OPERATION AND MAINTENANCE ACTIVITY PLAN

Relocate High Rad Temporary Storage Area Fence and Gate

Prepared by: CHEYENNE RIVERA (Affiliate) Digitally signed by CHEYENNE RIVERA (Affiliate) Date: 2023.06.28 13:34:43 -04'00'

Cheyenne F. Rivera, Solid Waste Manage Facility ECA — Date

Approved by: JOEY KAY (Affiliate) Digitally signed by JOEY KAY (Affiliate) Date: 2023.07.03 06:29:58 -04'00'

Joey D. Kay, Construction Project Planner — Date

1. INTRODUCTION

This Operation and Maintenance (O&M) Plan is being written to support work activities planned for the relocation of the high radiological temporary storage area fence and gate. Existing fencing components will be removed to allow relocation of the north side fence. Existing gate on the north side will not be reinstalled. The existing footprint is shown in Figure 1. Figure 2 depicts the new footprint and the area where the new post (black dots) will be installed. Appendix C of the SRS Federal Facility Agreement identifies E-Area Low-Level Waste (LLW) Facility (including the Low Level Radioactive Waste disposal facility) as a RCRA/CERCLA Unit. E-Area Low-Level Waste Facility (ELLWF) is an active operating facility with the purpose of disposing of low level waste in the E-Area LLW Disposal Units. The disposal units include Engineered Trenches (ET), Slit Trenches (ST), Components-In-Ground (GIC) trench, Low-Activity Waste Vault (LAWV), Intermediate Level Vault (ILV), and the Naval Reactor Disposal Area (NRCDA).

Operation of the ELLWF began with placement of the first low-level waste box within the Low-Activity Waste (LAW) Vault on September 28, 1994. Disposal operations are anticipated to continue until year 2025, and a 100-year institutional control period will follow cessation of disposal operations.

Figure 3 depicts the disposal areas and future disposal areas in E-Area. The High Radiological Temporary Storage Area is located between ET4 (future disposal unit), NRCDA, and ST8. No waste has been disposed in the High Radiological Temporary Storage Area.

The ELLWF is a RCRA/CERCLA unit and the disposal areas and future disposal areas are shown in Figure 3. This is considered a minor intrusive activity.

Figure 1 – High Radiological Temporary Storage Area



Figure 2 – New Proposed Footprint for the High Radiological Temporary Storage Area

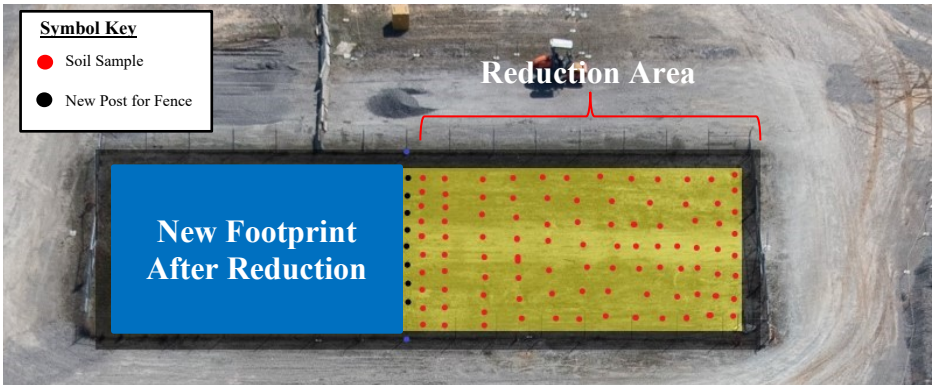
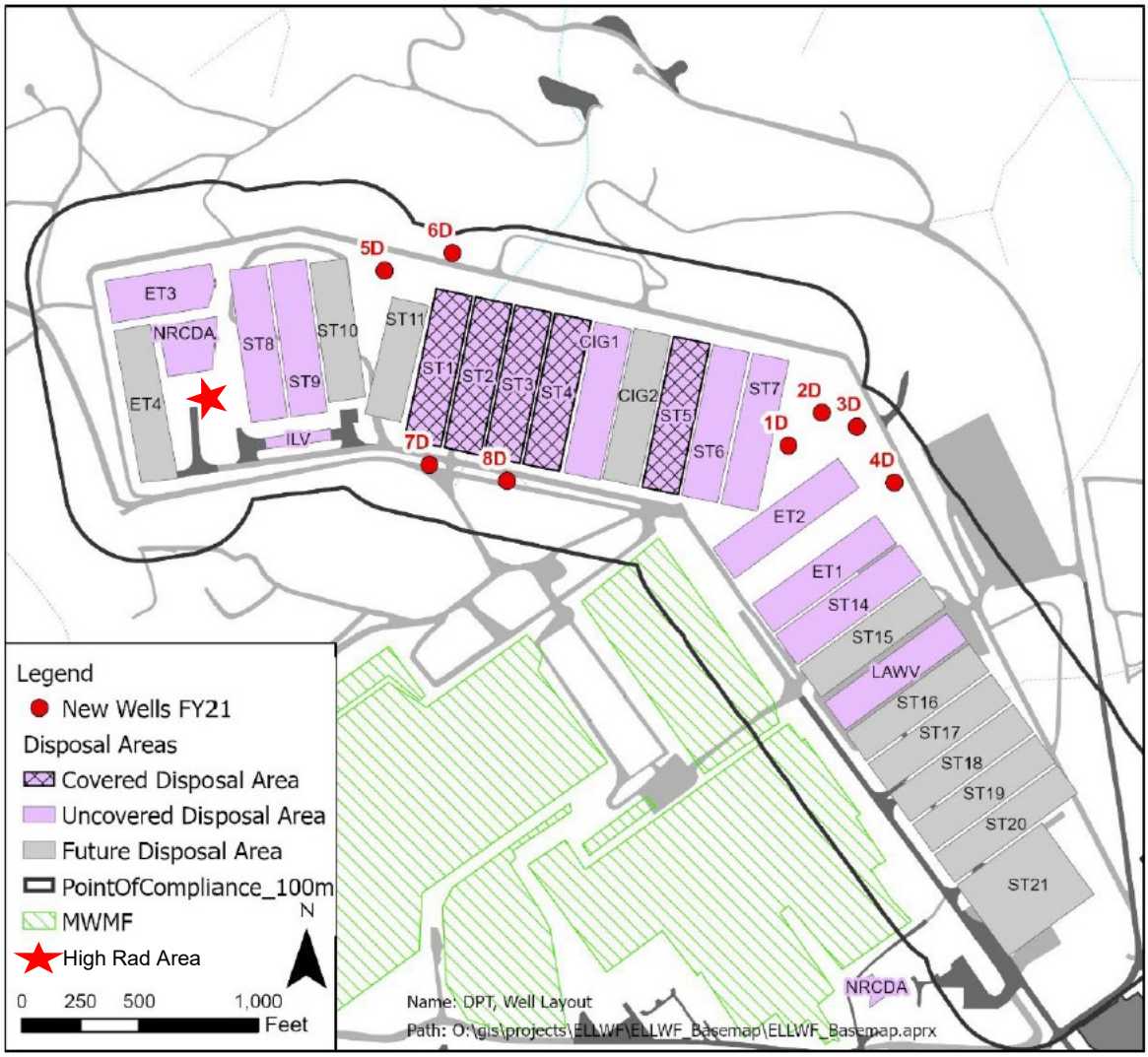


Figure 3 – Waste Units and Future Waste Units within E-Area Low Level Waste Facility



2. AREA DESCRIPTION AND CONDITIONS

The High Radiological Temporary Storage Area is in a RCRA/CERCLA unit as identified in Reference 1:

1) Waste Unit: 592, E-Area Low-Level Waste Facility, 643-26E [including Low Level Radioactive Waste Disposal Facility (non-hazardous waste disposal portion of 643-7E) and Combined Spills from 643-G as reported in WSRC-RP-97-419]
   Location: E-Area, 643-26E, The LLWDF is located north of 643-E
   Contaminants: Radionuclides

No waste has been disposed in the High Radiological Temporary Storage Area only stored. For a discussion of the waste units, see "Revision 0 for Appendix C for Fiscal Year 2022" of Reference 2. To date, there has been no remediation of waste unit 592; the status of this unit is active. Per Appendix E of Reference 2, Remedial Actions are scheduled to begin in March 2063 for waste unit 592. A site evaluation has not been performed and impacts to the Operable Unit (OU) have not been determined.

The O&M activity is not located in an area that is documented in the Land Use Control Assurance Plan (LUCAP) for the SRS (Ref. 3).

3. O & M ACTIVITY

A. O&M Activity Description

The O&M activity is downsizing the current footprint of the high radiological temporary storage area. Eight (8) posts will need to be installed as well as removing the current posts. Generation of soil is not anticipated; however, if soil is generated, then every attempt should be made to place any soil removed back into the hole. If any soil cannot be returned to its original location, then the soil should be placed as close to the original location as reasonably possible.

B. O&M Activity Sampling and Monitoring for Health and Safety

The work area will be barricaded with rope or rigid handrails to ensure that access is controlled. This is to ensure personnel safety around the work area. Worker health and safety will be directed and controlled as required in the work package.

C. Health and Safety Plan

The health and safety concerns involve worker exposure to the contaminants of interest listed in Section 2. The Work Order and/or AHA for these activities will contain instructions to ensure compliance with the Health and Safety Plan. The safety requirements and personal protective equipment described in these documents are appropriate for the potential hazards of the waste units.

D. Characterization and Sampling Plan for the Affected Area within the Unit

Waste to be generated is the removed fence. A Soil Sample Plan was developed by Solid Waste Management (Attachment 1). If soil meets or exceeds Soil Contamination Area Limits, the Radiological Protection Department Management will be contacted for further instructions,

radiological posting, additional sampling requirements, and follow-up surveys. If soil is generated in this area, then every attempt should be made to place any soil removed back into the hole. If any soil cannot be returned to its original location, then the soil should be placed as close to the original location as reasonably possible. Soil sample results are included as Attachment 2 and 3.

E. Contaminated Materials Management and/or Disposal

If soil is generated in this area, then every attempt should be made to place any soil removed back into the hole. If any soil cannot be returned to its original location, then the soil should be placed as close to the original location as reasonably possible. The removed fenced will be disposed of accordingly based on Solid Waste Engineering determination.

F. Environmental Plans and Permit Modification Requests:

The Environmental Evaluation Checklist performed for this activity is OBU-E-2023-00012. No permit modifications are required as a result of this activity. Standard erosion control measures and storm water management will be used, if required. A Site Clearance, SC-8358, has been granted for this activity and is included as Attachment 4.

4. CONTINGENCY PLAN

If at any time during the implementation of the activity, the conditions change such that the activity is no longer considered "minor" (as defined in Reference 1) or any other unanticipated event occurs, the Project Manager or ECA shall:

- Immediately notify the SRNS On-Scene Coordinator (OSC). The SRNS-OSC will notify the DOE-OSC
- Contain and stabilize the area, investigate as necessary to determine the necessary change in the activity plan, secure the area, and stop work.
- Update the SRNS-OSC as to the findings and the requested path forward. The SRNS-OSC will communicate the information to the DOE-OSC and obtain concurrence on the path forward

5. DOCUMENTATION & REPORTING

Prior to the start of the activity the O&M Plan will be transmitted to the SRNS-OSC. If additional sampling and characterization of the soil is needed or if new waste (outside of what is detailed in the Work Package 1979344) is generated from contaminated material then the Project Manager will transmit this information after the completion of this activity.

6. References

1. WSRC-RP-96-45, Savannah River Site Plan for Performing Maintenance in Federal Facility Agreement Area (O&M) Plan (U), December 15, 1996
2. WSRC-OS-94-42, Federal Facility Agreement for the Savannah River Site, Administrative Document 89-05-FF, August 16, 1993.
3. WSRC-RP-4125, Land Use Control Assurance Plan for the SRS, Revision 1.1, November 2003.

7. Attachments

1. Reducing Trans 4, Unit 1 Container Storage Area. WO# 1979344 Soil Sample Plan, April 2023.
2. Soil Sample Survey SWIN-M-20230607-11
3. Soil Sample Survey SWIN-M-20230613-4
4. Site Clearance, SC-8358.

Reducing Trans 4, Unit 1 container storage area.

WO# 1979344 Soil Sample Plan.

04/25/2023

Solid Waste Management Facility (SWMF)

Prepared By: Dwayne Coursey Digitally signed by Dwayne Coursey Date: 2023.04.26 13:06:45 -04'00' **Date**

SWMF, Work Control Planner

Approved By: JEREMY ROSIER (Affiliate) Digitally signed by JEREMY ROSIER (Affiliate) Date: 2023.04.26 13:53:20 -04'00' **Date**

SWMF, Operations Support Manager

Reviewed By: WAYNE BOBO (Affiliate) Digitally signed by WAYNE BOBO (Affiliate) Date: 2023.04.26 13:10:04 -04'00' **Date**

RP First Line Manager (FLM)

Approved By: Rhianna H. Hubbard Digitally signed by Rhianna H. Hubbard Date: 2023.04.27 07:36:12 -04'00' **Date**

RP Facility Manager or Designee

PURPOSE

The purpose of this sampling plan is to determine the radiological controls based on expected radiological hazards. The area is posted as an Underground Radiological Material Area (URMA).

SCOPE OF WORK:
Construction will be reducing the size of the Trans 4, Unit 1 container storage area in the back 40 by removing a section of the fencing and gate. Digging will be conducted in an **Underground Radioactive Material Area** (URMA). **Radiological Worker II** training is required. The area to be downsized is approximately 8,924 sq ft. 8 holes will be needed to install post for the section of fence being replaced.

- Perform the required surveys as specified in this soil sampling plan in accordance with procedure 5Q1.2-485 (2). If additional posting becomes necessary, the area is to be posted as required per procedure 5Q1.1-518 (3).

- If radioactivity in the soil meets or exceeds Soil Contamination Area Limits, contact RPD Management for further instructions, radiological posting, additional sampling requirements, and follow-up surveys.

SAFETY

- Comply with all safety precautions per applicable procedures.
- Personnel shall exercise caution when traversing the area due to uneven terrain, and trip hazards.
- Use safe techniques during use of sampling equipment.
- Ensure all safety requirements of the Assisted Hazard Analysis (AHA) are performed.

