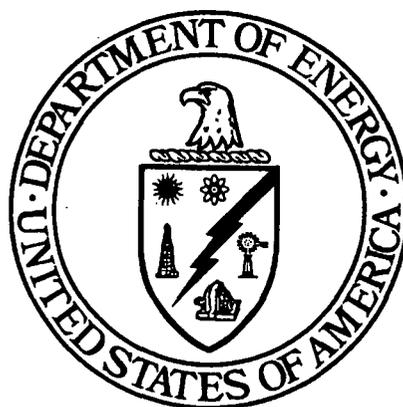


**PROJECT SPECIFIC PLAN FOR
EXCAVATION CONTROL AND PRECERTIFICATION
OF THE STREAM CORRIDORS
PILOT PLANT DRAINAGE DITCH AND PADDYS RUN
(SUPPLEMENT TO 20300-PSP-0011)**

DEMOLITION, SOIL AND DISPOSAL PROJECT

**FERNALD CLOSURE PROJECT
FERNALD, OHIO**



MAY 2005

**U.S. DEPARTMENT OF ENERGY
FERNALD AREA OFFICE**

**20820-PSP-0002
REVISION A
DRAFT**

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OF THE STREAM CORRIDORS
PILOT PLANT DRAINAGE DITCH AND PADDYS RUN
(SUPPLEMENT TO 20300-PSP-0011)**

**Document Number 20820-PSP-0002
Draft Revision A**

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FERNALD CLOSURE PROJECT

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LIST OF ACRONYMS AND ABBREVIATIONS

A2PII	Area 2, Phase II
ASCOC	area-specific constituent of concern
AWWT	Advanced Waste Water Treatment
CDL	Certification Design Letter
COC	constituent of concern
DOE	U.S. Department of Energy
DSDP	Demolition, Soil, and Disposal Project
EMS	Environmental Monitoring System
FACTS	Fernald Analytical Computerized Tracking System
FCP	Fernald Closure Project
FRL	final remediation level
GC	gas chromatograph
HPGe	high-purity germanium detector
MDC	minimum detectable concentration
mg/kg	milligrams per kilogram
NaI	Sodium Iodide
pCi/g	picoCuries per gram
PID	photo ionization detector
PPDD	Pilot Plant Drainage Ditch
ppm	parts per million
PSP	Project Specific Plan
PWID	Project Waste Identification and Disposition
RSS	Radiation Scanning System
RTIMP	Real Time Instrumentation Measurement Program
RTRAK	Real-Time Radiation Tracking System
RWP	Radiological Work Permit
SED	Sitewide Environmental Database
V/FCN	Variance/Field Change Notice
WAC	waste acceptance criteria
WAO	Waste Acceptance Organization

1.0 INTRODUCTION

This Project Specific Plan (PSP) describes the data collection activities necessary to support excavation control and precertification activities within the Pilot Plant Drainage Ditch (PPDD) and Paddys Run. This PSP only represents the specific information regarding soils and sediments within this portion of the Stream Corridors. The general information that is routinely addressed in a PSP can be found in 20300-PSP-0011, *Project Specific Plan Guidelines for General Characterization for Sitewide Soil Remediation*. While this PSP has section headings similar to a full-length PSP, where the information in the section is identical to the information in the General PSP (20300-PSP-0011), a reference to this PSP is made and the information is not repeated.

1.1 PURPOSE

The purpose of this PSP is to provide specific direction regarding the excavation control and precertification of soils and sediments within PPDD and Paddys Run. As shown on Figure 1-1, the PPDD and Paddys Run area is located along the western side of the Fernald site. Specific information on reasons to sample, sample location, number of borings, depth intervals, and constituents of concern will be documented according to Section 1.3.

1.2 SCOPE

The area included within the scope of this PSP is the PPDD and Paddys Run area (see Figure 1-1). The schedule for implementation of this PSP is expected to begin in May 2005. Precertification of this area will begin following successful completion of the excavation control process and prior to certification.

