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Draft Final 2022 Residential Metals Abatement Program (RMAP)
Park Soil Sampling Field Sampling Plan (FSP) Submittal #3
[Covering Koprivica Park, McGruff Park, Skate Park, Belmont Park, Rock Park, and Hanna Park]

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## **Atlantic Richfield Company**

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June 14, 2022

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Draft Final RMAP Park Soil Sampling Field Sampling Plan (FSP) Submittal #3 [Covering RE: Koprivica Park, McGruff Park, Skate Park, Belmont Park, Rock Park, and Hanna Park]

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 #3, which addresses soil sampling at Koprivica Park, McGruff Park, Skate Park, Belmont Park, Rock Park, and Hanna Park under the RMAP program. The report, tables, and figures may be downloaded at the following link:

https://pioneertechnicalservices.sharepoint.com/:f:/s/submitted/ErrO0B96qSlJoPsIxZl93HoBqvv sXFErAPD3dF0D zO-zA.

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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Pat Cunneen / 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

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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 #3
[Covering Koprivica Park, McGruff Park, Skate Park,
Belmont Park, Rock Park, and Hanna Park]

**Butte-Silver Bow County** 

and

Atlantic Richfield Company

## 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 #3
[Covering Koprivica Park, McGruff Park, Skate Park,
Belmont Park, Rock Park, and Hanna Park]

#### Prepared for:

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#### Prepared by:

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#### LIST OF ATTACHMENTS

Attachment A Final 2022 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, standard operating procedures, 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:

- Koprivica Park.
- McGruff Park.
- Skate Park.
- Belmont Park.
- Rock Park.
- Hanna Park.

The attached figure set (Figure 1 through Figure 6) depicts the areas to 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 Koprivica Park

- Land Use Category #1 (playgrounds) Koprivica Park has five separate 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) The ballfield infield area has an aggregate cover. Given the cover material and the high potential use of this area, the area has been designated a high access area. Based on its area, it will be sampled as two separate high access sampling polygons 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 entire park (minus the playgrounds and ballfield infield area) is an established/maintained lawn 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 Incremental Sampling Methodology (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.

#### 4.2.2 McGruff Park

- Land Use Category #1 (playgrounds) McGruff Park has three separate 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 entire park (minus the playgrounds) is an established/maintained lawn 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.
- Opportunistic Sampling there is an area adjacent to Playground Areas 1 and 2 that appears to have an underperforming vegetative cover. Due to the sub-standard vegetation in this area it has been designated as an opportunistic sampling area and will be sampled separately per the composite sampling methodology detailed in Section 3.2 of the QAPP (Attachment A).

#### 4.2.3 Skate Park

- Land Use Category #1 (playgrounds) There is a fence surrounding the concrete skating area in the southern portion of Skate Park. Although the area between the concrete skating area and the fence is turf covered, it has been classified as a playground area due to its proximity to the skating 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) There is an aggregate covered area directly west of the concrete skating area in the southern portion of Skate Park. Due to its cover material and proximity to the skating area, it has been classified as a high access area and 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 entire park (minus the areas surrounding the skating area) is an established/maintained lawn 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.

#### 4.2.4 Belmont 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) This land use category is not applicable at this park.
- Land Use Category #3 (grass areas/turf covered sports fields) The entire park is an established/maintained lawn 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.

#### 4.2.5 Rock 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) This land use category is not applicable at this park.
- Land Use Category #3 (grass areas/turf covered sports fields) The entire park is an established/maintained lawn area. Due to its consistent land use and well-maintained nature, this area has been designated as a grass sampling area. Because the area is less than ¼ acre (10,890 square feet), 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.

#### 4.2.6 Hanna Park

- Land Use Category #1 (playgrounds) Hanna Park has two separate 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 entire park (minus the playground areas) is an established/maintained lawn area. Due to its consistent land use and well-maintained nature, this area has been designated as a grass sampling area. Because the area is less than ¼ acre (10,890 square feet), 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.