PREREQUISITES:

- A Pre-Job review of the sampling plan is required with all sampling personnel prior to the start of sampling activities.

- Prior to any excavation, an exposure dose rate reading utlizing a Bicron µRem and direct probe survey will be performed of the (surface and substance). If no elevated readings are detected, per 5Q1.2-485 excavation/sampling work can commence. If elevated readings are detected, additional radiological controls (i.e.: postings, PPE) may be required, per RPD FLM.

SAMPLING PLAN

1. Each sample location will be probed for alpha and beta-gamma emitters by RPD prior to removal of any soil, per 5Q1.2-485.

2. This geometry is to be used for surveying inside a Controlled Area where the general radiological conditions are known prior to excavation or trenching activities and assumes that continuous RP coverage will be provided during the sampling activities.

In developing the sampling plan, blueprints and engineering drawings should be used to identify process lines and potential interferences. Sufficient samples shall be obtained to fully characterize the area. At a minimum, one sample location per 8 m2 (85 ft2) shall be identified. The sampling plan, approved by RP Facility Manager (or designee), shall be documented in the work package. Sampling activities shall be documented on a Radiological Survey.

3. A total of 105 soil samples will need to be collected and analyzed.
4. Package and survey soil samples for transport to the RPD count room, samples will be analyzed for alpha and beta-gamma constituents.
5. At the completion of all excavation activities, survey all tools used to clean area limits.

   If any item/material does not meet clean area limits,
   <20 dpm α/100 cm^2, <200dpm $\beta\gamma$/100cm^2, ND dpm α, $\beta\gamma$ direct probe, post area per radiological survey results, and contact RPD FLM for path forward.

REFERENCES/ATTACHMENTS:

1. Attachment 1: Sample Locations
2. Manual 5Q1.2 Procedure 485, *Soil Survey and Sampling Techniques*
3. Manual 5Q1.1 Procedure 518, *Radiological Posting*
4. Manual 5Q1.2 Procedure 303, *Analysis of Soil Samples*
5. Manual 8Q Procedure 34, *Excavations and Trenches*

ATTACHMENT 1.

Each black dot represents a new fence post to be installed. Red dots on diagram represents sample point locations.



VSDS Standard Map RSLS

Procedure 5Q1.2-133A **RSM Track # 10025**

Survey SWIN-M-20230607-11

General Information

Title: SWM: Soil Sample Analysis for Trans 4 fence area RMA 134.

Survey Date/Time: 6/7/2023 07:30 Lead Inspector: SCOTT, RAYMOND RUSSELL

Survey Type: Job Coverage Work Order/Task #: 1979344

Counted By: ID: J0155

RWP #: 23-SWM-008

Facility: SWM

Status: Approved by: BOBO, WAYNE KENNETH JR, 6/13/2023 16:56:30 ID: L1385

Additional Inspectors

Inspector	Cmp Alt	Approve
KAYS, STEPHANIE WALKER	K8392	☑
KISER, CAMERON	K6154	☑
POKORA, KAYLA	K8391	☑
RECTOR, CHRISTOPHER ERIC	K7413	☑

Dose Rate (DR) Object Prefixes/Suffixes

Dose Rates with Prefixes:
E = Extrem
GA = GA WB
S = Skin

Dose Rates with No Prefixes:
W Body

Default Prefixes:
HS = Hot Spot

Default Suffixes:
"n" = Neutron
"b" = Beta
"c" = Corrected

Postings Legend

Controlled=Controlled Area RMA=Radioactive Material Area

Instruments Used

#	Instrument Model	Instrument Serial #
1	12-110	CMC004260
2	HandECount	CMC013983
3	HandECount	CMC013681
4	HandECount	CMC002733
5	HandECount	CMC004658
6	12-Alpha[2]	CMC003951
7	Micro Rem LE	CMC009518

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Comments:

RPD took soil samples within trans 4 for fence relocation.
A Total of (70) Samples Locations:
1 composite sample consisting of 6 inches and 12 inches per sample location. Each row had 10 sample locations
equally spaced per the sampling plan, and there were 7 rows completed.
Location #s were labeled as such: 1.1 - 1.10 through 7.1 - 7.10.

Survey results for each sample location:
40 urem/hr @ GA(3ft from surface.)
ND dpm/100cm2(T) Alpha and ND dpm/100cm2(T) Beta-gamma.

(70) Sample bags/Soil Samples were surveyed with the following results:
ND mrem/hr @ E/S/WB
ND dpm/100cm2(T) Alpha and ND dpm/100cm2(T) Beta-Gamma.
ND dpm/wipe Alpha and Beta-Gamma.
<20 dpm/100cm2 Alpha and <200 dpm/100cm2 Beta-Gamma.

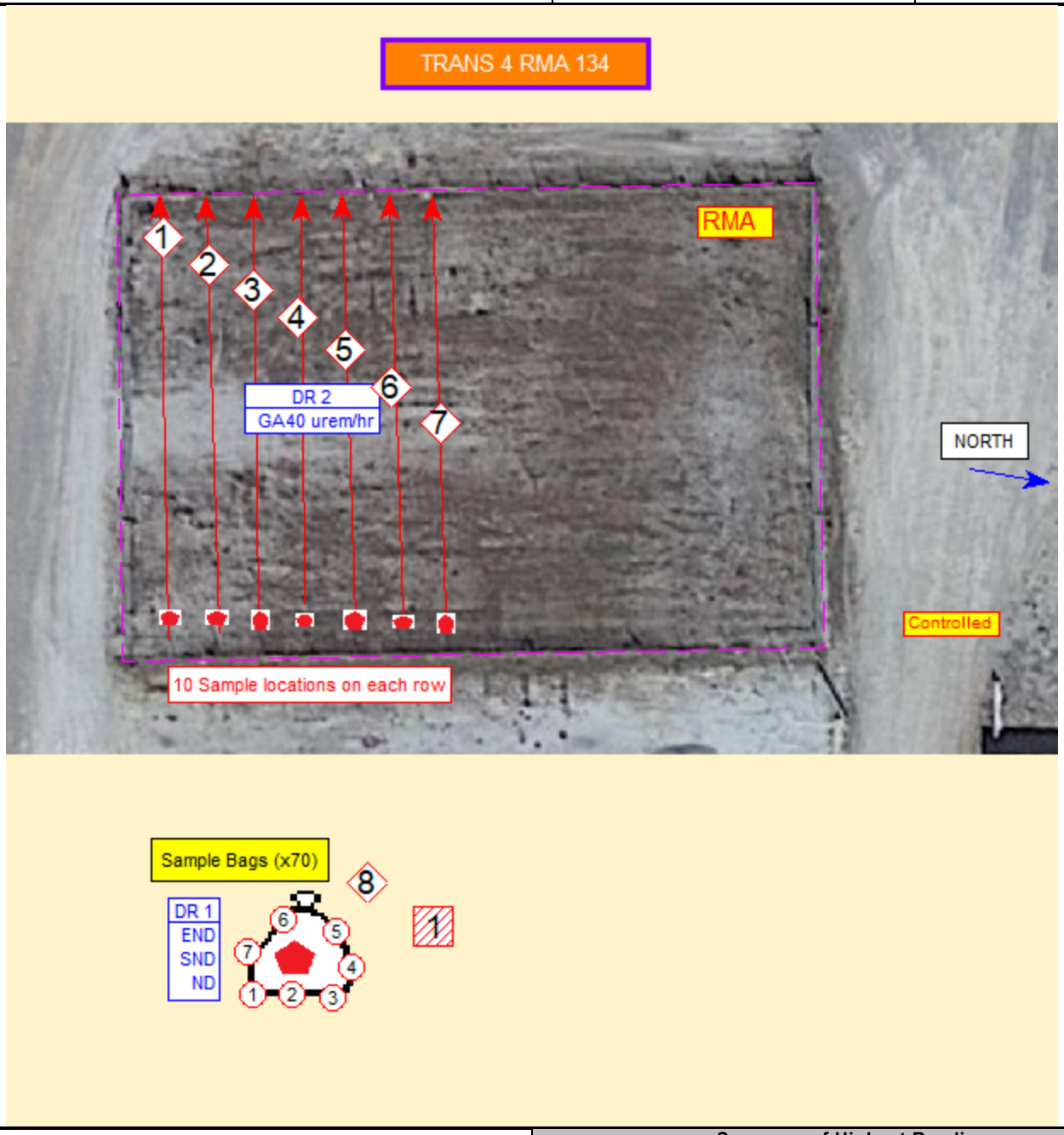
*All Sample Analysis results: <1000 pCi/gm Alpha and <150 pCi/gm Beta-Gamma.
**See attached OSR 4-770 Sample Analysis sheets.

The Auger Bit that was used, was cleaned and cleared after digging at each sample location.
Final survey results were as follows:
ND dpm/100cm2(F) Alpha and ND dpm/100cm2(F) Beta-Gamma.
ND dpm/wipe Alpha and Beta-Gamma.
<20 dpm/100cm2 Alpha and <200 dpm/100cm2 Beta-Gamma.

VSDS Standard Map RSLS

Procedure 5Q1.2-133A **RSM Track # 10025**

Map: 1	Blank Map-001	Survey #: SWIN-M-20230607-11	Date/Time: 6/7/2023 07:30



Comments:

Summary of Highest Readings
(All available values may not be listed)

Smears	Air Samples & Wipes
7) <20 DPM/100 cm2 α 7) <200 DPM/100 cm2 β/γ	Wipe 1) ND DPM/Wipe α Wipe 1) ND DPM/Wipe β/γ

Type: Job Coverage

Symbol Legend (for example only) RWP #: 23-SWM-008

DR 1 DOSE RATE ○ SMEAR ▨ WIPE
E15 EXTREMITY ◇ DIRECT
S10 SKIN
3 WHOLEBODY △ AIR SAMPLE

Unless otherwise noted, dose rates in mrem/hr.

Lead Inspector: SCOTT, RAYMOND RUSSELL

Status: Approved by: BOBO, WAYNE KENNETH JR, 6/13/2023 16:56:30

Location Code: COMMON

Bldg/Area Name: MISC DIAGRAMS

Location Description: Blank Map-001

VSDS Standard Map RSLS

Procedure 5Q1.2-133A **RSM Track # 10025**

Data Point Details

Survey #: SWIN-M-20230607-11

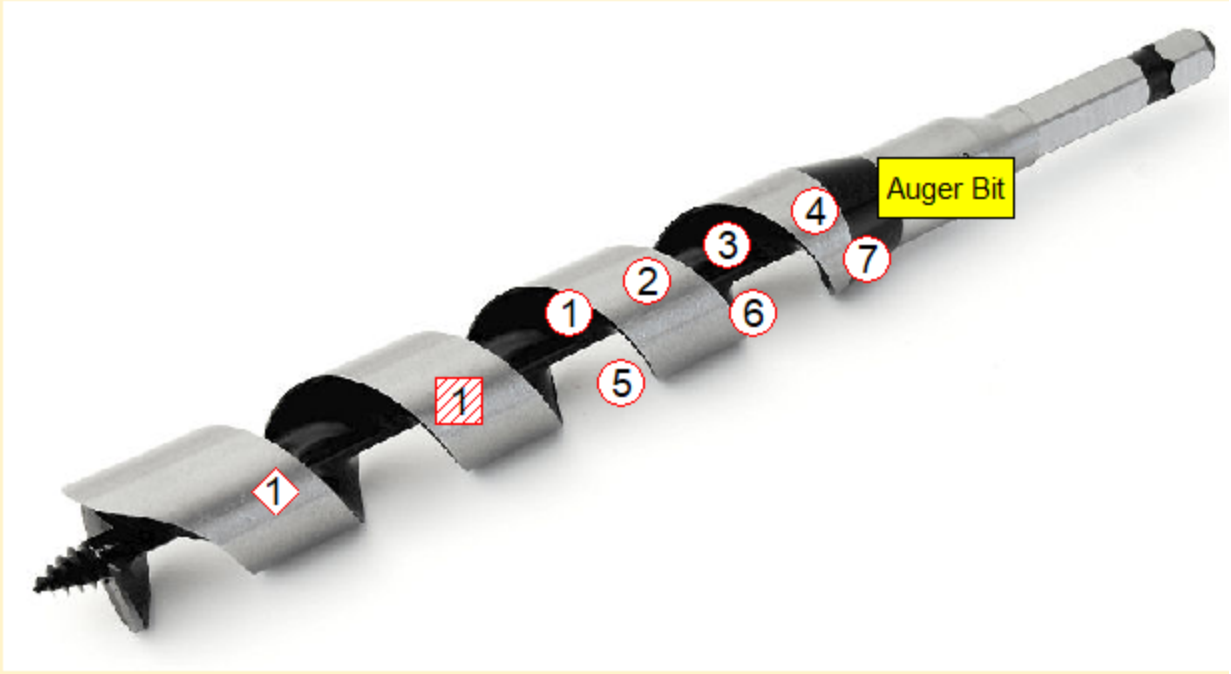
Map: 1 - COMMON\MISC DIAGRAMS\Blank Map-001

