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Draft Final 2022 Residential Metals Abatement Program (RMAP) Park Soil Sampling Field Sampling Plan (FSP) Submittal #1 [Covering Walkerville Ball Park, Antimony Ball Field, Walkerville Park (Walkerville Drive & Ryan Road), Walkerville Park (5th & Transit), & Walkerville Park (Alley of North Main & Alley of West Daly)]

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June 14, 2022

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RE: Draft Final RMAP Park Soil Sampling Field Sampling Plan (FSP) Submittal #1 [Covering Walkerville Ball Park, Antimony Ball Field, Walkerville Park (Walkerville Drive & Ryan Road), Walkerville Park (5th & Transit), and Walkerville Park (Alley of North Main & Alley of West Daly)]

Agency Representatives:

I am writing to you on behalf of Atlantic Richfield Company to submit the Draft Final Residential Metals Abatement Program (RMAP) Park Soil Sampling Field Sampling Plan Submittal #1 which addresses soil sampling at Walkerville Ball Park, Antimony Ball Field, Walkerville Park (Walkerville Drive & Ryan Road), Walkerville Park (5th & Transit), and Walkerville Park (Alley of North Main & Alley of West Daly) under the RMAP program. The report, tables, and figures may be downloaded at the following link:

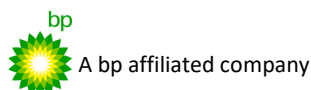
<https://pioneertechnicalservices.sharepoint.com/:f/s/submitted/EhG69vOpanBEog4Dlf0NAXcBHuwkgPKGjfnK-SAcqit7vw>.

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

Sincerely,



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An affiliate of **Atlantic Richfield Company**



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Joe Vranka / EPA - email
David Shanight / CDM - email
Curt Coover / CDM - email
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John Sither / DOJ - email
Dave Bowers / DEQ - email
Carolina Balliew / DEQ - email
Matthew Dorrington / DEQ – email
Wil George / DEQ – email
Jim Ford / NRDP - email
Pat Cunneen / NRDP - email
Harley Harris / NRDP - email
Katherine Hausrath / NRDP - email
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Gary Icopini / MBMG - email
Becky Summerville / MR - email
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Leo Berry / BNSF - email
Robert Lowry / BNSF - email
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Craig Deeney / TREC - email
Scott Bradshaw / TREC - email
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Scott Juskiewicz / Montana Tech – email

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

**SILVER BOW CREEK/BUTTE AREA NPL SITE
BUTTE PRIORITY SOILS OPERABLE UNIT**

Draft Final

*2022 Residential Metals Abatement Program (RMAP)
Park Soil Sampling Field Sampling Plan (FSP)*

Submittal #1

*[Covering Walkerville Ball Park, Antimony Ball Field,
Walkerville Park (Walkerville Drive & Ryan Road),
Walkerville Park (5th & Transit), & Walkerville Park
(Alley of North Main & Alley of West Daly)]*

Butte-Silver Bow County

and

Atlantic Richfield Company

June 14, 2022

**SILVER BOW CREEK/BUTTE AREA NPL SITE
BUTTE PRIORITY SOILS OPERABLE UNIT**

Draft Final

***2022 Residential Metals Abatement Program (RMAP)
Park Soil Sampling Field Sampling Plan (FSP)***

Submittal #1

***[Covering Walkerville Ball Park, Antimony Ball Field,
Walkerville Park (Walkerville Drive & Ryan Road),
Walkerville Park (5th & Transit), & Walkerville Park
(Alley of North Main & Alley of West Daly)]***

Prepared for:

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Butte, Montana 59701

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June 14, 2022

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LIST OF ATTACHMENTS

Attachment A Final Residential Metals Abatement Program (RMAP) Quality Assurance Project Plan (QAPP) (Non-Residential Parcels)

DOCUMENT MODIFICATION SUMMARY

Modification	Author	Version	Description	Date
0	Jesse Schwarzrock	Draft Final	Issued for Agency Review	06/14/22