#### 4.3 Deviations

This section addresses any deviations to the Agencies-approved QAPP (Attachment A) pertaining to 2022 Butte Priority Soils Operable Unit 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 through 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

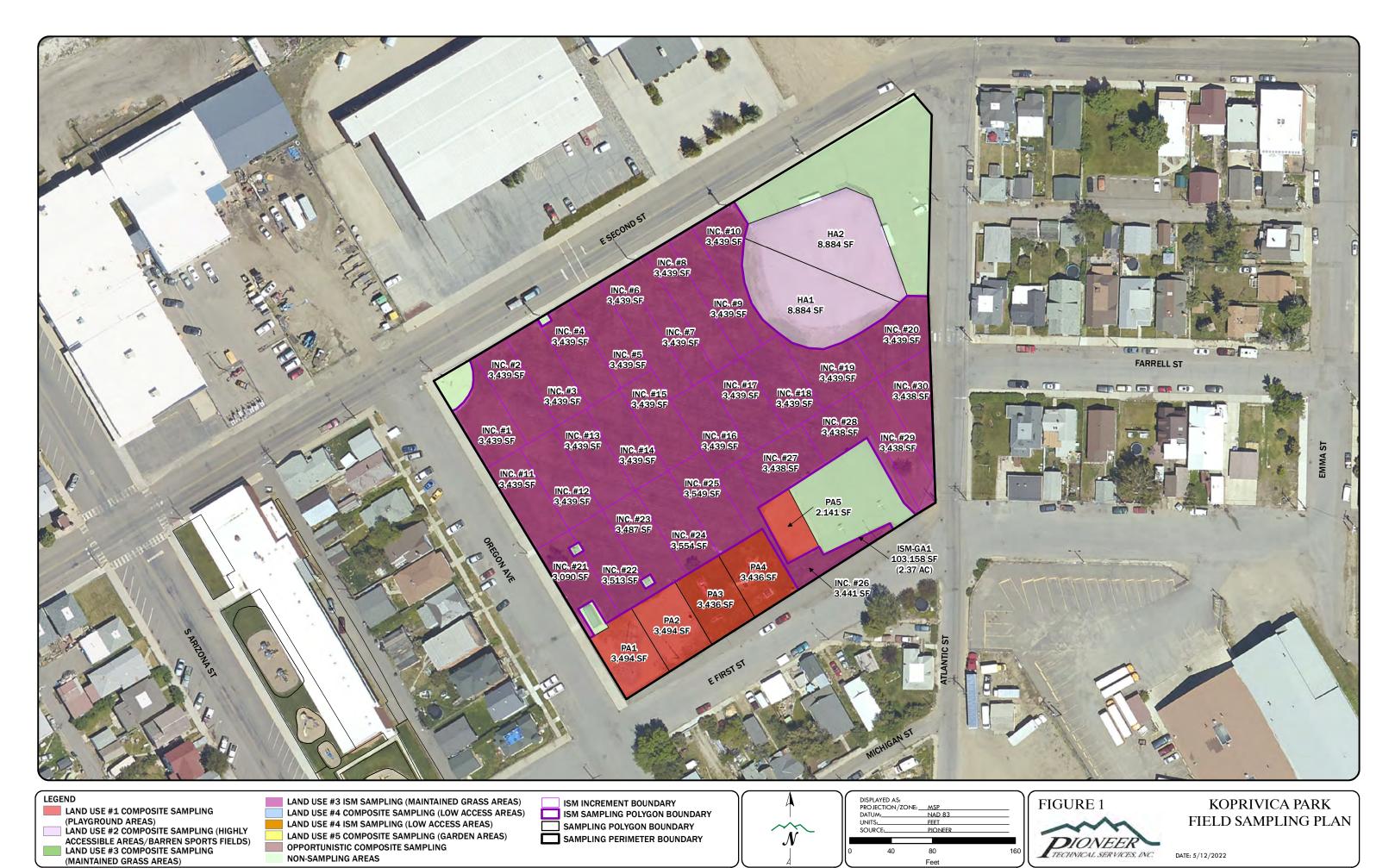
#### **6.1** Field Quality Control Samples