#	Type	Inst.	Value	Units	Position	Notes
1	DR γ	N/A	E ND	mrem/hr		
		N/A	S ND	mrem/hr		
		N/A	ND	mrem/hr		
2	DR γ	N/A	GA 40	urem/hr	3ft from the ground	Natural Background
1	Smear	N/A	α <20	DPM/100 cm2	Exterior	10 smears, 1 taken on each bag
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
2	Smear	N/A	α <20	DPM/100 cm2	Exterior	10 smears, 1 taken on each bag
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
3	Smear	N/A	α <20	DPM/100 cm2	Exterior	10 smears, 1 taken on each bag
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
4	Smear	N/A	α <20	DPM/100 cm2	Exterior	10 smears, 1 taken on each bag
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
5	Smear	N/A	α <20	DPM/100 cm2	Exterior	10 smears, 1 taken on each bag
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
6	Smear	N/A	α <20	DPM/100 cm2	Exterior	10 smears, 1 taken on each bag
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
7	Smear	N/A	α <20	DPM/100 cm2	Exterior	10 smears, 1 taken on each bag
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
1	Wipe	N/A	α ND	DPM/Wipe	Exterior	Each bag
		N/A	β/γ ND	DPM/Wipe		
1	Direct	N/A	α ND	DPM/100 cm2 (T)	Each sample location in row 1	1.1 - 1.10
		N/A	β/γ ND	DPM/100 cm2 (T)		
2	Direct	N/A	α ND	DPM/100 cm2 (T)	Each sample location in row 2	2.1 - 2.10
		N/A	β/γ ND	DPM/100 cm2 (T)		
3	Direct	N/A	α ND	DPM/100 cm2 (T)	Each sample location in row 3	3.1 - 3.10
		N/A	β/γ ND	DPM/100 cm2 (T)		
4	Direct	N/A	α ND	DPM/100 cm2 (T)	Each sample location in row 4	4.1 - 4.10
		N/A	β/γ ND	DPM/100 cm2 (T)		
5	Direct	N/A	α ND	DPM/100 cm2 (T)	Each sample location in row 5	5.1 - 5.10
		N/A	β/γ ND	DPM/100 cm2 (T)		
6	Direct	N/A	α ND	DPM/100 cm2 (T)	Each sample location in row 6	6.1 - 6.10
		N/A	β/γ ND	DPM/100 cm2 (T)		
7	Direct	N/A	α ND	DPM/100 cm2 (T)	Each sample location in row 7	7.1 - 7.10
		N/A	β/γ ND	DPM/100 cm2 (T)		
8	Direct	N/A	α ND	DPM/100 cm2 (T)	Exterior of bag and Open sample bag	Each Bag
		N/A	β/γ ND	DPM/100 cm2 (T)		
	Text		Sample Bags (x70)			
	Text		NORTH			
	Text		TRANS 4 RMA 134			
	Text		10 Sample locations on each row			
	Posting		Controlled			
	Posting		RMA			

VSDS Standard Map RSLS

Procedure 5Q1.2-133A **RSM Track # 10025**

Map: 2	Blank Map-001	Survey #: SWIN-M-20230607-11	Date/Time: 6/7/2023 07:30



Comments:

Summary of Highest Readings
(All available values may not be listed)

Smears	Air Samples & Wipes
7) <20 DPM/100 cm2 α 7) <200 DPM/100 cm2 β/γ	Wipe 1) ND DPM/Wipe α Wipe 1) ND DPM/Wipe β/γ

Type: Job Coverage

Symbol Legend (for example only) RWP #: 23-SWM-008

DR 1 DOSE RATE, SMEAR, WIPE
E15 EXTREMITY, DIRECT
S10 SKIN
3 WHOLEBODY, AIR SAMPLE

Unless otherwise noted, dose rates in mrem/hr.

Lead Inspector: SCOTT, RAYMOND RUSSELL

Status: Approved by: BOBO, WAYNE KENNETH JR, 6/13/2023 16:56:30

Location Code: COMMON

Bldg/Area Name: MISC DIAGRAMS

Location Description: Blank Map-001

VSDS Standard Map RSLS

Procedure 5Q1.2-133A **RSM Track # 10025**

Data Point Details

Survey #: SWIN-M-20230607-11

Map: 2 - COMMON\MISC DIAGRAMS\Blank Map-001

#	Type	Inst.	Value	Units	Position	Notes
1	Smear	N/A	α <20	DPM/100 cm2	Auger bit	Represents 10 smears
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
2	Smear	N/A	α <20	DPM/100 cm2	Auger bit	Represents 10 smears
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
3	Smear	N/A	α <20	DPM/100 cm2	Auger bit	Represents 10 smears
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
4	Smear	N/A	α <20	DPM/100 cm2	Auger bit	Represents 10 smears
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
5	Smear	N/A	α <20	DPM/100 cm2	Auger bit	Represents 10 smears
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
6	Smear	N/A	α <20	DPM/100 cm2	Auger bit	Represents 10 smears
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
7	Smear	N/A	α <20	DPM/100 cm2	Auger bit	Represents 10 smears
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
1	Wipe	N/A	α ND	DPM/Wipe		
		N/A	β/γ ND	DPM/Wipe		
1	Direct	N/A	α ND	DPM/100 cm2 (F)	Auger head	
		N/A	β/γ ND	DPM/100 cm2 (F)		
	Text		Auger Bit			

VSDS Standard Map RSLS

Procedure 5Q1.2-133A **RSM Track # 10025**

Attachments

Order	Filename	Description	Pages
1	All Soil Samples.pdf	Trans 4 RMA OSR 4-770 (x30)	30
2	139-178 Soil Sample Amyuni Conv.pdf	OSR 4-770 Sample #23SW139-178	40

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-109	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC002733 B CMC002733

Calibration Due Date(s)
A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] x CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 101.87 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.8 dpm x 26.12 = 99.26 dpm/gm + 2.22 = **44.71** pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 75.53 dpm (less than 1OOdpm/gm)

Sample Beta Activity 118.7 dpm x 1.82 = 177.10 dpm/gm + 2.22 = 97.31 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector	k7413 Digitally signedbyk7413 Date: 2023.06.0715:53:31-04'00'	06/07/2023	1:20 PM
Reviewed By (Print)	Signature		Date

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-110	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)	Calibration Due Date(s)
A CMC004658 B CMC004658	A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] x CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 7.3 dpm x 26.12 = 190.68 dpm/gm + 2.22 = 85.89 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 1OOdpm/gm)

Sample Beta Activity 156 dpm x 1.82 = 283.92 dpm/gm + 2.22 = 127.89 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:20 PM
Reviewed By (Print) N/A	Signature		Date

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-111	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013983 B CMC013983	Calibration Due Date(s) A 03/16/2024 B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] x CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 104.48 dpm (less than 250dpm/gm)

Sample Alpha Activity 7.8 dpm x 26.12 = 203.74 dpm/gm + 2.22 = 91.77 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.25 dpm (less than 1OOdpm/gm)

Sample Beta Activity 120 dpm x 1.82 = 218.4 dpm/gm + 2.22 = 98.38 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:30 PM
Reviewed By (Print)	**Signature**	**Date**	
N/A		N/A	

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-112	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s): A CMC013681 B CMC013681
Calibration Due Date(s): A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 5.1 dpm x 26.12 = 133.21 dpm/gm ÷ 2.22 = 60.00 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 72.62 dpm (less than 1OOdpm/gm)

Sample Beta Activity 158 dpm x 1.82 = 287.56 dpm/gm ÷ 2.22 = 129.53 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:30 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-113	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC002733 B CMC002733	Calibration Due Date(s) A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 101.87 dpm (less than 250dpm/gm)

Sample Alpha Activity 5.3 dpm x 26.12 = 138.44 dpm/gm + 2.22 = 62.36 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 75.53 dpm (less than 1OOdpm/gm)

Sample Beta Activity 159 dpm x 1.82 = 289.38 dpm/gm + 2.22 = 130.35 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:20 PM
Reviewed By (Print)	Signature		Date

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-114	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC004658 B CMC004658	Calibration Due Date(s) A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 6.3 dpm x 26.12 = 164.56 dpm/gm + 2.22 = 74.12 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 1OOdpm/gm)

Sample Beta Activity 181.7 dpm x 1.82 = 330.69 dpm/gm + 2.22 = 148.96 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:20 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-115	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013983 B CMC013983	Calibration Due Date(s) A 03/16/2024 B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 104.48 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.9 dpm x 26.12 = 101.87 dpm/gm + 2.22 = 45.89 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.25 dpm (less than 1OOdpm/gm)

Sample Beta Activity 127.9 dpm x 1.82 = 232.41 dpm/gm + 2.22 = 104.85 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:30 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-116	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013681 B CMC013681	Calibration Due Date(s) A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 6 dpm x 26.12 = 156.72 dpm/gm + 2.22 = 70.60 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 72.62 dpm (less than 1OOdpm/gm)

Sample Beta Activity 180.2 dpm x 1.82 = 327.96 dpm/gm + 2.22 = 147.73 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:30 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-117	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC002733 B CMC002733	Calibration Due Date(s) A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 101.87 dpm (less than 250dpm/gm)

Sample Alpha Activity 2.5 dpm x 26.12 = 65.3 dpm/gm + 2.22 = 29.41 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 75.53 dpm (less than 1OOdpm/gm)

Sample Beta Activity 141.3 dpm x 1.82 = 257.17 dpm/gm + 2.22 = 115.84 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:20 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-118	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC004658 B CMC004658	Calibration Due Date(s) A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity **4.1** dpm x 26.12 = 107.09 dpm/gm + 2.22 = **48.24** pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 1OOdpm/gm)

Sample Beta Activity 181.9 dpm x 1.82 = 331.06 dpm/gm + 2.22 = 149.13 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:20 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-119	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013983 B CMC013983	Calibration Due Date(s) A 03/16/2024 B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 104.48 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.6 dpm x 26.12 = 94.03 dpm/gm + 2.22 = 42.36 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.25 dpm (less than 1OOdpm/gm)

Sample Beta Activity 114.3 dpm x 1.82 = 208.03 dpm/gm + 2.22 = 93.71 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:30 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-120	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)	Calibration Due Date(s)
A CMC013681 B CMC013681	A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.8 dpm x 26.12 = 99.26 dpm/gm + 2.22 = 44.71 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 72.62 dpm (less than 1OOdpm/gm)

Sample Beta Activity 180.2 dpm x 1.82 = 328.51 dpm/gm + 2.22 = 147.98 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:30 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-121	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC002733 B CMC002733	Calibration Due Date(s) A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 101.87 dpm (less than 250dpm/gm)

Sample Alpha Activity 5.6 dpm x 26.12 = 146.27 dpm/gm + 2.22 = 65.89 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 75.53 dpm (less than 1OOdpm/gm)

Sample Beta Activity 174.8 dpm x 1.82 = 318.14 dpm/gm + 2.22 = 143.30 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:20 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-122	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC004658 B CMC004658	Calibration Due Date(s) A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 5.7 dpm x 26.12 = 148.88 dpm/gm + 2.22 = 67.07 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 1OOdpm/gm)

Sample Beta Activity 173.4 dpm x 1.82 = 315.59 dpm/gm + 2.22 = 142.16 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:20 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-123	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013983 B CMC013983	Calibration Due Date(s) A 03/16/2024 B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 104.48 dpm (less than 250dpm/gm)

Sample Alpha Activity 4.9 dpm x 26.12 = 127.99 dpm/gm + 2.22 = 57.65 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.25 dpm (less than 1OOdpm/gm)

Sample Beta Activity 179.3 dpm x 1.82 = 326.33 dpm/gm + 2.22 = 146.99 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:30 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-124	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013681 B CMC013681	Calibration Due Date(s) A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 6 dpm x 26.12 = 156.72 dpm/gm + 2.22 = 70.60 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 72.62 dpm (less than 1OOdpm/gm)

Sample Beta Activity 174.8 dpm x 1.82 = 318.14 dpm/gm + 2.22 = 143.30 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:30 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-125	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC002733 B CMC002733

Calibration Due Date(s)
A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 101.87 dpm (less than 250dpm/gm)

Sample Alpha Activity 4.7 dpm x 26.12 = 122.76 dpm/gm + 2.22 = 55.30 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 75.53 dpm (less than 1OOdpm/gm)

Sample Beta Activity 137.1 dpm x 1.82 = 249.52 dpm/gm + 2.22 = 112.40 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:20 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-126	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC004658 B CMC004658	Calibration Due Date(s) A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 5.4 dpm x 26.12 = 141.05 dpm/gm + 2.22 = 63.54 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 1OOdpm/gm)

Sample Beta Activity 163.8 dpm x 1.82 = 298.12 dpm/gm + 2.22 = 134.29 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:20 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-127	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013983 B CMC013983	Calibration Due Date(s) A 03/16/2024 B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 104.48 dpm (less than 250dpm/gm)

Sample Alpha Activity 5.9 dpm x 26.12 = 154.11 dpm/gm + 2.22 = 69.42 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.25 dpm (less than 1OOdpm/gm)

Sample Beta Activity 135 dpm x 1.82 = 245.7 dpm/gm + 2.22 = 110.68 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:30 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-128	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013681 B CMC013681	Calibration Due Date(s) A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 5.4 dpm x 26.12 = 141.05 dpm/gm + 2.22 = 63.54 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 72.62 dpm (less than 1OOdpm/gm)

Sample Beta Activity 181.4 dpm x 1.82 = 330.15 dpm/gm + 2.22 = 148.72 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:30 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-129	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC002733 B CMC002733	Calibration Due Date(s) A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 101.87 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.1 dpm x 26.12 = 80.97 dpm/gm + 2.22 = 36.47 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 75.53 dpm (less than 1OOdpm/gm)

Sample Beta Activity 136.8 dpm x 1.82 = 248.98 dpm/gm + 2.22 = 112.15 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:20 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-130	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC004658 B CMC004658	Calibration Due Date(s) A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 5.4 dpm x 26.12 = 141.05 dpm/gm + 2.22 = 63.54 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 1OOdpm/gm)

Sample Beta Activity 173.8 dpm x 1.82 = 316.32 dpm/gm + 2.22 = 142.48 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:20 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-131	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013983 B CMC013983	Calibration Due Date(s) A 03/16/2024 B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 104.48 dpm (less than 250dpm/gm)

Sample Alpha Activity **4.2** dpm x 26.12 = 109.70 dpm/gm + 2.22 = 49.42 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.25 dpm (less than 1OOdpm/gm)

Sample Beta Activity 159.2 dpm x 1.82 = 289.74 dpm/gm + 2.22 = 130.52 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:30 PM
Reviewed By (Print)	**Signature**	**Date**	
N/A		N/A	

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-132	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013681 B CMC013681	Calibration Due Date(s) A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] x CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 2.5 dpm x 26.12 = 62.3 dpm/gm + 2.22 = 29.41 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 72.62 dpm (less than 1OOdpm/gm)

Sample Beta Activity 178.6 dpm x 1.82 = 325.05 dpm/gm + 2.22 = 146.42 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:30 PM
Reviewed By (Print)	**Signature**	**Date**	
N/A		N/A	