This PSP is not considered a work authorization document (for implementation of fieldwork) per SH-0012, Work Permits. Work authorization documents directing the implementation of fieldwork, per SH-0012, may include applicable Environmental Services procedures, Fluor Fernald work permits, Radiological Work Permits (RWPs), penetration permits, and other applicable permits.

1.3 VARIANCE/FIELD CHANGE NOTICE (V/FCN) DOCUMENTATION

The Variance/Field Change Notice (V/FCN) process is utilized to document the occurrence of two situations. The first is to document a change in protocol occurring when a modification in the characterization approach is required [e.g., a different decision process for defining the extent of contamination or for verifying that soil is below-waste acceptance criteria (WAC) or below-final remediation level (FRL) concentrations]. Factors that will be considered under special circumstances include safety of the workers, cost effectiveness, the need for a timely response, and impending weather conditions. This type of V/FCN requires agency approval prior to implementation.

1 The second situation requiring a V/FCN is to provide documentation of sampling and analytical activities
2 and to provide variable information that is dependent upon field conditions and cannot be specified
3 initially in this PSP. As part of the excavation control process, the collection of physical samples will be
4 documented in applicable field logs and with V/FCNs. Additionally, the Data Group Form, FS-F-5157
5 will be generated per Procedure EW-1021, Preparation of the Project Waste Identification and
6 Disposition (PWID) Report, following the generation of data from the analysis of physical samples. In this
7 situation the use of this V/FCN form is not used to document a change in the protocol of this PSP, but is
8 used to document sampling and analytical activities in order to demonstrate that these activities are
9 compliant with the protocols of this PSP.

10
11 If a V/FCN is required, the Characterization Manager will document the change and requirements through
12 the V/FCN process in accordance with Section 7.5 of the *Project Specific Plan Guidelines for*
13 *General Characterization for Sitewide Soil Remediation*, 20300-PSP-0011.

14
15 **1.4 KEY PERSONNEL**

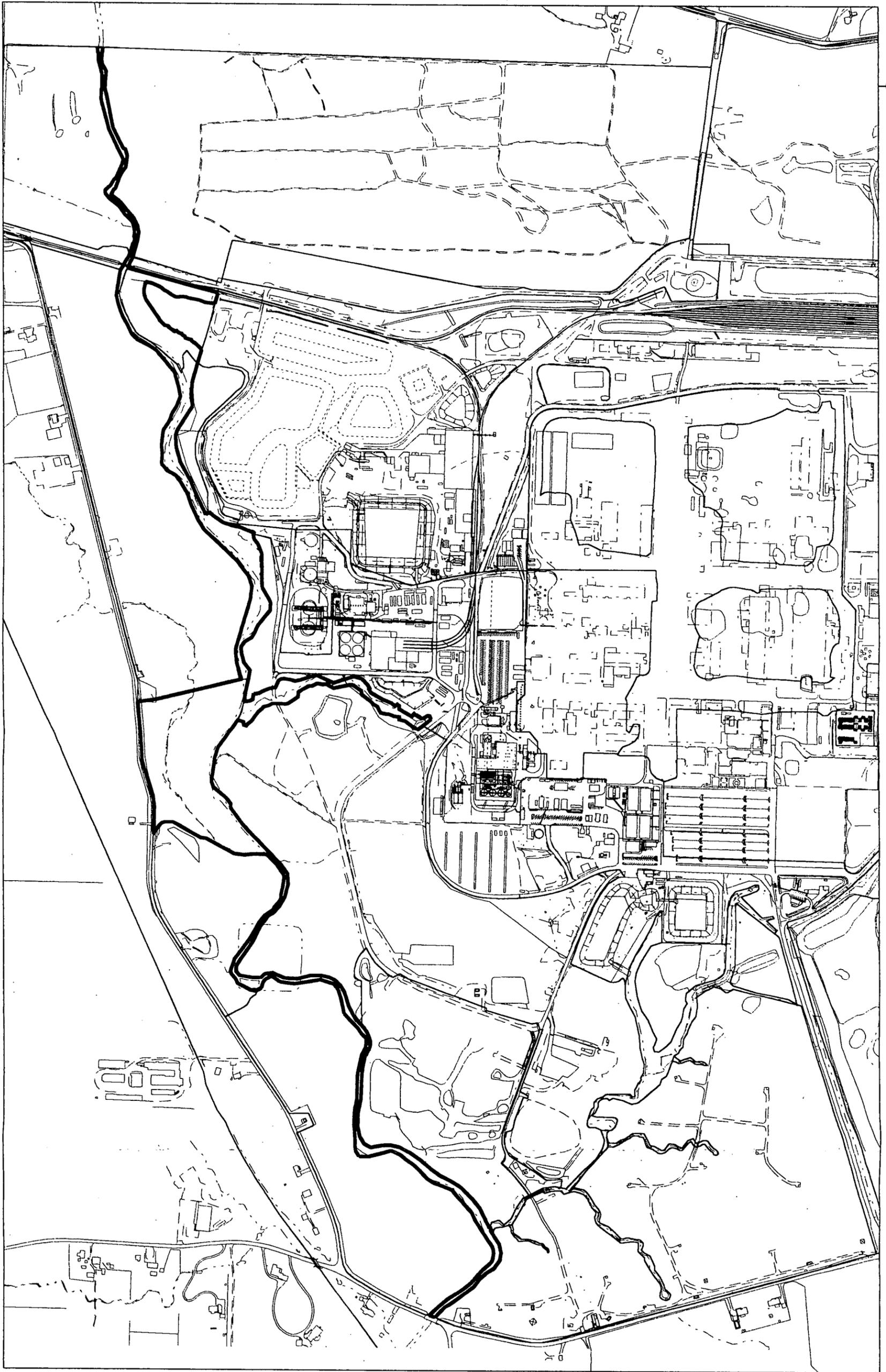
16 Key project personnel responsible for performance of the project are listed in Table 1-1.