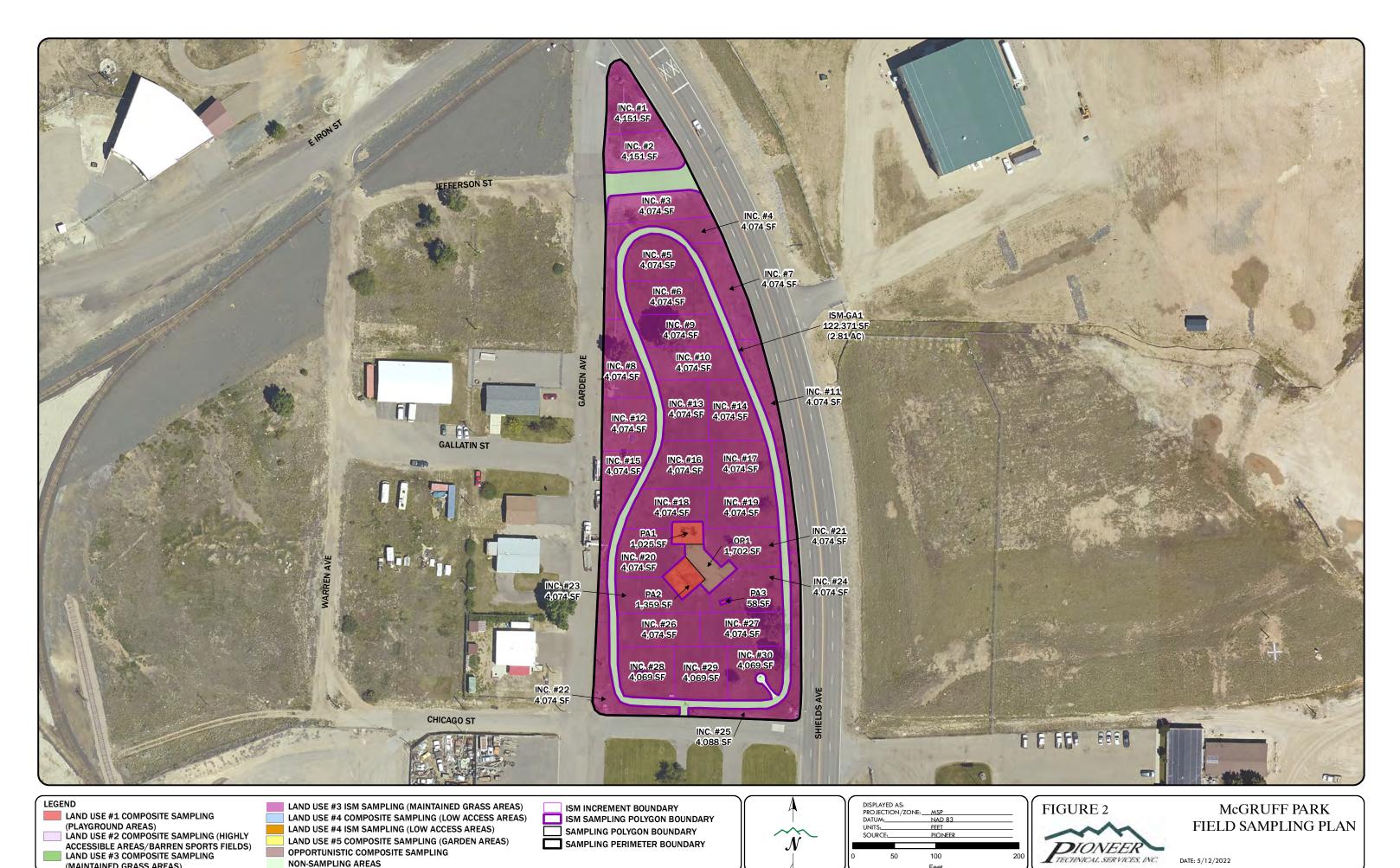
Field QC will be conducted as stated in Sections 3.7 and 3.7.1 of the QAPP (Attachment A).