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-133	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC002733 B CMC002733	Calibration Due Date(s) A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 101.87 dpm (less than 250dpm/gm)

Sample Alpha Activity 1.6 dpm x 26.12 = 41.79 dpm/gm + 2.22 = 18.83 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 75.53 dpm (less than 1OOdpm/gm)

Sample Beta Activity 107.5 dpm x 1.82 = 195.65 dpm/gm + 2.22 = 88.13 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:20 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-134	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC004658 B CMC004658	Calibration Due Date(s) A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 6.6 dpm x 26.12 = 172.39 dpm/gm + 2.22 = 77.65 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 1OOdpm/gm)

Sample Beta Activity 179.3 dpm x 1.82 = 326.33 dpm/gm + 2.22 = 146.99 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:20 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-135	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013983 B CMC013983	Calibration Due Date(s) A 03/16/2024 B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 104.48 dpm (less than 250dpm/gm)

Sample Alpha Activity 6.5 dpm x 26.12 = 169.78 dpm/gm + 2.22 = 76.48 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.25 dpm (less than 1OOdpm/gm)

Sample Beta Activity 156.3 dpm x 1.82 = 284.47 dpm/gm + 2.22 = 128.13 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:30 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-136	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013681 B CMC013681	Calibration Due Date(s) A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 6.4 dpm x 26.12 = 167.17 dpm/gm ÷ 2.22 = 75.30 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 72.62 dpm (less than 1OOdpm/gm)

Sample Beta Activity 146.5 dpm x 1.82 = 266.63 dpm/gm ÷ 2.22 = 120.10 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:30 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-137	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC002733 B CMC002733	Calibration Due Date(s) A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 101.87 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.4 dpm x 26.12 = 88.81 dpm/gm + 2.22 = 40.00 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 75.53 dpm (less than 1OOdpm/gm)

Sample Beta Activity 162.3 dpm x 1.82 = 295.39 dpm/gm + 2.22 = 133.06 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:20 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 501.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-138	Requestor ID L1385	Date 06/07/2023	Time 1:20 PM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC004658 B CMC004658	Calibration Due Date(s) A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA= [$MDA_{HandECount/Easy-Count}$] X CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.8 dpm x 26.12 = 99.26 dpm/gm + 2.22 = 44.71 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 1OOdpm/gm)

Sample Beta Activity 134 dpm x 1.82 = 243.88 dpm/gm + 2.22 = 109.86 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/07/2023	1:20 PM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-139	Requestor ID L1385	Date 06/08/2023	Time 10:00 AM

Portable Instrument Survey	
Portable Instrument ID CMC004260	Portable Instrument ID CMC003951

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection

sand/small gravel

Sample Analysis	
Counting System ID(s) A CMC002730 B CMC002730	Calibration Due Date(s) A 04/03/2024 B 04/03/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 88.81 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.1 dpm x 26.12 = 80.97 dpm/gm ÷ 2.22 = 36.47 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 63.7 dpm (less than 100dpm/gm)

Sample Beta Activity 130.1 dpm x 1.82 = 236.78 dpm/gm ÷ 2.22 = 106.66 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Chris Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-140	Requestor ID L1385	Date 06/08/2023	Time 10:00 AM

Portable Instrument Survey	
Portable Instrument ID CMC004260	Portable Instrument ID CMC003951

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection

sand/small gravel

Sample Analysis	
Counting System ID(s) A CMC002733 B CMC002733	Calibration Due Date(s) A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 91.42 dpm (less than 250dpm/gm)

Sample Alpha Activity 2.7 dpm x 26.12 = 70.52 dpm/gm ÷ 2.22 = 31.77 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 71.16 dpm (less than 100dpm/gm)

Sample Beta Activity 139.2 dpm x 1.82 = 253.34 dpm/gm ÷ 2.22 = 114.12 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Chris Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**	**Date**	
N/A		N/A	

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-141	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC004658 B CMC004658	Calibration Due Date(s) A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.4 dpm x 26.12 = 88.81 dpm/gm ÷ 2.22 = 40.00 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 100dpm/gm)

Sample Beta Activity 179.3 dpm x 1.82 = 326.33 dpm/gm ÷ 2.22 = 146.99 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-142	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013681 B CMC013681	Calibration Due Date(s) A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 0.6 dpm x 26.12 = 15.67 dpm/gm ÷ 2.22 = 7.06 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.98 dpm (less than 100dpm/gm)

Sample Beta Activity 152.5 dpm x 1.82 = 277.55 dpm/gm ÷ 2.22 = 125.02 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-143	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC002730 B CMC002730	Calibration Due Date(s) A 04/03/2024 B 04/03/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 88.81 dpm (less than 250dpm/gm)

Sample Alpha Activity 4.6 dpm x 26.12 = 120.15 dpm/gm ÷ 2.22 = 54.12 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 63.70 dpm (less than 100dpm/gm)

Sample Beta Activity 163.6 dpm x 1.82 = 297.75 dpm/gm ÷ 2.22 = 134.12 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-144	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC002733 B CMC002733	Calibration Due Date(s) A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 91.42 dpm (less than 250dpm/gm)

Sample Alpha Activity 5.1 dpm x 26.12 = 133.21 dpm/gm ÷ 2.22 = 60 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 71.16 dpm (less than 100dpm/gm)

Sample Beta Activity 174.7 dpm x 1.82 = 317.95 dpm/gm ÷ 2.22 = 143.22 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**	**Date**	
N/A		N/A	

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information

RP Tracking No.	Requestor ID	Date	Time
23-SW-145	L1385	06/08/2023	10:10 AM

Portable Instrument Survey

Portable Instrument ID	Portable Instrument ID
CMC003951	CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)		Calibration Due Date(s)	
A CMC004658	B CMC004658	A 12/08/2023	B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.8 dpm x 26.12 = 99.26 dpm/gm ÷ 2.22 = 44.71 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 100dpm/gm)

Sample Beta Activity 138 dpm x 1.82 = 251.16 dpm/gm ÷ 2.22 = 113.14 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**	**Date**	
N/A		N/A	

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-146	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013983 B CMC013983	Calibration Due Date(s) A 03/16/2024 B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 80.97 dpm (less than 250dpm/gm)

Sample Alpha Activity 2.9 dpm x 26.12 = 75.75 dpm/gm ÷ 2.22 = 34.12 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.43 dpm (less than 100dpm/gm)

Sample Beta Activity 129.1 dpm x 1.82 = 232.38 dpm/gm ÷ 2.22 = 104.68 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-147	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013681 B CMC013681	Calibration Due Date(s) A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 1.7 dpm x 26.12 = 44.40 dpm/gm ÷ 2.22 = 20 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.98 dpm (less than 100dpm/gm)

Sample Beta Activity 115.2 dpm x 1.82 = 209.66 dpm/gm ÷ 2.22 = 94.44 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-148	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC002730 B CMC002730	Calibration Due Date(s) A 04/03/2024 B 04/03/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 88.81 dpm (less than 250dpm/gm)

Sample Alpha Activity 1.3 dpm x 26.12 = 33.96 dpm/gm ÷ 2.22 = 15.30 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 63.70 dpm (less than 100dpm/gm)

Sample Beta Activity 126.3 dpm x 1.82 = 229.87 dpm/gm ÷ 2.22 = 103.54 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-149	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC002733 B CMC002733	Calibration Due Date(s) A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 91.42 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.5 dpm x 26.12 = 91.42 dpm/gm ÷ 2.22 = 41.18 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 71.16 dpm (less than 100dpm/gm)

Sample Beta Activity 137.4 dpm x 1.82 = 250.07 dpm/gm ÷ 2.22 = 112.64 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-150	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC004658 B CMC004658	Calibration Due Date(s) A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 5.1 dpm x 26.12 = 133.21 dpm/gm ÷ 2.22 = 60 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 100dpm/gm)

Sample Beta Activity 148.5 dpm x 1.82 = 271.74 dpm/gm ÷ 2.22 = 121.74 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**	**Date**	
N/A		N/A	

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-151	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013983 B CMC013983	Calibration Due Date(s) A 03/16/2024 B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 80.97 dpm (less than 250dpm/gm)

Sample Alpha Activity 4.9 dpm x 26.12 = 127.99 dpm/gm ÷ 2.22 = 57.65 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.43 dpm (less than 100dpm/gm)

Sample Beta Activity 159.6 dpm x 1.82 = 290.47 dpm/gm ÷ 2.22 = 130.84 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-152	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013681 B CMC013681	Calibration Due Date(s) A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 1.6 dpm x 26.12 = 41.08 dpm/gm ÷ 2.22 = 18.83 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.98 dpm (less than 100dpm/gm)

Sample Beta Activity 160.5 dpm x 1.82 = 292.11 dpm/gm ÷ 2.22 = 131.58 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**	**Date**	
N/A		N/A	

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-153	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC002730 B CMC002730	Calibration Due Date(s) A 04/03/2024 B 04/03/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 88.81 dpm (less than 250dpm/gm)

Sample Alpha Activity 6.1 dpm x 26.12 = 159.33 dpm/gm ÷ 2.22 = 71.77 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 63.70 dpm (less than 100dpm/gm)

Sample Beta Activity 171.7 dpm x 1.82 = 312.49 dpm/gm ÷ 2.22 = 140.76 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-154	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC002733 B CMC002733	Calibration Due Date(s) A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 91.42 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.2 dpm x 26.12 = 83.58 dpm/gm ÷ 2.22 = 37.65 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 71.16 dpm (less than 100dpm/gm)

Sample Beta Activity 178.2 dpm x 1.82 = 324.32 dpm/gm ÷ 2.22 = 146.09 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**	**Date**	
N/A		N/A	

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-155	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC004658 B CMC004658	Calibration Due Date(s) A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.6 dpm x 26.12 = 94.03 dpm/gm ÷ 2.22 = 42.36 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 100dpm/gm)

Sample Beta Activity 169.1 dpm x 1.82 = 307.76 dpm/gm ÷ 2.22 = 138.63 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**	**Date**	
N/A		N/A	

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information

RP Tracking No.	Requestor ID	Date	Time
23-SW-156	L1385	06/08/2023	10:10 AM

Portable Instrument Survey

Portable Instrument ID	Portable Instrument ID
CMC003951	CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)		Calibration Due Date(s)	
A CMC013983	B CMC013983	A 03/16/2024	B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 80.97 dpm (less than 250dpm/gm)

Sample Alpha Activity 2.9 dpm x 26.12 = 75.75 dpm/gm ÷ 2.22 = 34.12 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.43 dpm (less than 100dpm/gm)

Sample Beta Activity 150.4 dpm x 1.82 = 273.73 dpm/gm ÷ 2.22 = 123.30 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-157	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013681 B CMC013681	Calibration Due Date(s) A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 2.4 dpm x 26.12 = 62.69 dpm/gm ÷ 2.22 = 28.24 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.98 dpm (less than 100dpm/gm)

Sample Beta Activity 141.3 dpm x 1.82 = 257.17 dpm/gm ÷ 2.22 = 115.84 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**	**Date**	
N/A		N/A	

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information

RP Tracking No.	Requestor ID	Date	Time
23-SW-158	L1385	06/08/2023	10:10 AM

Portable Instrument Survey

Portable Instrument ID	Portable Instrument ID
CMC003951	CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)		Calibration Due Date(s)	
A CMC002730	B CMC002730	A 04/03/2024	B 04/03/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 88.81 dpm (less than 250dpm/gm)

Sample Alpha Activity 1.7 dpm x 26.12 = 44.40 dpm/gm ÷ 2.22 = 20.00 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 63.70 dpm (less than 100dpm/gm)

Sample Beta Activity 133.1 dpm x 1.82 = 242.06 dpm/gm ÷ 2.22 = 109.12 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-159	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC002733 B CMC002733

Calibration Due Date(s)
A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 91.42 dpm (less than 250dpm/gm)

Sample Alpha Activity 2.8 dpm x 26.12 = 73.14 dpm/gm ÷ 2.22 = 32.95 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 71.16 dpm (less than 100dpm/gm)

Sample Beta Activity 181.2 dpm x 1.82 = 329.78 dpm/gm ÷ 2.22 = 148.55 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**	**Date**	
N/A		N/A	

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information

RP Tracking No.	Requestor ID	Date	Time
23-SW-160	L1385	06/08/2023	10:10 AM

Portable Instrument Survey

Portable Instrument ID	Portable Instrument ID
CMC003951	CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)		Calibration Due Date(s)	
A CMC004658	B CMC004658	A 12/08/2023	B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 5.1 dpm x 26.12 = 133.21 dpm/gm ÷ 2.22 = 60 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 100dpm/gm)

Sample Beta Activity 168.3 dpm x 1.82 = 306.31 dpm/gm ÷ 2.22 = 137.98 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-161	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013983 B CMC013983	Calibration Due Date(s) A 03/16/2024 B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 80.97 dpm (less than 250dpm/gm)

Sample Alpha Activity 5.4 dpm x 26.12 = 141.05 dpm/gm ÷ 2.22 = 63.54 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.43 dpm (less than 100dpm/gm)

Sample Beta Activity 172.4 dpm x 1.82 = 313.77 dpm/gm ÷ 2.22 = 141.34 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-162	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013681 B CMC013681	Calibration Due Date(s) A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.5 dpm x 26.12 = 91.42 dpm/gm ÷ 2.22 = 41.18 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.98 dpm (less than 100dpm/gm)

Sample Beta Activity 157.9 dpm x 1.82 = 287.38 dpm/gm ÷ 2.22 = 129.45 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-163	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC002730 B CMC002730	Calibration Due Date(s) A 04/03/2024 B 04/03/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 88.81 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.2 dpm x 26.12 = 83.58 dpm/gm ÷ 2.22 = 37.65 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 63.70 dpm (less than 100dpm/gm)

Sample Beta Activity 143.3 dpm x 1.82 = 260.81 dpm/gm ÷ 2.22 = 117.48 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-164	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC002733 B CMC002733	Calibration Due Date(s) A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 91.42 dpm (less than 250dpm/gm)

Sample Alpha Activity 1.3 dpm x 26.12 = 33.97 dpm/gm ÷ 2.22 = 15.30 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 71.16 dpm (less than 100dpm/gm)

