(inches)			
UR-42-SS01	(1) 0-2, (2) 2-6, and (3) 6-12			
UR-42-SS02	(1) 0-2, (2) 2-6, and (3) 6-12			
UR-42-SS03	(1) 0-2, (2) 2-6, and (3) 6-12			

This field work is anticipated to be completed in 2023, depending on site conditions.

## **Site Summary Report and Declaration**

After the site evaluation and data collection activities are complete, a site evaluation summary report will be prepared and submitted to the Agencies for review and approval. The report will include a summary of all available site sampling data and a site declaration specifying any deficient criteria as specified in the CD.

If you have questions or comments, please do not hesitate to call me at (907) 355-3914.

Sincerely,

Mike Mednulty

Mike Mc Anulty
Liability Manager
Remediation Management Services Company
An affiliate of **Atlantic Richfield Company** 

#### Attachments:

Figure 1 – Unreclaimed Reclaimed Sites BRES No.20 – Area near Walkerville Playground Proposed Sample Stations

Attachment 1 – Document Links Attachment 2 – FSP Packages Cc: 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

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John DeJong / UP - email

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John Gilmour / Kelley Drye - email

Leo Berry / BNSF - email

Robert Lowry / BNSF - email

Brooke Kuhl / BNSF – email

Lauren Knickrehm / BNSF - email

Doug Brannan / 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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Josh Vincent / WET - email

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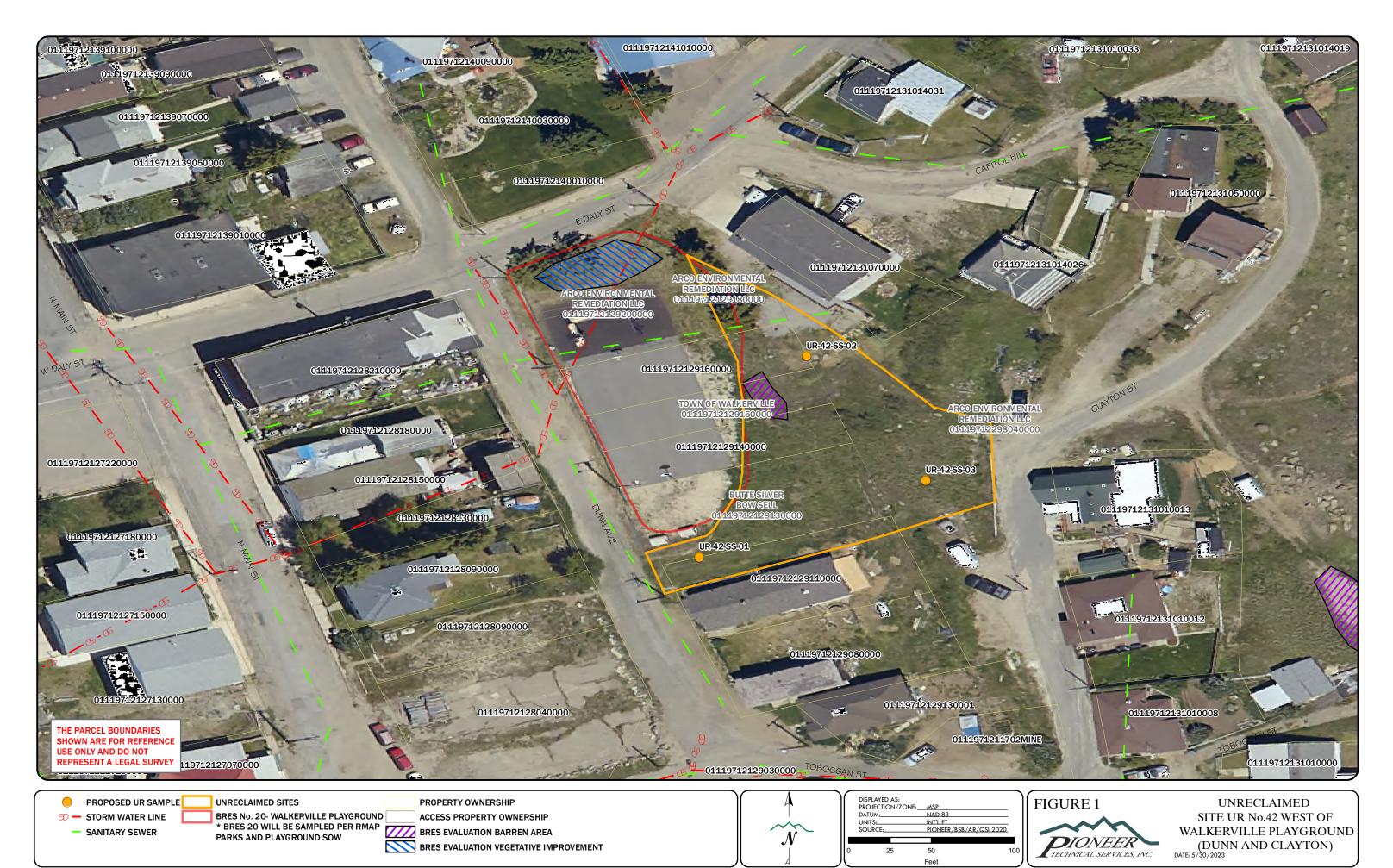
Emily Stoick / W&C - email

Pat Sampson / Pioneer – email Andy Dare / Pioneer – email Karen Helfrich / Pioneer – email Randa Colling / Pioneer – email Ian Magruder/ CTEC – email CTEC of Butte – email Scott Juskiewicz / Montana Tech – email

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

# Figures

Figure 1 – Unreclaimed Site UR 42 – Area near Walkerville Playground Proposed Sample Stations



# Attachment 1 Document Links

# **Document Links**

 $\frac{https://pioneertechnicalservices.sharepoint.com/:f:/s/submitted/EtZbDgcepsdEie6VxUMdW88BbK}{opRVYj5ZsLN0sG3RKrhA}^4$ 

<sup>&</sup>lt;sup>4</sup> Please note the link provided is valid for one year from the date of this submittal.

# Attachment 2 FSP Submittal List

FSP Package	Sites Included in FSP Package	Status	Agency Submittal Date	Approval Date	Field Implementation	Sites Sampled 2021	Sites Sampled 2022
1	UR-23, 31, 32, and 39	Final	5/19/2021	6/8/2021	6/29/2021	32,39	-
2	UR-24, 26, and 40	Final	6/30/2021	8/27/2021	8/31/2021	24, 40	-
3	UR-06, 07, 20, 22, 35, and 36	Final	7/3/2021	8/27/2021	8/31/2021	35, 36	06, 07, 20, 22
4	UR-16 and 21	Final	8/20/2021	8/30/2021	9/7/2021	-	-
5	UR-12, 13, 33, and 38	Final	8/23/2021	8/30/2021	9/8/2021	38, 33	13, 12
6	UR-05, 27, 28, 29, 30, and 34	Final	10/14/2021	10/27/2021	11/4/2021	05, 30, 34	28
7	UR-01, 02, 03, 04, 15, 17, and 37	Final	10/14/2021	10/27/2021	10/28/2021	01, 03	-
8	UR-42	Draft Final	8/18/2023			-	-
9	UR-43	Draft Final	8/18/2023			-	-