**TABLE 1-1
 KEY PERSONNEL**

Title	Primary	Alternate
Department of Energy (DOE) Contact	Johnny Reising	TBD
DSDP Project Manager	Jyh-Dong Chiou	Frank Miller
Characterization Manager	Frank Miller	Debbie Brennan
Area Stream Corridors Lead	Debbie Brennan	Krista Flaugh
RTIMP Manager	Mike Frank	Dale Seiller
Soil Sampling Manager	Tom Buhrlage	Jim Hey
Surveying Manager	Jim Schwing	Andy Clinton
WAO Contact	Linda Barlow	TBD
Construction Manager	Mike Stumbo	Don Goetz
Engineering Lead	Tony Snider	Dave Russell
Laboratory Contact	Heather Medley	Amy Meyer
Data Validation Contact	Jim Chambers	Baohe Chen
Field Data Validation Contact	Dee Dee Edwards	Jim Chambers
Data Management Lead	Debbie Brennan	Krista Flaugh
Radiological Control Contact	Corey Fabricante	Mike Schneider
FACTS/SED Database Contact	Kym Lockard	Susan Marsh
Quality Control Contact	Reinhard Friske	Darren Wessel
Safety and Health Contact	Gregg Johnson	Pete Bolig

1
 2
 3

4
 5 DSDP - Demolition, Soil and Disposal Project
 6 FACTS - Fernald Analytical Computerized Tracking System
 7 RTIMP - Real Time Instrumentation Measurement Program
 8 SED - Sitewide Environmental Database
 9 WAO - Waste Acceptance Organization



LEGEND:

— PADDYS RUN/PPDD BOUNDARY

SCALE

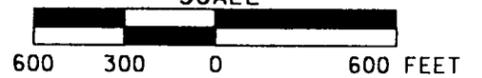


FIGURE 1-1. PADDYS RUN, ADJACENT OXBOW AREAS AND THE PILOT PLANT DRAINAGE DITCH

2.0 AREA-SPECIFIC WORK REMAINING STATUS

2.1 PADDYS RUN

2.1.1 History

The current location of Paddys Run is shown in Figure 1-1. Paddys Run flows approximately north to south along the western edge of the site. The length of the streambed on site is approximately two miles. Paddys Run's flow is highly variable, ranging from nearly dry conditions some summers to 500 cubic feet per second. Historically, Paddys Run received drainage from all but the extreme northeastern corner of the site. Since the mid-1980s, drainage from the most contaminated areas of the site has been controlled by diverting it to lined storage basins, where the water is stored before treatment in the Advanced Waste Water Treatment (AWWT) Facility. Historical soil sampling and analysis data as well as any above-FRL results from the Paddys Run oxbow areas is summarized in 20300-PSP-0008, *Project Specific Plan for Real-Time Scan of Paddys Run Corridor and Associated Drainage Features*.