Sample Beta Activity 159.7 dpm x 1.82 = 290.65 dpm/gm ÷ 2.22 = 130.93 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-165	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC004658 B CMC004658	Calibration Due Date(s) A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 1.9 dpm x 26.12 = 22.35 dpm/gm ÷ 2.22 = 22.35 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 100dpm/gm)

Sample Beta Activity 162.2 dpm x 1.82 = 295.20 dpm/gm ÷ 2.22 = 132.97 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-166	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013983 B CMC013983	Calibration Due Date(s) A 03/16/2024 B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 80.97 dpm (less than 250dpm/gm)

Sample Alpha Activity 2.5 dpm x 26.12 = 65.3 dpm/gm ÷ 2.22 = 29.41 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.43 dpm (less than 100dpm/gm)

Sample Beta Activity 153.5 dpm x 1.82 = 279.37 dpm/gm ÷ 2.22 = 125.84 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-167	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013681 B CMC013681	Calibration Due Date(s) A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 2.7 dpm x 26.12 = 70.52 dpm/gm ÷ 2.22 = 31.77 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.98 dpm (less than 100dpm/gm)

Sample Beta Activity 147.1 dpm x 1.82 = 267.72 dpm/gm ÷ 2.22 = 120.60 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**	**Date**	
N/A		N/A	

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information

RP Tracking No.	Requestor ID	Date	Time
23-SW-168	L1385	06/08/2023	10:10 AM

Portable Instrument Survey

Portable Instrument ID	Portable Instrument ID
CMC003951	CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)		Calibration Due Date(s)	
A CMC002730	B CMC002730	A 04/03/2024	B 04/03/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 88.81 dpm (less than 250dpm/gm)

Sample Alpha Activity 4.1 dpm x 26.12 = 107.09 dpm/gm ÷ 2.22 = 48.24 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 63.70 dpm (less than 100dpm/gm)

Sample Beta Activity 129.8 dpm x 1.82 = 236.24 dpm/gm ÷ 2.22 = 106.41 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-169	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC002733 B CMC002733	Calibration Due Date(s) A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 91.42 dpm (less than 250dpm/gm)

Sample Alpha Activity 4.2 dpm x 26.12 = 109.70 dpm/gm ÷ 2.22 = 49.42 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 71.16 dpm (less than 100dpm/gm)

Sample Beta Activity 163.1 dpm x 1.82 = 296.84 dpm/gm ÷ 2.22 = 133.71 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-170	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC004658 B CMC004658	Calibration Due Date(s) A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 1.2 dpm x 26.12 = 31.34 dpm/gm ÷ 2.22 = 14.12 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 100dpm/gm)

Sample Beta Activity 174 dpm x 1.82 = 316.68 dpm/gm ÷ 2.22 = 142.65 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-171	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013983 B CMC013983	Calibration Due Date(s) A 03/16/2024 B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 80.97 dpm (less than 250dpm/gm)

Sample Alpha Activity 0.6 dpm x 26.12 = 15.67 dpm/gm ÷ 2.22 = 7.06 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.43 dpm (less than 100dpm/gm)

Sample Beta Activity 180.3 dpm x 1.82 = 328.15 dpm/gm ÷ 2.22 = 147.81 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-172	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013681 B CMC013681	Calibration Due Date(s) A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 0.9 dpm x 26.12 = 23.51 dpm/gm ÷ 2.22 = 10.59 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.98 dpm (less than 100dpm/gm)

Sample Beta Activity 169.6 dpm x 1.82 = 308.67 dpm/gm ÷ 2.22 = 139.04 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**	**Date**	
N/A		N/A	

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-173	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC002730 B CMC002730	Calibration Due Date(s) A 04/03/2024 B 04/03/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 88.81 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.7 dpm x 26.12 = 96.64 dpm/gm ÷ 2.22 = 43.53 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 63.70 dpm (less than 100dpm/gm)

Sample Beta Activity 162.4 dpm x 1.82 = 295.59 dpm/gm ÷ 2.22 = 133.14 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-174	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC002733 B CMC002733	Calibration Due Date(s) A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 91.42 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.4 dpm x 26.12 = 88.81 dpm/gm ÷ 2.22 = 40 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 71.16 dpm (less than 100dpm/gm)

Sample Beta Activity 175.9 dpm x 1.82 = 320.14 dpm/gm ÷ 2.22 = 144.21 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information

RP Tracking No.	Requestor ID	Date	Time
23-SW-175	L1385	06/08/2023	10:10 AM

Portable Instrument Survey

Portable Instrument ID	Portable Instrument ID
CMC003951	CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)		Calibration Due Date(s)	
A CMC004658	B CMC004658	A 12/08/2023	B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.0 dpm x 26.12 = 78.36 dpm/gm ÷ 2.22 = 35.30 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 100dpm/gm)

Sample Beta Activity 143.2 dpm x 1.82 = 260.62 dpm/gm ÷ 2.22 = 117.40 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**	**Date**	
N/A		N/A	

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-176	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013983 B CMC013983	Calibration Due Date(s) A 03/16/2024 B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 80.97 dpm (less than 250dpm/gm)

Sample Alpha Activity 2.9 dpm x 26.12 = 75.75 dpm/gm ÷ 2.22 = 34.12 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.43 dpm (less than 100dpm/gm)

Sample Beta Activity 131.7 dpm x 1.82 = 239.69 dpm/gm ÷ 2.22 = 107.97 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information

RP Tracking No.	Requestor ID	Date	Time
23-SW-177	L1385	06/08/2023	10:10 AM

Portable Instrument Survey

Portable Instrument ID	Portable Instrument ID
CMC003951	CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)		Calibration Due Date(s)	
A CMC013681	B CMC013681	A 05/01/2024	B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.3 dpm x 26.12 = 86.20 dpm/gm ÷ 2.22 = 38.83 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.98 dpm (less than 100dpm/gm)

Sample Beta Activity 176.5 dpm x 1.82 = 321.23 dpm/gm ÷ 2.22 = 144.70 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**	**Date**	
N/A		N/A	

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230607-11

Sample Information			
RP Tracking No. 23-SW-178	Requestor ID L1385	Date 06/08/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC002730 B CMC002730	Calibration Due Date(s) A 04/03/2024 B 04/03/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 88.81 dpm (less than 250dpm/gm)

Sample Alpha Activity 4.5 dpm x 26.12 = 117.54 dpm/gm ÷ 2.22 = 52.95 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 63.70 dpm (less than 100dpm/gm)

Sample Beta Activity 179.3 dpm x 1.82 = 326.33 dpm/gm ÷ 2.22 = 146.99 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/08/2023	10:30 AM
Reviewed By (Print)	**Signature**	**Date**	
N/A		N/A	

VSDS Standard Map RSLS

Procedure 5Q1.2-133A **RSM Track # 10025**

Survey SWIN-M-20230613-4

General Information

Title: SWM: Soil Sample Analysis for Trans 4 fenced area RMA 134.

Survey Date/Time: 6/13/2023 07:37

Lead Inspector: RECTOR, CHRISTOPHER ERIC

Survey Type: Job Coverage

Work Order/Task #: 1979344

Counted By:

ID: K7413

RWP #: 23-SWM-008

Facility: SWM

Status: Approved by: BOBO, WAYNE KENNETH JR, 6/14/2023 16:31:46 ID: L1385

Ready for Review by: RECTOR, CHRISTOPHER ERIC, 6/14/2023 06:31:04 ID: K7413

Additional Inspectors

Inspector	Cmp Alt	Approve
SCOTT, RAYMOND RUSSELL	J0155	☑

Dose Rate (DR) Object Prefixes/Suffixes

Dose Rates with Prefixes:	Dose Rates with No Prefixes:	Default Prefixes:	Default Suffixes:
E = Extrem	W Body	HS = Hot Spot	"n" = Neutron
GA = GA WB			"b" = Beta
S = Skin			"c" = Corrected

Postings Legend

Controlled=Controlled Area

RMA=Radioactive Material Area

Instruments Used

#	Instrument Model	Instrument Serial #
1	12-110	CMC004260
2	12-Alpha[2]	CMC003951
3	Micro Rem LE	CMC009518
4	HandECount	CMC002730
5	HandECount	CMC002733
6	HandECount	CMC004658
7	HandECount	CMC013983
8	HandECount	CMC013681

VSDS Standard Map RSLS

Procedure 5Q1.2-133A **RSM Track # 10025**

Comments:

RPD took soil samples within trans 4 for fenced relocation.
A Total of the remaining(35) Samples Locations:
1 composite sample consisting of 6 inches and 12 inches per sample location. Each row had 10 sample locations
equally spaced per the sampling plan, and there were 3 rows completed.
Location #s were labeled as such: 8.1 through 11.5.

Survey results for each sample location:
40 urem/hr @ GA(3ft from surface.)
ND dpm/100cm2(T) Alpha and ND dpm/100cm2(T) Beta-gamma.

(35) Sample bags/Soil Samples were surveyed with the following results:
ND mrem/hr @ E/S/WB
ND dpm/100cm2(T) Alpha and ND dpm/100cm2(T) Beta-Gamma.
ND dpm/wipe Alpha and Beta-Gamma.
<20 dpm/100cm2 Alpha and <200 dpm/100cm2 Beta-Gamma.

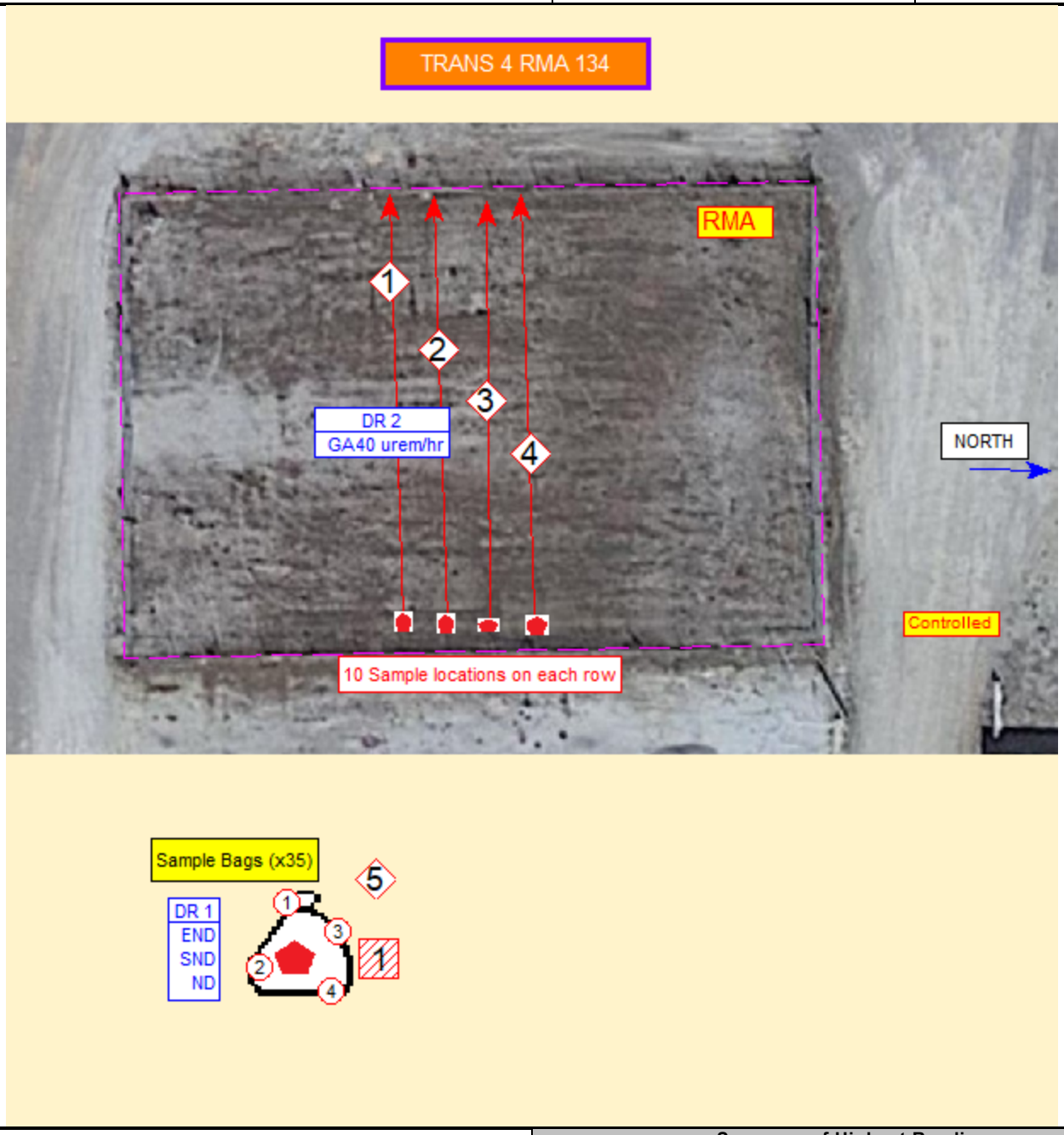
*All Sample Analysis results: <1000 pCi/gm Alpha and <150 pCi/gm Beta-Gamma.
**See attached OSR 4-770 Sample Analysis sheets.

The Auger Bit that was used, was cleaned and cleared after digging at each sample location.
Final survey results were as follows:
ND dpm/100cm2(F) Alpha and ND dpm/100cm2(F) Beta-Gamma.
ND dpm/wipe Alpha and Beta-Gamma.
<20 dpm/100cm2 Alpha and <200 dpm/100cm2 Beta-Gamma.

VSDS Standard Map RSLS

Procedure 5Q1.2-133A **RSM Track # 10025**

Map: 1	Blank Map-001	Survey #: SWIN-M-20230613-4	Date/Time: 6/13/2023 07:37



Comments:

Summary of Highest Readings
(All available values may not be listed)

Smears	Air Samples & Wipes
4) <20 DPM/100 cm2 α 4) <200 DPM/100 cm2 β/γ	Wipe 1) ND DPM/Wipe α Wipe 1) ND DPM/Wipe β/γ

Type: Job Coverage

Symbol Legend (for example only) RWP #: 23-SWM-008

DR 1 DOSE RATE, SMEAR, WIPE
E15 EXTREMITY, DIRECT
S10 SKIN
3 WHOLEBODY, AIR SAMPLE

Unless otherwise noted, dose rates in mrem/hr.

