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Response to Comments to the Butte Priority Soils Operable Unit (BPSOU) Unreclaimed Sites Draft Final Field Sampling Plan (FSP) Package #7: UR-01, UR-12, UR-03, UR-04, UR-15, and UR-17

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October 18, 2021

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RE: Response to Comments to the Butte Priority Soils Operable Unit (BPSOU) Unreclaimed

and UR-17

Agency Representatives:

I am writing to you on behalf of Atlantic Richfield Company to provide response to comments to the Butte Priority Soils Operable Unit (BPSOU) Unreclaimed Sites Draft Final Field Sampling Plan (FSP) Package #7: UR-01, UR-12, UR-03, UR-04, UR-15, and UR-17 provided by the Agencies on September 27, 2021. The revised plan may be downloaded at the following link:

Sites Draft Final Field Sampling Plan (FSP) Package #7: UR-01, UR-12, UR-03, UR-04, UR-15,

https://pioneertechnicalservices.sharepoint.com/:b:/s/submitted/EZcENghSErpJnAC6vJ1Om0ABML9 WfXZS4agir0nM7sdA

Agency Comments:

Site: UR-01 Between Ryan Rd. and Alice St., UR-04 NW Corner of Center St. and Idaho St, and UR-15 S of Ryan Rd and W of 4th St:

Please remove "J" within Table 1 in the concentrations for Arsenic, Copper, Zink or define what the "J" represents.

Atlantic Richfield Response: Atlantic Richfield respectfully declines altering final data. As noted in the FSP #7 text, sample data were obtained from the BPSOU Geocortex web-based database, which contains final data from previous sampling activities. The letter "J" accompanying sample results typically indicates specific criteria may not have been met when analysis was performed, and results are considered qualified. These criteria are dependent upon laboratory protocol. Laboratory data qualifiers are defined in the data



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deliverable provided by the laboratory which performed the analysis. The U.S. Environmental Protection Agency (EPA) 2020 National Functional Guidelines for Inorganic Superfund Methods Data Review provides the following definition for J qualified data. "The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample." The text has been updated accordingly.

All Figure:

Please remove the private property owner names or business names from all figures.

Atlantic Richfield Response: Private property ownership and business names have been removed from figures and text.

End of Comments

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

Sincerely,

Mike Mednulty

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



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Robert Bylsma / UP - email

John Gilmour / Kelley Drye - email

Leo Berry / BNSF - email

Robert Lowry / BNSF - email

Brooke Kuhl / BNSF – email

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

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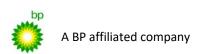
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Butte Priority Soils Operable Unit (BPSOU) Unreclaimed Sites Final Field Sampling Plan (FSP) Package #7: UR-01, UR-02, UR-03, UR-04, UR-15, and UR-17

Dear Agency Representatives:

As described in Appendix D, Attachment C to the 2020 Consent Decree, areas listed as Unreclaimed Solid Media Sites within Butte Priority Soils Operable Unit (BPSOU) may have potentially been impacted by historic mining and therefore 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. There are a total of 39 unclaimed sites, multiple sites will be organized in a package for approval.

Field sampling plan (FSP) package #7 (FSP Package #7) includes Unreclaimed (UR) Sites UR-01, UR-02, UR-03, UR-04, UR-15, and UR-17. Site evaluations will be performed using means and methods provided in the Atlantic Richfield Company Final Unreclaimed Sites Quality Assurance Project Plan (QAPP) published October 12, 2018, which was prepared in accordance with U.S. Environmental Protection Agency (EPA) guidance documents EPA QA/R-5 and EPA QA/G-5 for QAPP development. The QAPP was updated in 2021 (referred to herein as UR Sites QAPP) as a component of the BPSOU Solid Media Management Project Plan. Results from site evaluations will be used to prepare site declarations and assist with determination of site remediation requirements. Site evaluations will begin in the third quarter 2021 and are anticipated to be completed 2022, or as site access allows. Site declarations for sites sampled in 2021 are anticipated to be provided for Agency review and approval by the end of 2021. Declarations of sites sampled after 2021 will be provided as soon as feasible. Remedial action will be performed following Agency approval of pertinent site-specific remedial action work plans.



A preliminary list of FSP packages, provided below, will be updated to record the status and progress related to FSP package submittals.