Due to the limited amount of historical data available in parts of Paddys Run as well as isolated areas of contamination found along Paddys Run, a significant sampling effort was undertaken during predesign to characterize this area. As specified in the Predesign PSP, a variety of locations, depths, and analytes were chosen for this sampling effort to investigate the concentration of both radiological and non-radiological parameters. Samples collected in association with 20300-PSP-0013, *PSP for Predesign Characterization of Sediments in Paddys Run and Associated Drainage Features* identified isolated instances of above-FRL results for radium-226 and arsenic at points along the length of Paddys Run (see Figure 2-1).

2.1.2 Predesign

Predesign of the Paddys Run Area was completed under the 20300-PSP-0013, *Project Specific Plan for Predesign Characterization of Sediments in Paddys Run and Associated Drainage Features*. Therefore, Section 2.1.2 is not applicable to this PSP.

2.1.3 Excavation Control

2.1.3.1 ASCOCs

Only Radium-226 (in a single location) was identified as requiring excavation to remove above-FRL contamination in Paddys Run during the characterization process. Table 2-1 and Figure 2-1 identify the area to be excavated and the constituent of concern (COC) driving excavation (radium-226). Therefore, excavation will be controlled through the use of real time measurement systems.

The evaluation of the list of preliminary area-specific constituents of concern (ASCOCs) from 20300-PSP-0013, *Project Specific Plan for Predesign Characterization of Sediments in Paddys Run and*

1 *Association Drainage Features* resulted in the following list of COCs for excavation control of the Paddys
2 Run Area:

3
4 **Primary COCs**

5
6 Total Uranium
7 Radium-226
8 Radium-228
9 Thorium-228
10 Thorium-232

11
12 The above list of COCs will be used to verify that the planned excavation limits are sufficient to capture
13 the above-FRL contamination during excavation. Note that the entire ASCOC list applicable to this area
14 will be reevaluated during the certification design process to determine which of the ASCOCs will be
15 carried into certification. As always, this evaluation as well as the justification for the retention or
16 elimination of any COC will be presented in the Certification Design Letter (CDL) for agency review and
17 approval.

18
19 **2.1.3.2 Excavation Types**

20 There is no historical evidence of sediments and/or soil exceeding the OSDF WAC levels within the
21 Stream Corridors sediments and none was found during the predesign phase of this investigation.
22 Therefore, the types of excavation identified for Paddys Run will be for above-FRL areas (driven by
23 radium-226). Real-time scanning for radium-226 will be performed for above-FRL radiological areas per
24 20300-PSP-0011, Section 5.1. Tables 2-1 and 2-2 list the excavation control COCs, their limits, and the
25 above-FRL area within Paddys Run. Table 2-3 addresses the excavation monitoring and sampling
26 requirements for this area.

27
28 **2.1.3.3 Locations**

29 There is only one excavation area in Paddys Run (driven by radium-226). This area is shown on Table 2-3
30 and illustrated in Figure 2-1.

31
32 **2.1.4 Precertification**

33 Precertification will be performed per 20300-PSP-0011, Section 3.0 and Section 6.0.

34
35 **2.2 PILOT PLANT DRAINAGE DITCH**

36 **2.2.1 History**

37 The PPDD is a tributary to Paddys Run. It is located on the boundary between Area 2, Phase II (A2PII)
38 and Area 7 south of the silos and their associated remediation facilities. It spans from the western edge of