1.0 INTRODUCTION

This Field Sampling Plan (FSP) was developed to outline a portion of the 2022 Residential Metals Abatement Program (RMAP) park/play area soil sampling plan for Butte, Montana, area parks. Soil sampling procedures, data quality objectives (DQOs), standard operating procedures (SOPs), sampling analytical methods, sampling equipment, quality control (QC) samples, and data validation and assessment will be according to the *Final Residential Metals Abatement Program (RMAP) Quality Assurance Project Plan (QAPP) (Non-Residential Parcels)* (Butte-Silver Bow County and Atlantic Richfield Company, 2022) (referred to herein as QAPP), provided in Attachment A.

2.0 PARK SOIL SAMPLING SCOPE

The scope of work covered by this FSP includes the following parks:

- Walkerville Ball Park.
- Antimony Ball Field.
- Walkerville Park (Walkerville Drive and Ryan Road).
- Walkerville Park (5th and Transit).
- Walkerville Park (Alley of North Main and Alley of West Daly).

The attached figure set (Figure 1 through Figure 5) depicts the areas that will be sampled and shows the individual sampling polygons and associated areas. Table 1 lists the park properties (along with Resident ID's, geocodes, and ownership information), and Table 2 shows the anticipated sampling quantities for the parks covered by this FSP.

3.0 PARK SOIL SAMPLING SCHEDULE

Sampling schedules will be finalized through ongoing conversations with appropriate representatives. Pending Agency approvals, sampling efforts will begin in June 2022. The appropriate utility locating service (i.e., One Call Utility Locate Services) will be contacted and informed of sampling activities 48 hours prior to commencing soil sampling activities.

4.0 FIELD SAMPLING PLAN

4.1 Soil Sampling Procedures

Soil sampling procedures will be completed as stated in Section 3.2 (for composite sampling) and Section 3.3 (for incremental sampling) of the QAPP (Attachment A).

4.1.1 Soil Sampling Density, Location, and Compositing

Soil sampling density, location and compositing decisions will be made according to the information provided in Section 3.2.1 (for composite sampling) and Section 3.3.1 (for incremental sampling) of the QAPP (Attachment A).

4.1.2 Soil Sampling Depths

Sampling depths will be selected as stated in Section 3.2.2 (for composite sampling) and Section 3.3.2 (for incremental sampling) of the QAPP (Attachment A).

4.1.3 Equipment Decontamination

Reusable sampling equipment will be decontaminated as described in Section 3.2.4 (for composite sampling) and Section 3.3.4 (for incremental sampling) of the QAPP (Attachment A).

4.2 Sampling Polygon Delineation

The reasoning behind the delineation of sampling polygons is documented below. This information was collected from Butte-Silver Bow representatives as well as site visits. Field sampling crews will have the flexibility to make minor modifications to these polygons in the field as needed (e.g., if crews discover a garden area that was not previously delineated, they will have the ability to add it to the plan and sample accordingly) in consultation with the Agencies' field representative.

4.2.1 Walkerville Ball Park

- Land Use Category #1 (Playgrounds) – This land use category is not applicable at this park.
- Land Use Category #2 (high access areas/barren sports areas) – The ballpark infield area has an aggregate cover. As such, it has been designated a high access area. Based on its area, it will be sampled as one high access sampling polygon. The area surrounding the ballpark consists of a mixture of exposed gravel and native, unmaintained vegetation. Due to its proximity to the ballpark, it has also been designated as a high access area. Based on the total area, it has been split into eight separate high access sampling polygons. Each high access polygon will be sampled per the composite sampling methodology detailed in Section 3.2 of the QAPP (Attachment A).
- Land Use Category #3 (grass areas/turf covered sports fields) – The ballpark has one continuous, irrigated lawn area that consists of the ballpark outfield. Due to its consistent land use and maintained nature, this area has been designated as a grass sampling area that will be sampled per the incremental sampling methodology (ISM) detailed in Section 3.3 of the QAPP (Attachment A).
- Land Use Category #4 (low access areas/low maintenance areas) – This land use category is not applicable at this park.
- Land Use Category #5 (garden areas) – This land use category is not applicable at this park.