Package	Sites	Submittal Date	Approval Date
1	UR-23, 31, 32, and 39	May 19, 2021	June 8, 2021
2	UR-24, 26, and 40	June 30, 2021	August 27, 2021
3	UR-06, 07, 20, 22, 35, and 36	July 2, 2021	August 27, 2021
4	UR-16 and 21	August 20, 2021	August 30, 2021
5	UR-12, 13, 33, and 38	August 23, 2021	August 30, 2021
6	UR-05, 27, 28, 29, 30, and 34	September 14, 2021	TBD
7	UR-01, 02, 03, 04, 15, and 17	September 14, 2021	TBD

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.		Page i
Introduction and appropriate Agency-approved UR Sites QAPP reference.	Х	
Goals and objectives of sampling.		Section 2.4, 3.2
Proposed schedule for field work.	Χ	
Site figure including sampling locations, number, and depth of samples to be collected, and sample field identification.	х	Section 3.2.1
Field activity methods and procedures, standard operating procedures.		Section 3.2, Table 4
Sample labeling and shipping.		Section 3.2.5, Appendix C
Sample analysis, specifying X-ray fluorescence (XRF) vs. laboratory analysis and laboratory name.		Section 3.3
Figure showing the site and/or area represented by a sample, sample ID, and aliquot locations for composite samples.	х	

Soil sampling is proposed for FSP Package #7 at 6 UR Sites located in the uptown area of Butte, Montana, south of Walkerville. The results of the soil sampling will be used to support the site declaration and potential future remediation requirements for each site. This FSP is consistent with Section 3.0 Data Acquisition protocol described in the UR Sites QAPP. These 6 UR Sites vary from 0.3 acres to 12.8. Sites UR-01, 02, 03, and 15 are located along the northern outskirts of Butte and are vacant lots that appear to have motor vehicle travel across various parts of the sites. Sites UR-4 and 17 are located near residential housing. Each site is discussed separately below. The

attachments at the end of this document include figures for each site showing the proposed soil sampling locations.

Site: UR-01 Between Ryan Rd. and Alice St.

Background

Site UR-01 is approximately 9.2 acres and is located north of Walkerville and just north of the Alice Pit. Site UR-01 is bounded on the south by North Alice Street and on the north by Ryan Road (Figure 1). Ownership of Site UR-01 includes Atlantic Richfield Company and a private third party.

Site UR-01 is vacant land with well-established vegetation and several bare areas including windrows of dumped material. The dumped material is covered with established weeds and grasses. Erosion rill starting from the middle of the site running northwest into the drainage ditch appears to have iron staining and impacted soils. There are residences within 200 feet of UR-01 in several directions. Site UR-01 is in the Beef Straight Gulch drainage basin.

Previous Sampling Efforts

Data obtained from the Geocortex web-based database at https://eis2.woodardcurran.com/Html5Viewer/index.html?viewer=BPButte.BPSOU contain the record for one previous soil sample near Site UR-01. Arsenic sample results contain the letter "J" which is indicative of a data qualifier. The letter "J" accompanying sample results typically indicates specific criteria may not have been met when analysis was performed, and results are considered qualified. These criteria are dependent upon laboratory protocol. Laboratory data qualifiers are defined in the data deliverable provided by the laboratory which performed the analysis. The EPA 2020 National Functional Guidelines for Inorganic Superfund Methods Data Review provides the following definition for J qualified data, "The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample." The approximate sample location is shown on Figure 1 with the results provided in Table 1 below. None of the results listed exceed the BPSOU action levels. The BPSOU action levels are listed in Tables 1 and 2 of the UR Sites QAPP.

Table 1: Previous Sampling Results from BPSOU
Soil Sampling
(units are milligrams per kilograms)

	Sample Station ID	
COC	WD-029	
Arsenic	25 J	
Cadmium	5	
Copper	103	
Lead	33	
Zinc	152	
Sample Date	6/18/87	

COC: contaminant of concern. J: estimated result.

Site: UR-02 E. Scrap H Point Rd. Near Moose Dump

Background

Site UR-02 is approximately 12.8 acres and is located east of Scrap H Point Road in Walkerville near Moose Dump (BRES No. 12). Site UR-02 is bounded by a 4-strand barbed wire fence on the west along Scrap H Point Road (Figure 2). Site UR-02 is located on property owned by Atlantic Richfield Company and a private third party.

Site UR-02 is vacant land with several bare areas and heavily impacted with mining waste including debris and garbage dumps. The Moose Ditch (AB-D-S001) riprap-lined drainage channel is located between the barbed fence and Scrap H point.

Previous Sampling Efforts

Data obtained from the Geocortex web-based database at https://eis2.woodardcurran.com/Html5Viewer/index.html?viewer=BPButte.BPSOU contain the records for previous soil samples near Site UR-02. The approximate sample locations are shown on Figure 2 with the results provided in Table 2 below. Results above BPSOU action levels are highlighted in Table 2. The BPSOU action levels are listed in Tables 1 and 2 of the UR Sites QAPP.