Lead Inspector: RECTOR, CHRISTOPHER ERIC

Status: Approved by: BOBO, WAYNE KENNETH JR, 6/14/2023 16:31:46

Location Code: COMMON

Bldg/Area Name: MISC DIAGRAMS

Location Description: Blank Map-001

VSDS Standard Map RSLS

Procedure 5Q1.2-133A **RSM Track # 10025**

Data Point Details

Survey #: SWIN-M-20230613-4

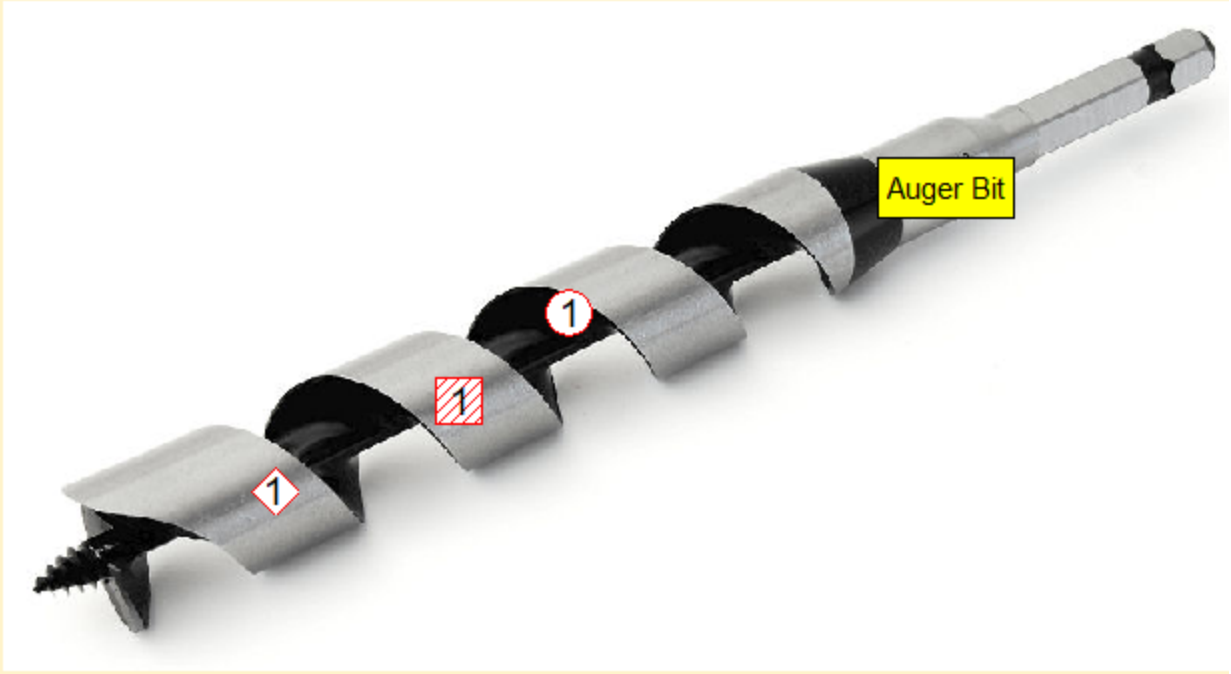
Map: 1 - COMMON\MISC DIAGRAMS\Blank Map-001

#	Type	Inst.	Value	Units	Position	Notes
1	DR γ	N/A	E ND	mrem/hr		
		N/A	S ND	mrem/hr		
		N/A	ND	mrem/hr		
2	DR γ	N/A	GA 40	urem/hr	3ft from the ground	Natural Background
1	Smear	N/A	α <20	DPM/100 cm2	Exterior	10 smears, 1 taken on each bag
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
2	Smear	N/A	α <20	DPM/100 cm2	Exterior	10 smears, 1 taken on each bag
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
3	Smear	N/A	α <20	DPM/100 cm2	Exterior	10 smears, 1 taken on each bag
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
4	Smear	N/A	α <20	DPM/100 cm2	Exterior	5 smears, 1 taken on each bag
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
1	Wipe	N/A	α ND	DPM/Wipe	Exterior	Each bag
		N/A	β/γ ND	DPM/Wipe		
1	Direct	N/A	α ND	DPM/100 cm2 (T)	Each sample location in row 8	8.1 - 8.10
		N/A	β/γ ND	DPM/100 cm2 (T)		
2	Direct	N/A	α ND	DPM/100 cm2 (T)	Each sample location in row 9	9.1 - 9.10
		N/A	β/γ ND	DPM/100 cm2 (T)		
3	Direct	N/A	α ND	DPM/100 cm2 (T)	Each sample location in row 10	10.1 - 10.10
		N/A	β/γ ND	DPM/100 cm2 (T)		
4	Direct	N/A	α ND	DPM/100 cm2 (T)	Each sample location in row 11	11.1 - 11.5
		N/A	β/γ ND	DPM/100 cm2 (T)		
5	Direct	N/A	α ND	DPM/100 cm2 (T)	Exterior of bag and Open sample bag	Each Bag
		N/A	β/γ ND	DPM/100 cm2 (T)		
	Text		Sample Bags (x35)			
	Text		NORTH			
	Text		TRANS 4 RMA 134			
	Text		10 Sample locations on each row			
	Posting		Controlled			
	Posting		RMA			

VSDS Standard Map RSLS

Procedure 5Q1.2-133A **RSM Track # 10025**

Map: 2	Blank Map-001	Survey #: SWIN-M-20230613-4	Date/Time: 6/13/2023 07:37



Comments:

Summary of Highest Readings
(All available values may not be listed)

Smears	Air Samples & Wipes
1) <20 DPM/100 cm2 α 1) <200 DPM/100 cm2 β/γ	Wipe 1) ND DPM/Wipe α Wipe 1) ND DPM/Wipe β/γ

Type: Job Coverage

Symbol Legend (for example only) RWP #: 23-SWM-008

DR 1 DOSE RATE, SMEAR, WIPE
E15 EXTREMITY, DIRECT
S10 SKIN
3 WHOLEBODY, AIR SAMPLE

Unless otherwise noted, dose rates in mrem/hr.

Lead Inspector: RECTOR, CHRISTOPHER ERIC

Status: Approved by: BOBO, WAYNE KENNETH JR, 6/14/2023 16:31:46

Location Code: COMMON

Bldg/Area Name: MISC DIAGRAMS

Location Description: Blank Map-001

VSDS Standard Map RSLS

Procedure 5Q1.2-133A **RSM Track # 10025**

Data Point Details

Survey #: SWIN-M-20230613-4

Map: 2 - COMMON\MISC DIAGRAMS\Blank Map-001

#	Type	Inst.	Value	Units	Position	Notes
1	Smear	N/A	α <20	DPM/100 cm2	Auger bit	Represents 2 smears.
		N/A	β/γ <200	DPM/100 cm2		
		N/A	Tritium N/A	DPM/100 cm2		
1	Wipe	N/A	α ND	DPM/Wipe		
		N/A	β/γ ND	DPM/Wipe		
1	Direct	N/A	α ND	DPM/100 cm2 (F)	Auger head	
		N/A	β/γ ND	DPM/100 cm2 (F)		
	Text		Auger Bit			

VSDS Standard Map RSLS

Procedure 5Q1.2-133A **RSM Track # 10025**

Attachments

Order	Filename	Description	Pages
1	All Soil Samples 179-213.pdf	Soil Samples 23-SW-179 to 23-SW-213	35

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-179	Requestor ID L1385	Date 06/13/2023	Time 10:00 AM

Portable Instrument Survey	
Portable Instrument ID CMC004260	Portable Instrument ID CMC003951

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection

Sand/small gravel

Sample Analysis

Counting System ID(s)		Calibration Due Date(s)	
A CMC002730	B CMC002730	A 04/03/2024	B 04/03/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 88.81 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.1 dpm x 26.12 = 80.97 dpm/gm ÷ 2.22 = 36.47 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 63.7 dpm (less than 100dpm/gm)

Sample Beta Activity 130.1 dpm x 1.82 = 236.78 dpm/gm ÷ 2.22 = 106.66 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Chris Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-180	Requestor ID L1385	Date 06/13/2023	Time 10:00 AM

Portable Instrument Survey	
Portable Instrument ID CMC004260	Portable Instrument ID CMC003951

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection

sand/small gravel

Sample Analysis

Counting System ID(s): A CMC002733 B CMC002733

Calibration Due Date(s): A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 91.42 dpm (less than 250dpm/gm)

Sample Alpha Activity 2.7 dpm x 26.12 = 70.52 dpm/gm ÷ 2.22 = 31.77 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 71.16 dpm (less than 100dpm/gm)

Sample Beta Activity 139.2 dpm x 1.82 = 253.34 dpm/gm ÷ 2.22 = 114.12 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Chris Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-181	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC004658 B CMC004658

Calibration Due Date(s)
A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA = [$MDA_{HandECount/Easy\text{-}Count}$] x CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.4 dpm x 26.12 = 88.81 dpm/gm ÷ 2.22 = 40.00 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 100dpm/gm)

Sample Beta Activity 179.3 dpm x 1.82 = 326.33 dpm/gm ÷ 2.22 = 146.99 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-182	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC013681 B CMC013681

Calibration Due Date(s)
A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 0.6 dpm x 26.12 = 15.67 dpm/gm ÷ 2.22 = 7.06 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.98 dpm (less than 100dpm/gm)

Sample Beta Activity 152.5 dpm x 1.82 = 277.55 dpm/gm ÷ 2.22 = 125.02 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-183	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s): A CMC002730 B CMC002730

Calibration Due Date(s): A 04/03/2024 B 04/03/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 88.81 dpm (less than 250dpm/gm)

Sample Alpha Activity 4.6 dpm x 26.12 = 120.15 dpm/gm ÷ 2.22 = 54.12 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 63.70 dpm (less than 100dpm/gm)

Sample Beta Activity 163.6 dpm x 1.82 = 297.75 dpm/gm ÷ 2.22 = 134.12 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-184	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s): A CMC002733 B CMC002733
Calibration Due Date(s): A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 91.42 dpm (less than 250dpm/gm)

Sample Alpha Activity 5.1 dpm x 26.12 = 133.21 dpm/gm ÷ 2.22 = 60 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 71.16 dpm (less than 100dpm/gm)

Sample Beta Activity 174.7 dpm x 1.82 = 317.95 dpm/gm ÷ 2.22 = 143.22 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-185	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC004658 B CMC004658

Calibration Due Date(s)
A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha
10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.8 dpm x 26.12 = 99.26 dpm/gm ÷ 2.22 = 44.71 pCi/gm

Beta
10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 100dpm/gm)

Sample Beta Activity 138 dpm x 1.82 = 251.16 dpm/gm ÷ 2.22 = 113.14 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-186	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s): A CMC013983 B CMC013983
Calibration Due Date(s): A 03/16/2024 B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha
10 minute (10 min. minimum) Count Time provides an Alpha MDA of 80.97 dpm (less than 250dpm/gm)

Sample Alpha Activity 2.9 dpm x 26.12 = 75.75 dpm/gm ÷ 2.22 = 34.12 pCi/gm

Beta
10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.43 dpm (less than 100dpm/gm)

Sample Beta Activity 129.1 dpm x 1.82 = 232.38 dpm/gm ÷ 2.22 = 104.68 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print) N/A	Signature		Date N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-187	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC013681 B CMC013681

Calibration Due Date(s)
A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 1.7 dpm x 26.12 = 44.40 dpm/gm ÷ 2.22 = 20 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.98 dpm (less than 100dpm/gm)

Sample Beta Activity 115.2 dpm x 1.82 = 209.66 dpm/gm ÷ 2.22 = 94.44 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-188	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC002730 B CMC002730

Calibration Due Date(s)
A 04/03/2024 B 04/03/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha
10 minute (10 min. minimum) Count Time provides an Alpha MDA of 88.81 dpm (less than 250dpm/gm)

Sample Alpha Activity 1.3 dpm x 26.12 = 33.96 dpm/gm ÷ 2.22 = 15.30 pCi/gm

Beta
10 minute (10 min. minimum) Count Time provides a Beta MDA of 63.70 dpm (less than 100dpm/gm)

Sample Beta Activity 126.3 dpm x 1.82 = 229.87 dpm/gm ÷ 2.22 = 103.54 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-189	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC002733 B CMC002733

Calibration Due Date(s)
A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 91.42 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.5 dpm x 26.12 = 91.42 dpm/gm ÷ 2.22 = 41.18 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 71.16 dpm (less than 100dpm/gm)

Sample Beta Activity 137.4 dpm x 1.82 = 250.07 dpm/gm ÷ 2.22 = 112.64 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-190	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC004658 B CMC004658

Calibration Due Date(s)
A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA = [$MDA_{HandECount/Easy\text{-}Count}$] x CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 5.1 dpm x 26.12 = 133.21 dpm/gm ÷ 2.22 = 60 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 100dpm/gm)

Sample Beta Activity 148.5 dpm x 1.82 = 271.74 dpm/gm ÷ 2.22 = 121.74 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-191	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha		Beta	
Exterior of Sample Container	Probe	ND	dpm	ND	dpm
	Removable	<20	dpm/100 cm^2	<200	dpm/100 cm^2
Open Sample Container	Before Drying	ND	dpm	ND	dpm
Sample Drying Dish	After Drying	ND	dpm	ND	dpm

Visual Inspection
Sand and Gravel

Sample Analysis	
Counting System ID(s) A CMC013983 B CMC013983	Calibration Due Date(s) A 03/16/2024 B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

MDA = [$MDA_{HandECount/Easy-Count}$] x CF_{Soil}

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 80.97 dpm (less than 250dpm/gm)

Sample Alpha Activity 4.9 dpm x 26.12 = 127.99 dpm/gm ÷ 2.22 = 57.65 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.43 dpm (less than 100dpm/gm)