4.2.2 Antimony Ball Field

- Land Use Category #1 (Playgrounds) – This land use category is not applicable at this park.
- Land Use Category #2 (high access areas/barren sports areas) – The ballpark infield area has an aggregate cover. As such, it has been designated a high access area. Based on its area, it will be sampled as one high access sampling polygon per the composite sampling methodology detailed in Section 3.2 of the QAPP (Attachment A).
- Land Use Category #3 (grass areas/turf covered sports fields) – The ballpark has one continuous, irrigated lawn area that consists of the ballpark outfield as well as a spectator area just outside the center and right field fence areas. Due to its consistent land use and maintained nature, this area has been designated as a grass sampling area that will be sampled per the ISM logic detailed in Section 3.3 of the QAPP (Attachment A).
- Land Use Category #4 (low access areas/low maintenance areas) – This land use category is not applicable at this park.
- Land Use Category #5 (garden areas) – This land use category is not applicable at this park.

4.2.3 Walkerville Park (Walkerville Drive & Ryan Road)

- Land Use Category #1 (Playgrounds) – The Walkerville Park (Walkerville Drive & Ryan Road) has one playground area. It will be sampled per the composite sampling methodology detailed in Section 3.2 of the QAPP (Attachment A).
- Land Use Category #2 (high access areas/barren sports areas) – This land use category is not applicable at this park.
- Land Use Category #3 (grass areas/turf covered sports fields) – The park has an established/maintained lawn area adjacent to Walkerville Drive. Due to its consistent land use and well-maintained nature, this area has been designated as a grass sampling area that will be sampled per the ISM logic detailed in Section 3.3 of the QAPP (Attachment A).
- Land Use Category #4 (low access areas/low maintenance areas) – This land use category is not applicable at this park.
- Land Use Category #5 (garden areas) – This land use category is not applicable at this park.

4.2.4 Walkerville Park (5th & Transit)

- Land Use Category #1 (Playgrounds) – The Walkerville Park (5th Street & Transit Street) has two playground areas. Each will be sampled separately per the composite sampling methodology detailed in Section 3.2 of the QAPP (Attachment A).

- Land Use Category #2 (high access areas/barren sports areas) – This land use category is not applicable at this park.
- Land Use Category #3 (grass areas/turf covered sports fields) – The park has an established/maintained lawn area over the entire park footprint (with the exception of the playground areas). Due to its consistent land use and well-maintained nature, this area has been designated as a grass sampling area. Because this grass area is smaller than ¼ acre, it will be sampled per the composite sampling methodology detailed in Section 3.2 of the QAPP (Attachment A).
- Land Use Category #4 (low access areas/low maintenance areas) – This land use category is not applicable at this park.
- Land Use Category #5 (garden areas) – This land use category is not applicable at this park.

4.2.5 Walkerville Park (Alley of North Main & Alley of West Daly)

- Land Use Category #1 (Playgrounds) – The Walkerville Park (Alley of North Main & Alley of West Daly) has one playground area. It will be sampled per the composite sampling methodology detailed in Section 3.2 of the QAPP (Attachment A).
- Land Use Category #2 (high access areas/barren sports areas) – This land use category is not applicable at this park.
- Land Use Category #3 (grass areas/turf covered sports fields) – The park has an established/maintained lawn area over the entire park footprint (with the exception of the playground area). Due to its consistent land use and well-maintained nature, this area has been designated as a grass sampling area that will be sampled per the ISM logic detailed in Section 3.3 of the QAPP (Attachment A).
- Land Use Category #4 (low access areas/low maintenance areas) – This land use category is not applicable at this park.
- Land Use Category #5 (garden areas) – This land use category is not applicable at this park.

4.3 Deviations

This section addresses any deviations to the Agencies-approved QAPP (Attachment A) pertaining to the 2022 BPSOU RMAP park soil sampling in or near Butte. Deviations include the following:

- No known deviations at this time.
- Any future deviations will be discussed with the Agencies' field representative, documented in the field, and addressed in the forthcoming Data Summary Reports.