Table 2: Previous Sampling Results from BPSOU
Soil Sampling
(units are milligrams per kilograms)

	Sample Station ID		
COC	WD-075	WD-076	
Arsenic	128	108	
Cadmium	42	36	
Copper	314	360	
Lead	<mark>2,210</mark>	<mark>3,200</mark>	
Zinc	<mark>10,000</mark>	<mark>7,220</mark>	
Sample Date	6/9/1987	6/9/1987	

COC: contaminant of concern.

Site: UR-03 S. of Dewey Point Rd. and Rising Star Rd. near Surprise Dump

Background

Site UR-03 is approximately 0.3 acres and is located in the northwest part of Walkerville. The site is southwest of the intersection of Rising Star Road and Harrison Street (or Dewey Point Road) (Figure 3). The majority of Site UR-03 is owned by Atlantic Richfield Company. A small portion in the south part of Site UR-03 is owned by a private third-party resident.

Site UR-03 is vacant land and almost the entire site consists of several lobes of waste rock dumps. The site is mostly bare ground. On top of the piles there are approximately 3-foot diameter sink holes or small excavation activity. A residential area in Walkerville is located about 400 feet to the southeast of UR-03. Site UR-03 is in the Beef Straight Gulch drainage basin.

Previous Sampling Efforts

There is no record of previous soil sampling at Site UR-03 nor in its vicinity.

Site: UR-04 NW Corner of Center St. and Idaho St.

Background

Site UR-04 is approximately 0.9 acres. It is located slightly south of Walkerville and just northwest of the intersection of North Idaho and Center Streets (Figure 4), on the east side of the Missoula Gulch drainage. Site UR-04 consists of a poorly vegetated, southwest facing slope that is immediately southwest of the former Missoula Mine yard. An especially steep area in the middle of the site appears to consist of mine waste, based on yellow color and clayey texture of the soil. The south lobe of site UR-04 has better vegetation than the rest of the site, but there are still bare areas and a dump area that may contain waste rock.

Site UR-04 is owned by a private third-party. Site UR-04 is vacant land in a largely open-space area. There are several residences about 150 feet south of Site UR-04 along Missoula Avenue. Site UR-04 is in the Missoula Gulch drainage basin.

Previous Sampling Efforts

Data obtained from the Geocortex web-based database at https://eis2.woodardcurran.com/Html5Viewer/index.html?viewer=BPButte.BPSOU contain the record for previous soil samples within or near Site UR-04. Some sample results contain the letter "J" which is indicative of a data qualifier. The letter "J" accompanying sample results typically indicates specific criteria may not have been met when analysis was performed, and results are considered qualified. These criteria are dependent upon laboratory protocol. Laboratory data qualifiers are defined in the data deliverable provided by the laboratory which performed the analysis. The EPA 2020 National Functional Guidelines for Inorganic Superfund Methods Data Review provides the following definition for J qualified data, "The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample." The approximate sample locations are shown on Figure 4 with the results provided in Table 3 below. Some of the results listed show exceedances of BPSOU action levels for lead and zinc (highlighted in yellow). The BPSOU action levels are listed in Tables 1 and 2 of the UR Sites QAPP.

Table 3: Previous Sampling Results Near Site UR-04 (units are in milligrams per kilogram)

(4						
	Sample Station ID					
сос	08-05	08-04	08-03	08-06	WD-018	WD-019
Arsenic	33	35	44	73	67 J	63 J
Cadmium	4	6	2	6	14 J	13 J
Copper	324	258	122	157	146	128
Lead	651	<mark>1,320</mark>	771	<mark>1,820</mark>	<mark>2,080</mark>	430
Zinc	<mark>1,210</mark>	<mark>1,780</mark>	979	<mark>2,260</mark>	<mark>3,190</mark>	<mark>2,720</mark>
Date	4/18/1994	4/18/1994	4/18/1994	4/18/1994	6/16/1987	6/16/1987

COC: contaminant of concern. J: estimated result.

Site: UR-15 S of Ryan Rd and W of 4th St.

Background

Site UR-15 is approximately 3.8 acres and is located north of Walkerville and south of Ryan Road. The east end of Site UR-15 is at the southwest intersection of Ryan Road and Fourth Street (Figure 5). The site extends about 1,000 feet to the west of the intersection and is totally on the south side of Ryan Road. The site consists mostly of waste rock dumps that are bare. Beef Straight Creek forms part of the south border of Site UR-15 and also cuts through a portion of it. Ownership of Site UR-15 includes Butte-Silver Bow, Atlantic Richfield Company, and private third-party owners.