#### 7.0 REFERENCES

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

#### **FIGURES**



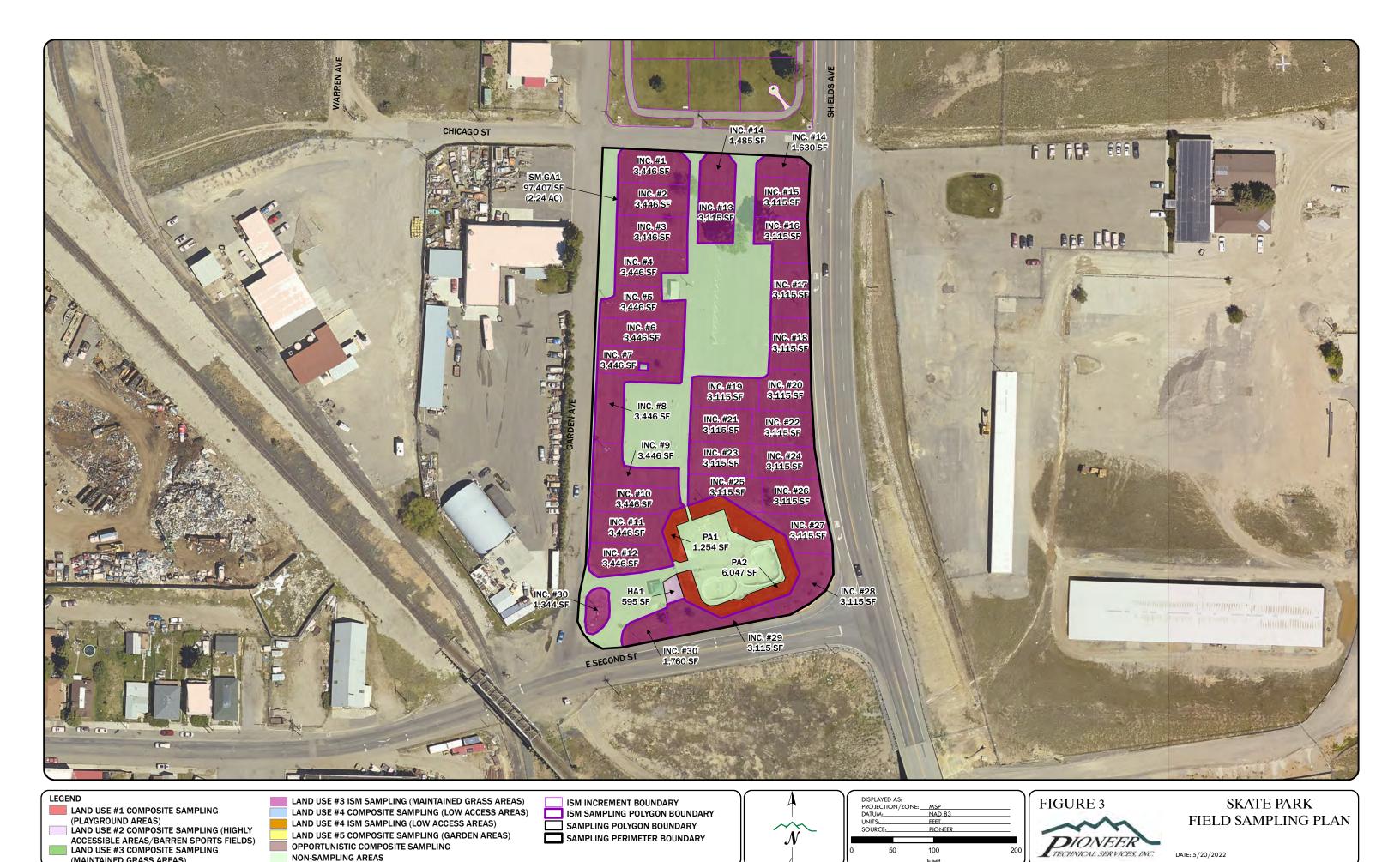


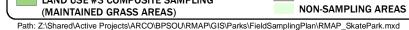
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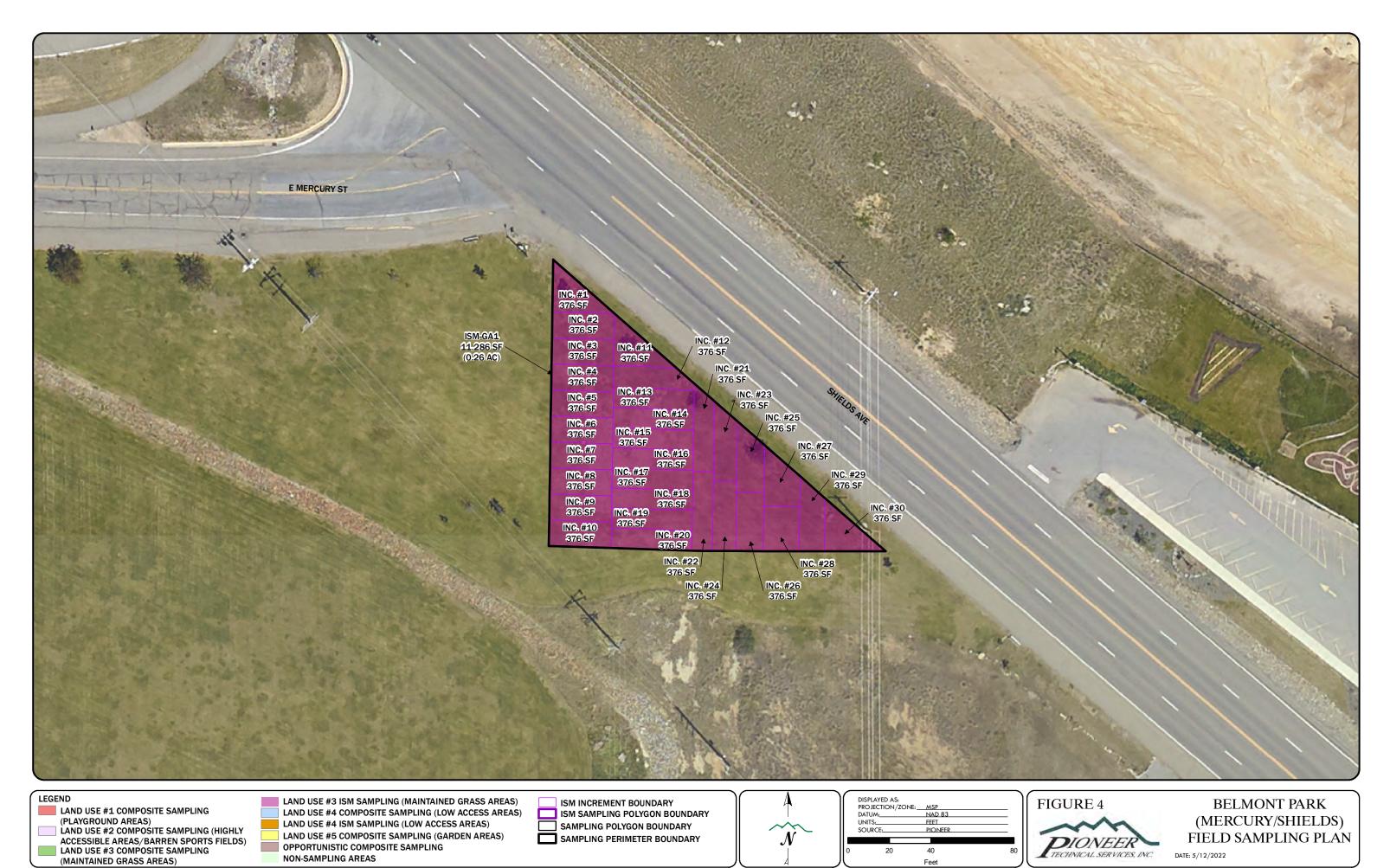
DATE: 5/12/2022



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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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ROCK PARK (N CLARK & W GRANITE) FIELD SAMPLING PLAN

DATE: 5/12/2022





(MAINTAINED GRASS AREAS)

LAND USE #1 COMPOSITE SAMPLING
(PLAYGROUND AREAS)

LAND USE #2 COMPOSITE SAMPLING (HIGHLY
ACCESSIBLE AREAS/BARREN SPORTS FIELDS) LAND USE #3 COMPOSITE SAMPLING

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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HANNA PARK (GRANITE/HENRY) FIELD SAMPLING PLAN

DATE: 5/12/2022

#### **TABLES**

## TABLE 1: 2022 RMAP PARK SOIL SAMPLING PROPERTY LIST (FSP Submittal #3)

Count	Res-ID	Geocode	Name	Owner
1	P-0013	01119818301150000	Koprivica Park	Koprivica Family Park Inc
2	P-0014	01119818407010000	McGruff Park	BSB
3	P-0015	01119818404010000	Skate park	BSB
1	P-0016	01119818205110000	Belmont Park	BSB
4	P-0010	01119818206010000	Beilliont Fark	ВЗВ
5	P-0017	01119713232090000	Rock Park	BSB
6	P-0018	01119714118340000	Hanna Park	BSB