5.0 LABORATORY METHODS

5.1 Soil Metals Analyses Methods

Soil metals analyses will be conducted as stated in Section 3.6 of the QAPP (Attachment A).

6.0 QUALITY CONTROL

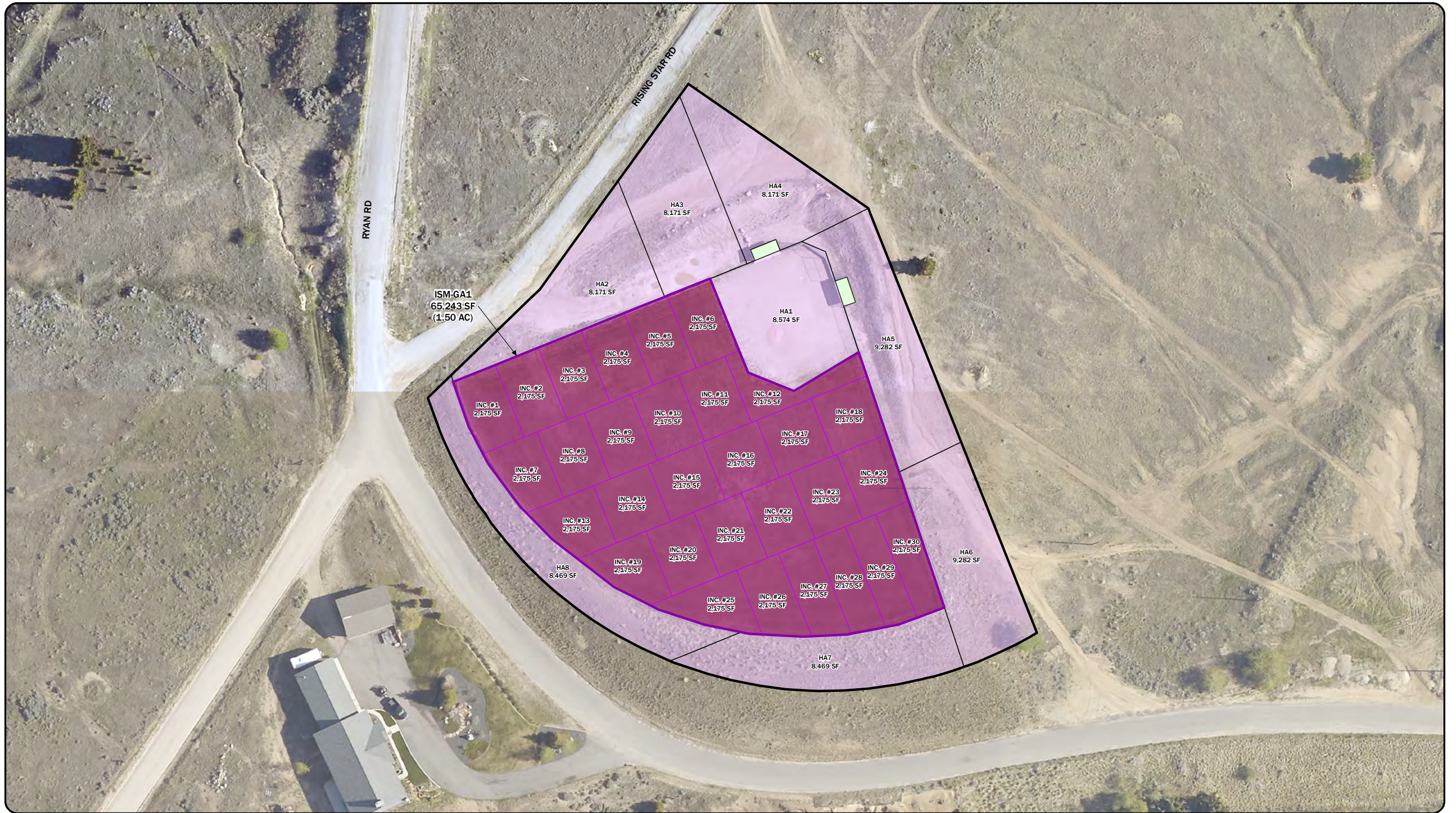
6.1 Field Quality Control Samples

Field QC will be conducted as stated in Sections 3.7 and 3.7.1 of the QAPP (Attachment A).