1 the Former Production Area, just west of the Former Pilot Plant, over to Paddys Run. It enters Paddys Run
2 southwest of Silo 1. The PPDD has been identified as a source of contamination into the aquifer. As such,
3 samples were collected under the *PSP for Predesign Sampling in the A2PII - Parts Two and Three*. The
4 results of these samples indicate that elevated levels of uranium are present at the surface and (in one
5 location) at depth. Samples were also collected under the PSP for WAC Attainment of Area 7 Soils. The
6 results from these samples supported those from the A2PII - Parts Two and Three sampling events.
7 Further predesign data was collected under the *PSP for Predesign Characterization of Sediments in*
8 *Paddys Run and Associated Drainage Features* to determine the extent of contamination from the other
9 ASCOCs as well as to determine the extent of the original contamination found (see Figure 2-1).

10
11 Due to isolated occurrences of contamination found in the PPDD, a significant effort was undertaken
12 during predesign to further characterize and/or verify the historical data. As specified in the Predesign PSP
13 and it's attendant V/FCNs, a variety of locations, depths, and analytes were chosen in this sampling effort
14 to investigate the concentration of both radiological and non-radiological parameters.

15
16 **2.2.2 Predesign**

17 Predesign of the PPDD was completed under the 20300-PSP-0013, *PSP for Predesign Characterization of*
18 *Sediments in Paddys Run and Associated Drainage Features*. Therefore, Section 2.2.2 is not applicable to
19 this PSP.

20
21 **2.2.3 Excavation Control**

22 **2.2.3.1 ASCOCs**

23 Only total uranium was identified as requiring excavation to remove above-FRL contamination along the
24 PPDD during the characterization process. Table 2-1 and Figure 2-1 identify the areas to be excavated and
25 the COC driving each excavation.

26
27 The evaluation of the list of preliminary ASCOCs from 20300-PSP-0013, *PSP for Predesign*
28 *Characterization of Sediments in Paddys Run and Association Drainage Features* resulted in the
29 following list of COCs for excavation control of the PPDD. This list of primary COCs is unchanged and
30 will be carried through to certification:

31
32 **Primary COCs**

- 33
- 34 Total Uranium
- 35 Radium-226
- 36 Radium-228
- 37 Thorium-228
- 38 Thorium-232

1 The above list of COCs will be used to verify that the planned excavation limits are sufficient to capture
2 the above-FRL contamination during excavation. Note that the entire ASCOC list applicable to this area
3 will be reevaluated during the certification design process to determine which of the ASCOCs will be
4 carried into certification. As always, this evaluation as well as the justification for the retention or
5 elimination of any COC will be presented in the combined CDL/Certification PSP for agency review and
6 approval.

7 8 2.2.3.2 Excavation Types

9 There is no historical evidence of sediments and/or soil exceeding the OSDF WAC levels within the
10 Stream Corridors sediments and none was found during the predesign phase of this investigation.
11 Therefore, the types of excavation identified for the PPDD will be for above-FRL areas (driven by total
12 uranium). Real-time scanning for total uranium will be performed for above-FRL radiological areas per
13 20300-PSP-0011, Section 5.1. Tables 2-1 and 2-2 lists the excavation control COCs, their limits, and
14 above-FRL areas within the PPDD. Table 2-3 addresses the excavation monitoring and sampling
15 requirements for this area.

16 17 2.2.3.3 Locations

18 The areas identified as being above-FRL (traveling west to east) along the PPDD are summarized in
19 Table 2-1 and illustrated in Figure 2-1.

20 21 2.2.4 Precertification

22 Precertification will be performed per 20300-PSP-0011, Section 3.0 and Section 6.0.

TABLE 2-1
ABOVE-FRL AREAS AND COCs FOR PPDD/PADDYS RUN

Above-FRL Area	Location	Contaminant Driving Excavation	Depth Interval
1	Located on the eastern bank of PR, west of the silos	Radium-226	1.0'
2	Area located on the western end of the PPDD, south of silos.	Total Uranium	3.0'
3	Located midway along the northern bank of the PPDD, south of silos.	Total Uranium	West - 1.0' East - 4.0'
4	Area on the eastern end of the PPDD, adjacent to the haul road.	Total Uranium	1.0'