Site UR-15 is vacant land that has poor vegetation. The nearest residences are about 600 feet to the north and to the south. Site UR-15 is in the Beef Straight Gulch drainage basin.

Previous Sampling Efforts

Data obtained from the Geocortex web-based database at https://eis2.woodardcurran.com/Html5Viewer/index.html?viewer=BPButte.BPSOU contain the records for previous soil samples within or near Site UR-15. The approximate sample locations are shown on Figure 5 with the results listed in Table 4 below. Some of the results listed show exceedances of the BPSOU action levels for lead and zinc (highlighted in yellow). The BPSOU action levels are listed in Tables 1 and 2 of the UR Sites QAPP.

Table 4: Previous Sampling Results from BPSOU Soil Sampling (units are milligrams per kilograms)

	Sample Station ID		
COC	DR-002 FSUA-117		
Arsenic	120 J	27	
Cadmium	4	NA	
Copper	125	217	
Lead	131	<mark>2,680</mark>	
Zinc	386	<mark>2,680</mark>	
Sample Date	ample Date 7/8/87 6/21/96		

COC: contaminant of concern. NA: not analyzed. J: estimated result.

Site: UR-17 Upper Missoula Gulch – Surrounding Areas

Background

Site UR-17 is approximately 5.0 acres and is located in the upper reaches of the Missoula Gulch drainage on the south side of Walkerville (Figure 6) and consists of two non-contiguous UR areas to be evaluated. The site occupies a south-facing slope between a residential part of Walkerville and the bottom of Missoula Gulch. Ownership of Site UR-17 includes Atlantic Richfield Company, Butte-Silver Bow, and private third parties.

Areas comprising Site UR-17 are vacant land near residential areas with relatively good vegetation throughout the southwest section. There is an access road from 4th Street that contains a small gulley and apparent impacted soils. The northeast section of the site has large bare areas with high manganese and iron staining. There are cars on top of the steep slopes that appear to have oil leaks running down the slope. Scrap metal and glass are found through the section with variants of soil colors and erosion. Site UR-17 is in the Missoula Gulch drainage basin.

Previous Sampling Efforts

Data obtained from the Geocortex web-based database at https://eis2.woodardcurran.com/Html5Viewer/index.html?viewer=BPButte.BPSOU contain the records for previous soil samples within Site UR-17. The approximate sample locations are shown on Figure 6 with the results listed in Table 5 below. Some of the results listed show exceedances of the BPSOU action levels for lead and zinc (highlighted in yellow). The BPSOU action levels are listed in Tables 1 and 2 of the UR Sites QAPP.

Table 5: Previous Sampling Results from BPSOU Soil Sampling (units are milligrams per kilograms)

	Sample Station ID		
COC	08-01	038WA05-0	
Arsenic	150	34	
Cadmium	3	6	
Copper	270	106	
Lead	441	<mark>1,025</mark>	
Zinc	461	<mark>1,840</mark>	
Sample Date	4/18/94	11/10/94	

COC: contaminant of concern.

Unreclaimed Sites Quality Assurance Project Plan

All field work and soil analysis will be completed in accordance with the UR Sites QAPP. The QAPP will be reviewed annually and updated as needed on Agency review and approval. Soil sampling will be conducted at the 6 UR Sites at depth intervals of 6 to 12 inches, 2 to 6 inches, and 0 to 2 inches. Sampling will take place in that order from the deepest interval (6 to 12 inches) to the shallowest interval (0 to 2 inches). Proposed sample locations for each site are shown on Figures 1 through 6.

Sampling Procedure

All sampling procedures are to be followed according to the UR Sites QAPP, which describes the activities necessary to conduct soil sampling and characterization activities on UR Sites within BPSOU. It also describes the quality assurance/quality control policies and procedures to be used during collection and analysis. Implementation of this fieldwork will likely commence in the fall of 2021 and resume in spring 2022, assuming that access has been obtained for all subject parcels.

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 Site UR-01 Proposed Sample Locations Figure 2 Unreclaimed Site UR-02 Proposed Sample Locations Figure 3 Unreclaimed Site UR-03 Proposed Sample Locations Figure 4 Unreclaimed Site UR-04 Proposed Sample Locations Figure 5 Unreclaimed Site UR-15 Proposed Sample Locations Figure 6 Unreclaimed Site UR-17 Proposed Sample Locations

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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

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