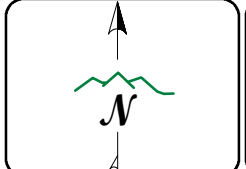
7.0 REFERENCES

Butte-Silver Bow County and Atlantic Richfield Company, 2022. Final Residential Metals Abatement Program (RMAP) Quality Assurance Project Plan (QAPP). Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. May 2022.

FIGURES



LEGEND	
■ LAND USE #1 COMPOSITE SAMPLING (PLAYGROUND AREAS)	■ LAND USE #3 ISM SAMPLING (MAINTAINED GRASS AREAS)
■ LAND USE #2 COMPOSITE SAMPLING (HIGHLY ACCESSIBLE AREAS/BARREN SPORTS FIELDS)	■ LAND USE #4 COMPOSITE SAMPLING (LOW ACCESS AREAS)
■ LAND USE #3 COMPOSITE SAMPLING (MAINTAINED GRASS AREAS)	■ LAND USE #5 COMPOSITE SAMPLING (GARDEN AREAS)
■ OPPORTUNISTIC COMPOSITE SAMPLING	□ ISM INCREMENT BOUNDARY
■ NON-SAMPLING AREAS	□ ISM SAMPLING POLYGON BOUNDARY
	□ SAMPLING POLYGON BOUNDARY
	□ SAMPLING PERIMETER BOUNDARY



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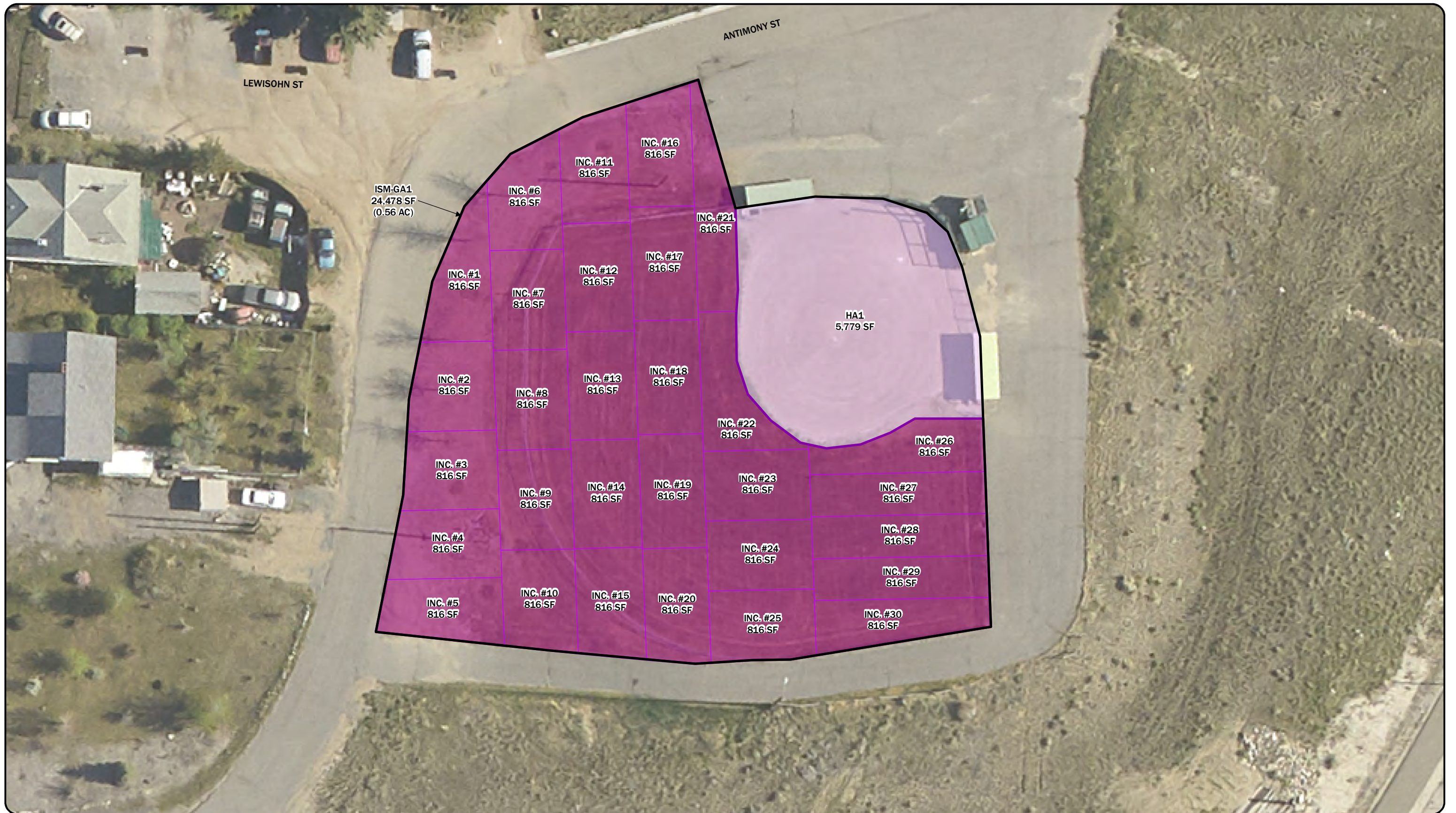
FIGURE 1