Sample Beta Activity 159.6 dpm x 1.82 = 290.47 dpm/gm ÷ 2.22 = 130.84 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-192	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)		Calibration Due Date(s)	
A CMC013681	B CMC013681	A 05/01/2024	B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 1.6 dpm x 26.12 = 41.08 dpm/gm ÷ 2.22 = 18.83 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.98 dpm (less than 100dpm/gm)

Sample Beta Activity 160.5 dpm x 1.82 = 292.11 dpm/gm ÷ 2.22 = 131.58 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-193	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s): A CMC002730 B CMC002730
Calibration Due Date(s): A 04/03/2024 B 04/03/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha
10 minute (10 min. minimum) Count Time provides an Alpha MDA of 88.81 dpm (less than 250dpm/gm)

Sample Alpha Activity 6.1 dpm x 26.12 = 159.33 dpm/gm ÷ 2.22 = 71.77 pCi/gm

Beta
10 minute (10 min. minimum) Count Time provides a Beta MDA of 63.70 dpm (less than 100dpm/gm)

Sample Beta Activity 171.7 dpm x 1.82 = 312.49 dpm/gm ÷ 2.22 = 140.76 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print) N/A	Signature		Date N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-194	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC002733 B CMC002733

Calibration Due Date(s)
A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 91.42 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.2 dpm x 26.12 = 83.58 dpm/gm ÷ 2.22 = 37.65 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 71.16 dpm (less than 100dpm/gm)

Sample Beta Activity 178.2 dpm x 1.82 = 324.32 dpm/gm ÷ 2.22 = 146.09 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-195	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC004658 B CMC004658

Calibration Due Date(s)
A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha
10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.6 dpm x 26.12 = 94.03 dpm/gm ÷ 2.22 = 42.36 pCi/gm

Beta
10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 100dpm/gm)

Sample Beta Activity 169.1 dpm x 1.82 = 307.76 dpm/gm ÷ 2.22 = 138.63 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-196	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha		Beta	
Exterior of Sample Container	Probe	ND	dpm	ND	dpm
	Removable	<20	dpm/100 cm^2	<200	dpm/100 cm^2
Open Sample Container	Before Drying	ND	dpm	ND	dpm
Sample Drying Dish	After Drying	ND	dpm	ND	dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)		Calibration Due Date(s)	
A CMC013983	B CMC013983	A 03/16/2024	B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 80.97 dpm (less than 250dpm/gm)

Sample Alpha Activity 2.9 dpm x 26.12 = 75.75 dpm/gm ÷ 2.22 = 34.12 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.43 dpm (less than 100dpm/gm)

Sample Beta Activity 150.4 dpm x 1.82 = 273.73 dpm/gm ÷ 2.22 = 123.30 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-197	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC013681 B CMC013681

Calibration Due Date(s)
A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 2.4 dpm x 26.12 = 62.69 dpm/gm ÷ 2.22 = 28.24 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.98 dpm (less than 100dpm/gm)

Sample Beta Activity 141.3 dpm x 1.82 = 257.17 dpm/gm ÷ 2.22 = 115.84 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-198	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC002730 B CMC002730

Calibration Due Date(s)
A 04/03/2024 B 04/03/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha
10 minute (10 min. minimum) Count Time provides an Alpha MDA of 88.81 dpm (less than 250dpm/gm)

Sample Alpha Activity 1.7 dpm x 26.12 = 44.40 dpm/gm ÷ 2.22 = 20.00 pCi/gm

Beta
10 minute (10 min. minimum) Count Time provides a Beta MDA of 63.70 dpm (less than 100dpm/gm)

Sample Beta Activity 133.1 dpm x 1.82 = 242.06 dpm/gm ÷ 2.22 = 109.12 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-199	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s): A CMC002733 B CMC002733
Calibration Due Date(s): A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha
10 minute (10 min. minimum) Count Time provides an Alpha MDA of 91.42 dpm (less than 250dpm/gm)

Sample Alpha Activity 2.8 dpm x 26.12 = 73.14 dpm/gm ÷ 2.22 = 32.95 pCi/gm

Beta
10 minute (10 min. minimum) Count Time provides a Beta MDA of 71.16 dpm (less than 100dpm/gm)

Sample Beta Activity 181.2 dpm x 1.82 = 329.78 dpm/gm ÷ 2.22 = 148.55 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-200	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC004658 B CMC004658

Calibration Due Date(s)
A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha
10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 5.1 dpm x 26.12 = 133.21 dpm/gm ÷ 2.22 = 60 pCi/gm

Beta
10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 100dpm/gm)

Sample Beta Activity 168.3 dpm x 1.82 = 306.31 dpm/gm ÷ 2.22 = 137.98 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-201	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC013983 B CMC013983

Calibration Due Date(s)
A 03/16/2024 B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 80.97 dpm (less than 250dpm/gm)

Sample Alpha Activity 5.4 dpm x 26.12 = 141.05 dpm/gm ÷ 2.22 = 63.54 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.43 dpm (less than 100dpm/gm)

Sample Beta Activity 172.4 dpm x 1.82 = 313.77 dpm/gm ÷ 2.22 = 141.34 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print) N/A	Signature		Date N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-202	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC013681 B CMC013681

Calibration Due Date(s)
A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.5 dpm x 26.12 = 91.42 dpm/gm ÷ 2.22 = 41.18 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.98 dpm (less than 100dpm/gm)

Sample Beta Activity 157.9 dpm x 1.82 = 287.38 dpm/gm ÷ 2.22 = 129.45 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-203	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s): A CMC002730 B CMC002730

Calibration Due Date(s): A 04/03/2024 B 04/03/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 88.81 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.2 dpm x 26.12 = 83.58 dpm/gm ÷ 2.22 = 37.65 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 63.70 dpm (less than 100dpm/gm)

Sample Beta Activity 143.3 dpm x 1.82 = 260.81 dpm/gm ÷ 2.22 = 117.48 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-204	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC002733 B CMC002733

Calibration Due Date(s)
A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha
10 minute (10 min. minimum) Count Time provides an Alpha MDA of 91.42 dpm (less than 250dpm/gm)

Sample Alpha Activity 1.3 dpm x 26.12 = 33.97 dpm/gm ÷ 2.22 = 15.30 pCi/gm

Beta
10 minute (10 min. minimum) Count Time provides a Beta MDA of 71.16 dpm (less than 100dpm/gm)

Sample Beta Activity 159.7 dpm x 1.82 = 290.65 dpm/gm ÷ 2.22 = 130.93 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print) N/A	Signature		Date N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-205	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC004658 B CMC004658

Calibration Due Date(s)
A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha
10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 1.9 dpm x 26.12 = 22.35 dpm/gm ÷ 2.22 = 22.35 pCi/gm

Beta
10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 100dpm/gm)

Sample Beta Activity 162.2 dpm x 1.82 = 295.20 dpm/gm ÷ 2.22 = 132.97 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print) N/A	Signature		Date N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-206	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC013983 B CMC013983

Calibration Due Date(s)
A 03/16/2024 B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha
10 minute (10 min. minimum) Count Time provides an Alpha MDA of 80.97 dpm (less than 250dpm/gm)

Sample Alpha Activity 2.5 dpm x 26.12 = 65.3 dpm/gm ÷ 2.22 = 29.41 pCi/gm

Beta
10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.43 dpm (less than 100dpm/gm)

Sample Beta Activity 153.5 dpm x 1.82 = 279.37 dpm/gm ÷ 2.22 = 125.84 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-207	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC013681 B CMC013681

Calibration Due Date(s)
A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 2.7 dpm x 26.12 = 70.52 dpm/gm ÷ 2.22 = 31.77 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.98 dpm (less than 100dpm/gm)

Sample Beta Activity 147.1 dpm x 1.82 = 267.72 dpm/gm ÷ 2.22 = 120.60 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-208	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s): A CMC002730 B CMC002730
Calibration Due Date(s): A 04/03/2024 B 04/03/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha
10 minute (10 min. minimum) Count Time provides an Alpha MDA of 88.81 dpm (less than 250dpm/gm)

Sample Alpha Activity 4.1 dpm x 26.12 = 107.09 dpm/gm ÷ 2.22 = 48.24 pCi/gm

Beta
10 minute (10 min. minimum) Count Time provides a Beta MDA of 63.70 dpm (less than 100dpm/gm)

Sample Beta Activity 129.8 dpm x 1.82 = 236.24 dpm/gm ÷ 2.22 = 106.41 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-209	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s): A CMC002733 B CMC002733
Calibration Due Date(s): A 10/20/2023 B 10/20/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha
10 minute (10 min. minimum) Count Time provides an Alpha MDA of 91.42 dpm (less than 250dpm/gm)

Sample Alpha Activity 4.2 dpm x 26.12 = 109.70 dpm/gm ÷ 2.22 = 49.42 pCi/gm

Beta
10 minute (10 min. minimum) Count Time provides a Beta MDA of 71.16 dpm (less than 100dpm/gm)

Sample Beta Activity 163.1 dpm x 1.82 = 296.84 dpm/gm ÷ 2.22 = 133.71 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-210	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC004658 B CMC004658

Calibration Due Date(s)
A 12/08/2023 B 12/08/2023

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha
10 minute (10 min. minimum) Count Time provides an Alpha MDA of 62.69 dpm (less than 250dpm/gm)

Sample Alpha Activity 1.2 dpm x 26.12 = 31.34 dpm/gm ÷ 2.22 = 14.12 pCi/gm

Beta
10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.25 dpm (less than 100dpm/gm)

Sample Beta Activity 174 dpm x 1.82 = 316.68 dpm/gm ÷ 2.22 = 142.65 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-211	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC013983 B CMC013983

Calibration Due Date(s)
A 03/16/2024 B 03/16/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha
10 minute (10 min. minimum) Count Time provides an Alpha MDA of 80.97 dpm (less than 250dpm/gm)

Sample Alpha Activity 0.6 dpm x 26.12 = 15.67 dpm/gm ÷ 2.22 = 7.06 pCi/gm

Beta
10 minute (10 min. minimum) Count Time provides a Beta MDA of 68.43 dpm (less than 100dpm/gm)

Sample Beta Activity 180.3 dpm x 1.82 = 328.15 dpm/gm ÷ 2.22 = 147.81 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-212	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s)
A CMC013681 B CMC013681

Calibration Due Date(s)
A 05/01/2024 B 05/01/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors

Beta	1.82
Alpha	26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 78.36 dpm (less than 250dpm/gm)

Sample Alpha Activity 0.9 dpm x 26.12 = 23.51 dpm/gm ÷ 2.22 = 10.59 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 70.98 dpm (less than 100dpm/gm)

Sample Beta Activity 169.6 dpm x 1.82 = 308.67 dpm/gm ÷ 2.22 = 139.04 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

OSR 4-770 (Rev. 01-11-2021)
Page 1 of 1

Soil Sample Analysis Worksheet

Proc. Ref. 5Q1.2-303, Rev. 14

Survey No.
SWIN-M-20230613-4

Sample Information			
RP Tracking No. 23-SW-213	Requestor ID L1385	Date 06/13/2023	Time 10:10 AM

Portable Instrument Survey	
Portable Instrument ID CMC003951	Portable Instrument ID CMC004260

Initial Survey Data		Alpha	Beta
Exterior of Sample Container	Probe	ND dpm	ND dpm
	Removable	<20 dpm/100 cm^2	<200 dpm/100 cm^2
Open Sample Container	Before Drying	ND dpm	ND dpm
Sample Drying Dish	After Drying	ND dpm	ND dpm

Visual Inspection
Sand and Gravel

Sample Analysis

Counting System ID(s): A CMC002730 B CMC002730
Calibration Due Date(s): A 04/03/2024 B 04/03/2024

Note If counting system used provides results in gross cpm, manual calculations for determination dpm must be shown in appropriate section provided.

HandECount/Easy-Count

$$MDA = \left[MDA_{\text{HandECount/Easy-Count}} \right] \times CF_{\text{Soil}}$$

Soil Correction Factors
Beta 1.82
Alpha 26.12

Alpha

10 minute (10 min. minimum) Count Time provides an Alpha MDA of 88.81 dpm (less than 250dpm/gm)

Sample Alpha Activity 3.7 dpm x 26.12 = 96.64 dpm/gm ÷ 2.22 = 43.53 pCi/gm

Beta

10 minute (10 min. minimum) Count Time provides a Beta MDA of 63.70 dpm (less than 100dpm/gm)

Sample Beta Activity 162.4 dpm x 1.82 = 295.59 dpm/gm ÷ 2.22 = 133.14 pCi/gm

Analyzed By (Print)	Signature	Date	Time
Christopher Rector		06/13/2023	10:30 AM
Reviewed By (Print)	**Signature**		**Date**
N/A			N/A

SDC

Site Development Control

2023-0088
SC-8358
SU-N/A
4/17/2023

To: FULLER, KENNETH S. JR 704-59E, (803) 208-2461
COURSEY, DWAYNE E. 704-51E, (803) 208-0618

Subject: SITE CLEARANCE REQUEST TO REDUCE THE SIZE OF THE HI RAD FENCED AREA IN THE SOLID WASTE MANAGEMENT FACILITY (SWMF) BACK 40. LOCATED NORTH OF ASSOCIATED WASTE SHREDDER BUILDING 664-E. (U)

Permit Number: SC-8358

Tracking Number: N/A

Reference: Request from FULLER, KENNETH S. JR to Owens, Harold (Hal), dated 3/28 /2023.

Site Clearance is Granted for this project.

RESTRICTION(S)

Site Clearance Approved with the following Restrictions As Indicated.

Area Operations

1. Notify SSSD Coordinator Austin Tadlock (803) 952-8150 and CAS Inspector, Chris Byrd at (803) 952-9685 the linear feet that will be removed. This information must be captured in (FIMS) to ensure accountability for Real Property Inventory per DOE Order 430.1C., per Sharon Campbell at (803) 952-9742.

Environmental Protection

1. It is the permit holder's responsibility to ensure proper NEPA documentation has been completed for this project. Contact the Project ECA or the Site NEPA coordinator Jason Shirley at (803) 952-8228 for guidance, per Miran Tyrrell, at (803) 952-6524.
2. It is the performing entity's responsibility (i.e. SRNS, SRMC, etc) to ensure that any waste generated is characterized, managed and disposed of in accordance with applicable federal and state regulations and site procedures. Contact the Project ECA or the following SME's: (Nonhazardous) Scott Kuhn (803) 952-6234; (RCRA Hazardous) Angela Pizzino (803) 952-5798; CERCLA waste - Shelia McFalls (803) 952-6819); TSCA (PCBs, etc.) waste or used oil - Bette Ross at (803) 679-7153, per Miran Tyrrell, at (803) 952-6524.