# TABLE 2: 2022 RMAP PARK SOIL SAMPLING QUANTITY SUMMARY (FSP Submittal #3)

											(FSP Submitta	al #3)											
									Land Use #1	Land Use #2	Land Use #3	Land Use #4	Land Use #5	Opportunistic	# of Subsample								
			_	Total Area		Type Sampling		Non Sampling	Playgrounds	High Access	Grass Areas	Low Access	Gardens	Sample Areas	Locations/	# of		"		2-12"			
Figure #	Res-ID	School/Park	Owner	(SF)	Polygon ID PA1	(Composite or ISM) Composite	Polygon Areas (SF) 3,494	Areas (SF)	(SF) 3.494	(SF)	(SF)	(SF)	(SF)	(SF)	Increments	Samples	0-2"	2-6"	6-12"	(ISM Only)	12-18"		Notes
					PA1 PA2	Composite	3,494		3,494						6	3	As/Pb/Hg As/Pb/Hg	As/Pb/Hg	As/Pb/Hg As/Pb/Hg	-	-	-	*
					PA3	Composite	3,436		3,436						6	3	As/Pb/Hg	As/Pb/Hg As/Pb/Hg	As/Pb/Hg	-	-	-	-
					PA4	Composite	3,436		3,436						6	3	As/Pb/Hg As/Pb/Hg		As/Pb/Hg	-	-	-	-
					PA5	Composite	2,141		2.141						6	3	As/Pb/Hg As/Pb/Hg		As/Pb/Hg	-	-	-	
1	P-0013	Koprivica Park	Koprivica Family Park	160,462	HA1	Composite	8,884		2,111	8.884					15	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-
=			Inc.		HA2	Composite	8,884			8,884					15	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	103,158				103,158				30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-
					GA1 (Replicate #3)	ISM									30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-
					Non Sampling Areas	-	23,535	23,535							-	-	-	-	-	-	-	-	-
				143,645	PA1	Composite	1,025		1,025						3	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-
			BSB		PA2	Composite	1,359		1,359						3	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-
		McGruff Park			PA3	Composite	58		58						3	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-
2	P-0014				OP1	Composite	1,702							1,702	3	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	1-1	-
2	F-0014				GA1 (Replicate #1)	ISM					122,371				30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-
					GA1 (Replicate #2)	ISM	122,371								30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-
					GA1 (Replicate #3)	ISM									30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-
					Non Sampling Areas		17,130	17,130									-	-	-	-	-	-	-
			BSB		PA1	Composite	1,254		1,254						3	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-
					PA2	Composite	6,047		6,047	505					10	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-
					HA1	Composite	595			595					3	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-
3	P-0015	Skate Park		158,027	GA1 (Replicate #1) GA1 (Replicate #2)	ISM	07.407				97.407				30 30	2	As/Pb/Hg	-	-	As/Pb/Hg As/Pb/Hg	-	-	
					GA1 (Replicate #2) GA1 (Replicate #3)	ISM	97,407				97,407				30	2	As/Pb/Hg As/Pb/Hg	-	-	As/Pb/Hg As/Pb/Hg	-	-	-
					Non Sampling Areas	-	52,724	52,724							-	-	AS/PD/Hg	-	-	AS/PD/Hg	-	-	
					GA1 (Replicate #1)	ISM	32,724	32,724							30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	1-
					GA1 (Replicate #2)	ISM	11,286	<b>-</b>			11,286	<b>-</b>			30	2	As/Pb/Hg	-	<del>                                     </del>	As/Pb/Hg As/Pb/Hg	-	-	1-
4	P-0016	Belmont Park	BSB	11,286	GA1 (Replicate #2)	ISM	11,200	<b>-</b>			11,200	<b>-</b>			30	2	As/Pb/Hg	-	<del> </del> -	As/Pb/Hg As/Pb/Hg	-	-	1-
					Non Sampling Areas	-	0	0			<u> </u>	<u> </u>			-	-		-	-		-	_	-
					GA1	Composite	5,199	_			5,199				3	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-
5	P-0017	Rock Park	BSB	7,338	Non Sampling Areas	-	2,139	2,139			,				-	-	-	-	-	-	-	-	-
					PA1	Composite	1,698		1,698						3	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-
	D 0010	Harris Davis	BSB	0.500	PA2	Composite	63		63						3	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-
ь	P-0018	Hanna Park	BOR	9,569	GA1	Composite	4,906				4,906				3	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-
					Non Sampling Areas	-	2,902	2,902							-	-	-	-	-	-	-	-	-
			Totals (SF):	490,327			490,327	98,430	27,505	18,363	344,327	0	0	1,702	460	78							
			Totals (AC):	11.26	-		11.26	2.26	0.63	0.42	7.90	0.00	0.00	0.04			_						

# ATTACHMENT A FINAL 2022 RMAP QAPP (NON-RESIDENTIAL PARCELS)

The Agencies are currently reviewing the Draft Final 2022 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.