PIONEER
TECHNICAL SERVICES, INC.

**WALKERVILLE
BALL PARK
FIELD SAMPLING PLAN**

DATE: 5/12/2022



LEGEND		
■	LAND USE #1 COMPOSITE SAMPLING (PLAYGROUND AREAS)	 ISM INCREMENT BOUNDARY
■	LAND USE #2 COMPOSITE SAMPLING (HIGHLY ACCESSIBLE AREAS/BARREN SPORTS FIELDS)	 ISM SAMPLING POLYGON BOUNDARY
■	LAND USE #3 COMPOSITE SAMPLING (MAINTAINED GRASS AREAS)	 SAMPLING POLYGON BOUNDARY
■	LAND USE #4 COMPOSITE SAMPLING (LOW ACCESS AREAS)	 SAMPLING PERIMETER BOUNDARY
■	LAND USE #4 ISM SAMPLING (LOW ACCESS AREAS)	
■	LAND USE #5 COMPOSITE SAMPLING (GARDEN AREAS)	
■	OPPORTUNISTIC COMPOSITE SAMPLING	
■	NON-SAMPLING AREAS	

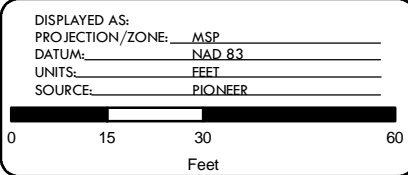
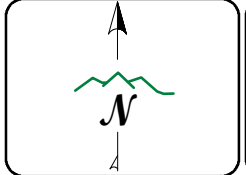


FIGURE 2

TECHNICAL SERVICES, INC.

**ANTIMONY
BALL FIELD
FIELD SAMPLING PLAN**

DATE: 5/12/2022

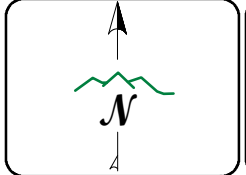


LEGEND

- LAND USE #1 COMPOSITE SAMPLING (PLAYGROUND AREAS)
- LAND USE #2 COMPOSITE SAMPLING (HIGHLY ACCESSIBLE AREAS/BARREN SPORTS FIELDS)
- LAND USE #3 COMPOSITE SAMPLING (MAINTAINED GRASS AREAS)