Radiological

1. Contact Rhianna Hubbard at (803) 208-2905 for possible radiological monitoring requirements, per Kristin Brant, at (803) 952-7927.

SDC

Site Development Control

2023-0088
SC-8358
SU-N/A
4/17/2023

Site Development Control

1. Please Note: Asbuilt of all underground lines (such as isolation points, newly installed underground utility lines, cutting and capping operations) are required prior to backfilling (tape measurements are sufficient for cutting and capping operations). For SRNS Asbuilts: Contact Arthur Jones at (803) 557-5262. For SRMC Asbuilts: Contact Troy Blanton at (803) 208-1484. If you cannot contact the above mentioned please contact Site Development Control, Austin Tadlock at (803) 952-8150, to produce asbuilt of the area prior to backfilled.
2. Please Note: A new site clearance permit is required for any additional work not specified in this site clearance permit.

Telecommunications

1. Restrictions shall apply as field conditions dictate. Contact Betty Ashley at (803) 557-5705 or Pam Lawson at (803) 557-5688 of JTI for further support and/or assistance.
2. Telecommunications infrastructure and/or cables may be routed near and through the site clearance boundary. Please contact an JTI (Jacobs Technology INC.) Customer Service Representative (CSR) at (803) 725-HELP and request the issuance of a Telecommunications Service Request (TSR) for JTI cable locating services before the start of any excavation and/or removal work tasks. Special Requirements as detailed: - Install sufficient infrastructure support systems to ensure stability of telecommunication cables and conduit duct banks during excavation. - The telecommunications copper cable, fiber cable and conduit duct bank interferences shall need to be located within the requested site clearance boundaries, as well as, five (5) feet on either side of the boundaries. This locating of the telecommunications copper cable, fiber cable and conduit duct bank interferences shall require the site clearance requester to issue a request to the contractor of their choice to perform a GPR type location survey and, as noted above, also issue a request to JTI to perform an electronic means locating survey. JTI is not responsible for requesting and/or performing the GPR type locating survey. - Ensure the required NEC/NESC separations (well-tamped earth, concrete, masonry, etc) are maintained between the existing telecommunication cables and conduit duct banks and any project installed utility infrastructure. All project installed utility infrastructure shall be placed under the existing telecommunication cables and conduit duct banks. - JTI will need to review the construction placement drawing before the start of construction as the design agency for SRS telecommunications.

INTERFERENCE(S)

Interferences with any open Site Clearance Permits (those which have not been As-built on the Site Development) areas reserved for Protection Forces use and RFI Sites are listed below and have been resolved as indicated.

WASTE SITES

1. UNIT_ID 592 - E-AREA LOW LEVEL WASTE FACILITY, 643-26E: MIRAN TYRRELL CONCURRED ON 30-MARCH-2023 WITH NO RESTRICTIONS.

SDC

Site Development Control

2023-0088
SC-8358
SU-N/A
4/17/2023

NOTES:
Interference(s)/encroachments with existing facilities/utilities as shown on the attached Site Development Map(s) are the responsibility of the requestor and have been reviewed prior to Site Clearance Request submittal as documented in the Interference/Encroachments Approvals Section of the attached Site Clearance Request.

Alterations to this Site Clearance Permit are not allowed.

Upon project completion As-built drawings must be submitted by the requestor to the SITE DEVELOPMENT CONTROL SECTION, (See attached Site Clearance Closure Form, OSR 3 - 120)

Failure to submit As-built drawings is in violation of procedure 3.02 in the 1D manual

---

Manager Site Development Control Attachments

Full size of excerpt of: M3310-0855

CC: Telecommunications
Environmental Protection

Request For Site Clearance Permit Closure

Return to SDC

Requestors Name	Phone	Date
COURSEY, DWAYNE E.	(803) 208-0618	
Department	**Building Number**	
N1520	704-51E	
Project Title		
REDUCE THE SIZE OF THE HI RAD FENCED AREA IN SWMF BACK 40.		
Site Clearance Permit Number	**Location of Project (Area)**	
8358	E	

Brief Description of Project
SITE CLEARANCE REQUEST TO REDUCE THE SIZE OF THE HI RAD FENCED AREA IN THE SOLID WASTE MANAGEMENT FACILITY (SWMF) BACK 40. LOCATED NORTH OF ASSOCIATED WASTE SHREDDER BUILDING 664-E. (U)

List interference/encroachment not on the Site Development Maps encountered during the construction phase of this project

List Attached As-Built Drawings or Sketches

Site Development Control and Mappings Use Only

The Site Clearance Permit is located on the following Site Development Maps

M3310-0855			

☐ AS-BUILT ☐ CANCELLED

Comments

AS-Built Placed By	Date
AS-Built Checked By	Date
Atlas Update Needed ☐	

Site Clearance Request

Submit to Site Development Control (SDC)

Date

Requestor Information

Requestors	Requestor Address	Phone	Pager
COURSEY, DWAYNE E.	704-51E	(803) 208-0618	N/A
Org Code N1520 / **Activity Code** 05F3SWOPER	**Email** dwayne.coursey@srs.gov		**Fax** null
Sponsor FULLER, KENNETH S. JR	**Sponsor Address** 704-59E	**Phone** (803) 208-2461	**Pager** N/A
Org Code N4000	**Email** kenneth.fuller@srs.gov		**Fax** null

Project Information

Project No.	Customer's Need Date	Deactivation and Decommision	Proposed End-State
N/A	4/10/2023	☐ Yes ☑ No	☐ Demolish ☑ Other ☐ In-Situ Disposal

Title - Site Clearance Request To

SITE CLEARANCE REQUEST TO REDUCE THE SIZE OF THE HI RAD FENCED AREA IN THE SOLID WASTE MANAGEMENT FACILITY (SWMF) BACK 40. LOCATED NORTH OF ASSOCIATED WASTE SHREDDER BUILDING 664-E. (U)

Building Number

Is a new building number required for this project? ☐ Yes ☑ No

If YES, please attach a completed Reservations of Structure Number form (OSR 3-124).

Site Use Permit

Is a Site User Permit required for this Project? ☐ Yes ☑ No

Site User Permit has been granted? ☐ Yes ☑ No SU No. N/A

Utilities

Does this Site Clearance Permit require the installation of Utilities? ☐ Yes ☑ No

Map Review

The following Site Development Maps have been reviewed for Documented Interferences/Encroachments.

M3310-0855					

Interference/Encroachment Approvals

The signatures below indicate that interference/encroachments with existing facilities and/or utilities, have been reviewed and accepted by the cognizant organization.

	Print Name	Signature	Date	Phone No.
Power Rep (Inner Area)	MOURING, LYNN	Approval on file	3/29/2023	(803) 557-9910
Power Rep (G-Area)				
Fire Protection Rep	PATEL, JANAKKUMAR B.	Approval on file	4/12/2023	(803) 952-8592
Telecommunications Rep	ASHLEY, BETTY S.	Approval on file	3/29/2023	(803) 557-5705
Railroads Rep				
Roadways Rep (Inner Area)	SOLESBY, WILLIAM J. JR	Approval on file	3/29/2023	(803) 557-5389
Roadways Rep (G-Area)	CAMPBELL, SHARON D.	Approval on file	3/29/2023	(803) 952-9742
Safeguards and Security	SANDERS, DAVID R.	Approval on file	3/29/2023	(803) 725-4913
Area Operations Rep 1	FULLER, KENNETH S. JR	Approval on file	4/10/2023	(803) 208-2461
Area Operations Rep 2				
Environmental Rep 1	TYRRELL, MIRAN F.	Approval on file	3/30/2023	(803) 952-6524
Environmental Rep 2	CONNER, STEVEN P.	Approval on file	4/12/2023	(803) 952-8842
Radiological Control	BRANT, KRISTIN W.	Approval on file	3/29/2023	(803) 952-7927
Protection Services	HATFIELD, ANTHONY T.	Approval on file	3/29/2023	(803) 952-7722
Historic Preservation Rep	FERRARA, SUSAN	Approval on file	4/4/2023	(803) 952-9571

Site Clearance Request

Attachments
The following prints and/or sketches indicate the size of the Facility by dimensions and the location of the Facility, either by plant coordinates or by dimensions relative to existing Facility.

Site Clearance Request

Submit to Site Development Control (SDC)

Date

Requestor Information

Requestors COURSEY, DWAYNE E.	Requestor Address 704-51E	Phone (803) 208-0618	Pager N/A
Org Code N1520 / Activity Code 05F3SWOPER	Email dwayne.coursey@srs.gov		Fax null
Sponsor FULLER, KENNETH S. JR	Sponsor Address 704-59E	Phone (803) 208-2461	Pager N/A
Org Code N4000	Email kenneth.fuller@srs.gov		Fax null

Project Information

Project No.	Customer's Need Date	Deactivation and Decommision	Proposed End-State
N/A	4/10/2023	☐ Yes ☑ No	☐ Demolish ☑ Other ☐ In-Situ Disposal

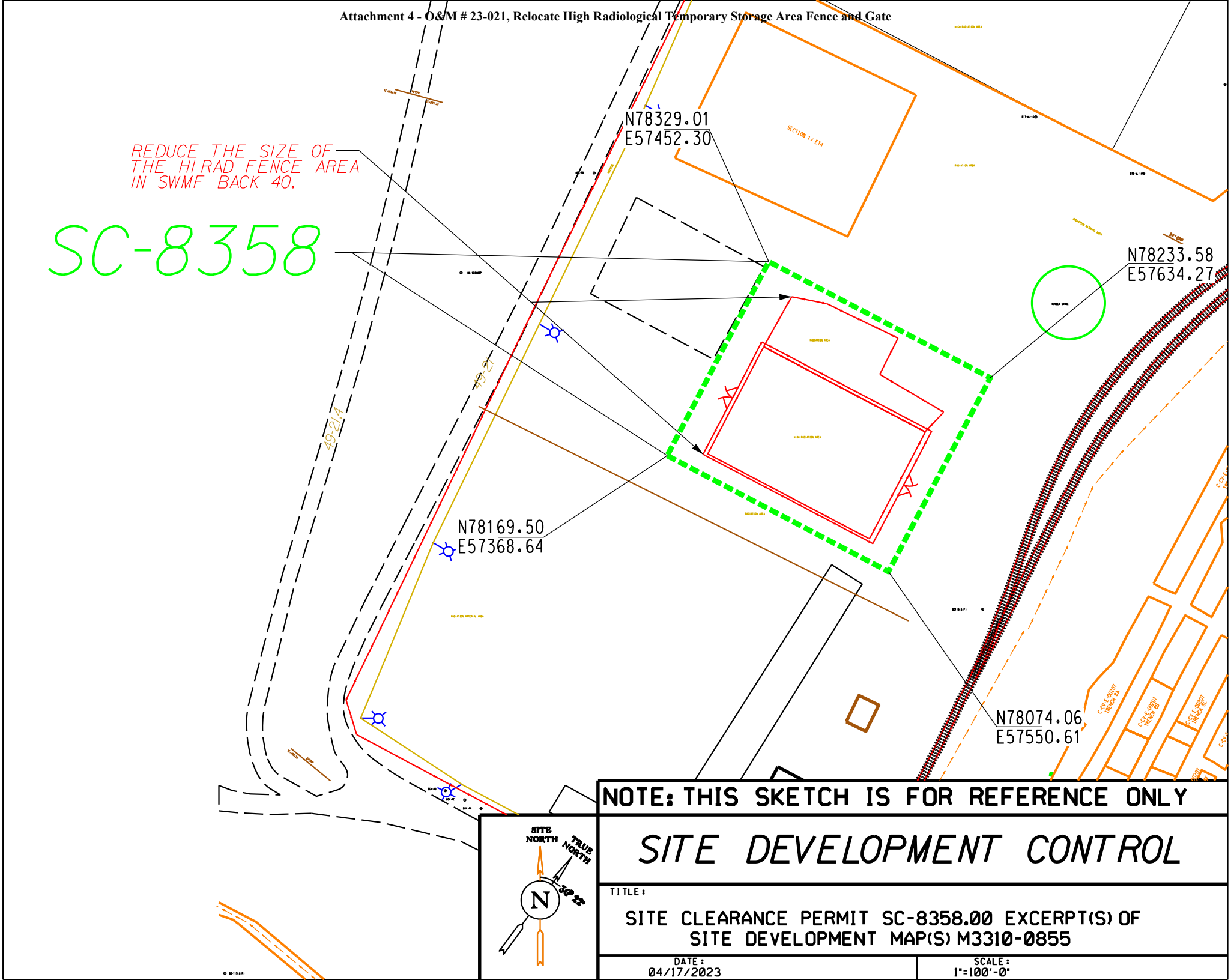
Title - Site Clearance Request To

SITE CLEARANCE REQUEST TO REDUCE THE SIZE OF THE HI RAD FENCED AREA IN THE SOLID WASTE MANAGEMENT FACILITY (SWMF) BACK 40. LOCATED NORTH OF ASSOCIATED WASTE SHREDDER BUILDING 664-E. (U)

Waste Sites

Waste Sites:

1. UNIT_ID 592 - E-AREA LOW LEVEL WASTE FACILITY, 643-26E:


REDUCE THE SIZE OF THE HI RAD FENCE AREA IN SWMF BACK 40.
SC-8358
N78329.01
E57452.30
N78233.58
E57634.27
N78169.50
E57368.64
N78074.06
E57550.61
49.21
49.21
SITE NORTH
TRUE NORTH
36° 22'
N
NOTE: THIS SKETCH IS FOR REFERENCE ONLY
SITE DEVELOPMENT CONTROL
TITLE:
SITE CLEARANCE PERMIT SC-8358.00 EXCERPT(S) OF SITE DEVELOPMENT MAP(S) M3310-0855
DATE:
04/17/2023
SCALE:
1"=100'-0"