- LAND USE #3 ISM SAMPLING (MAINTAINED GRASS AREAS)
- LAND USE #4 COMPOSITE SAMPLING (LOW ACCESS AREAS)
- LAND USE #4 ISM SAMPLING (LOW ACCESS AREAS)
- LAND USE #5 COMPOSITE SAMPLING (GARDEN AREAS)
- OPPORTUNISTIC COMPOSITE SAMPLING
- NON-SAMPLING AREAS

- ISM INCREMENT BOUNDARY
- ISM SAMPLING POLYGON BOUNDARY
- SAMPLING POLYGON BOUNDARY
- SAMPLING PERIMETER BOUNDARY



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FIGURE 3

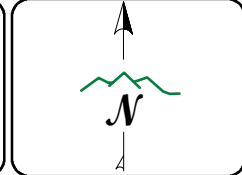
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TECHNICAL SERVICES, INC.

**WALKERVILLE PARK
(WALKERVILLE DRIVE
& RYAN ROAD)
FIELD SAMPLING
PLAN**

DATE: 5/12/2022



LEGEND			
■	LAND USE #1 COMPOSITE SAMPLING (PLAYGROUND AREAS)		ISM INCREMENT BOUNDARY
■	LAND USE #2 COMPOSITE SAMPLING (HIGHLY ACCESSIBLE AREAS/BARREN SPORTS FIELDS)		ISM SAMPLING POLYGON BOUNDARY
■	LAND USE #3 COMPOSITE SAMPLING (MAINTAINED GRASS AREAS)		SAMPLING POLYGON BOUNDARY
■	LAND USE #3 ISM SAMPLING (MAINTAINED GRASS AREAS)		SAMPLING PERIMETER BOUNDARY
■	LAND USE #4 COMPOSITE SAMPLING (LOW ACCESS AREAS)		
■	LAND USE #4 ISM SAMPLING (LOW ACCESS AREAS)		
■	LAND USE #5 COMPOSITE SAMPLING (GARDEN AREAS)		
■	OPPORTUNISTIC COMPOSITE SAMPLING		
■	NON-SAMPLING AREAS		



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FIGURE 4

**WALKERVILLE PARK
(5TH & TRANSIT)
FIELD SAMPLING PLAN**

DATE: 5/12/2022

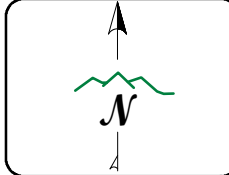


LEGEND

- LAND USE #1 COMPOSITE SAMPLING (PLAYGROUND AREAS)
- LAND USE #2 COMPOSITE SAMPLING (HIGHLY ACCESSIBLE AREAS/BARREN SPORTS FIELDS)
- LAND USE #3 COMPOSITE SAMPLING (MAINTAINED GRASS AREAS)

- LAND USE #4 COMPOSITE SAMPLING (LOW ACCESS AREAS)
- LAND USE #4 ISM SAMPLING (LOW ACCESS AREAS)
- LAND USE #5 COMPOSITE SAMPLING (GARDEN AREAS)
- OPPORTUNISTIC COMPOSITE SAMPLING
- NON-SAMPLING AREAS

- ISM INCREMENT BOUNDARY
- ISM SAMPLING POLYGON BOUNDARY
- SAMPLING POLYGON BOUNDARY
- SAMPLING PERIMETER BOUNDARY



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FIGURE 5

**WALKERVILLE PARK
 (ALLEY OF NORTH MAIN
 & ALLEY OF WEST DALY)
 FIELD SAMPLING PLAN**

DATE: 5/12/2022

TABLES

**TABLE 1: 2022 RMAP PARK SOIL SAMPLING PROPERTY LIST
(FSP Submittal #1)**

Count	Res-ID	Geocode	Name	Owner
1	P-0002	0111971110205MINE	Walkerville Ball Park	City of Walkerville
2	P-0003	01119713272020000 0111971229904MINE	Antimony Ball Field	BSB ARCO
3	P-0004	01119712206016500 01119712206100000	Walkerville Park (Walkerville Drive and Ryan Road)	BSB Mullaney Regina B
4	P-0005	01119712213010000	Walkerville Park (5th and Transit)	City of Walkerville
5	P-0006	01119712298050000 01119712298040000	Walkerville Park (Alley of North Main and Alley of West Daly)	ARCO

**TABLE 2: 2022 RMAP PARK
SOIL SAMPLING QUANTITY SUMMARY
(FSP Submittal #1)**

Figure #	Res-ID	School/Park	Owner	Total Area (SF)	Polygon ID	Type Sampling (Composite or ISM)	Polygon Areas (SF)	Non Sampling Areas (SF)	Land Use #1 Playgrounds (SF)	Land Use #2 High Access (SF)	Land Use #3 Grass Areas (SF)	Land Use #4 Low Access (SF)	Land Use #5 Gardens (SF)	Opportunistic Sample Areas (SF)	# of Subsample Locations/ Increments	# of Samples	0-2"	2-6"	6-12"	2-12" (ISM Only)	12-18"	18-24"	Notes				
1	P-0002	Walkerville Ball Park	City of Walkerville	134,226	HA1	Composite	8,574			8,574					14	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-				
					HA2	Composite	8,171			8,171								14	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-	
					HA3	Composite	8,171			8,171								14	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-	
					HA4	Composite	8,171			8,171								14	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-	
					HA5	Composite	9,282			9,282								15	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-	
					HA6	Composite	9,282			9,282								15	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-	
					HA7	Composite	8,469			8,469								14	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-	
					HA8	Composite	8,469			8,469								14	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-	
					GA1 (Replicate #1)	ISM												30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-	
					GA1 (Replicate #2)	ISM		65,243							65,243				30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-
					GA1 (Replicate #3)	ISM													30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-
					Non Sampling Areas	-		394			394								-	-	-	-	-	-	-	-	-
					2	P-0003	Antimony Ball Field	BSB ARCO	30,257	HA1	Composite	5,779			5,779					10	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-
GA1 (Replicate #1)	ISM																30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-		
GA1 (Replicate #2)	ISM		24,478											24,478				30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-	
GA1 (Replicate #3)	ISM																	30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-	
Non Sampling Areas	-		0							0								-	-	-	-	-	-	-	-	-	
3	P-0004	Walkerville Park (Walkerville Drive and Ryan Road)	BSB Mullaney Regina B	31,957	PA1	Composite	3,648			3,648					6	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-				
					GA1 (Replicate #1)	ISM											30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-		
					GA1 (Replicate #2)	ISM		21,753						21,753				30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-	
					GA1 (Replicate #3)	ISM												30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-	
					Non Sampling Areas	-		6,556		6,556								-	-	-	-	-	-	-	-	-	
4	P-0005	Walkerville Park (5th and Transit)	City of Walkerville	8,629	PA1	Composite	719			719					3	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-				
					PA2	Composite	433			433							3	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-		
					GA1	Composite	7,477			7,477								4	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-	
					Non Sampling Areas	-		0		0								-	-	-	-	-	-	-	-		
					PA1	Composite	2,173			2,173								4	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-	
5	P-0006	Walkerville Park (Alley of North Main and Alley of West Daly)	ARCO	25,366	GA1 (Replicate #1)	ISM									30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-				
					GA1 (Replicate #2)	ISM		20,281						20,281				30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-	
					GA1 (Replicate #3)	ISM												30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-	
					Non Sampling Areas	-		2,912		2,912								-	-	-	-	-	-	-	-		
					Totals (SF):		230,435			230,435	9,862	6,973	74,368	139,232	0	0	0	504	66								
Totals (AC):		5.29			5.29	0.23	0.16	1.71	3.20	0.00	0.00	0.00															

ATTACHMENT A
FINAL RMAP QAPP
(NON-RESIDENTIAL PARCELS)

The Agencies are currently reviewing the Draft Final RMAP QAPP (Non-Residential Parcels) dated 6-13-22. The final approved version of the QAPP will be inserted into this FSP once both documents have obtained Agency approval.