TABLE 2-2
LIMITS FOR PPDD/PADDYS RUN EXCAVATION CONTROL COCs

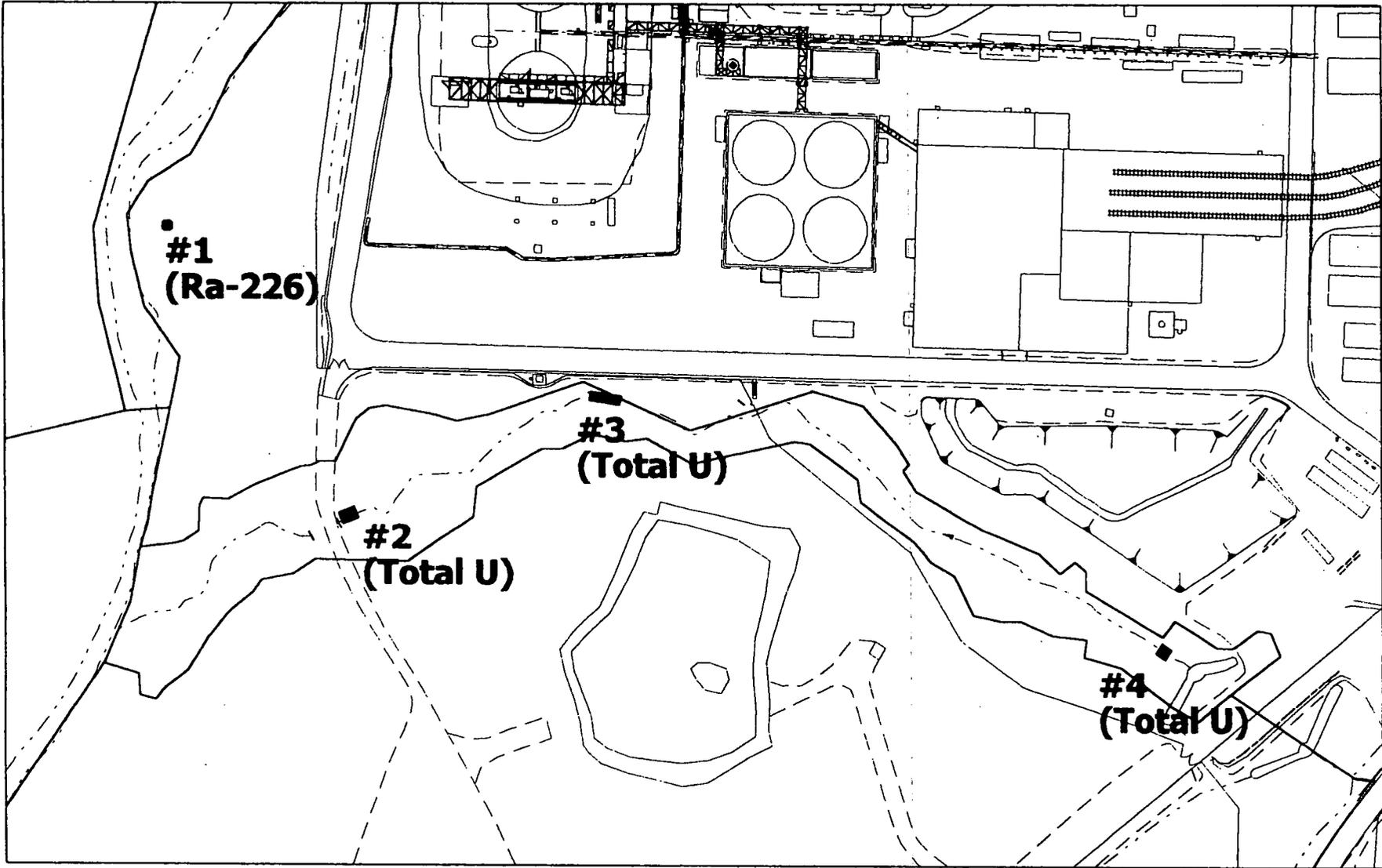
Primary COCs	FRL	MDC
Total Uranium	82 mg/kg	8.2 mg/kg
Radium-226	1.7 pCi/g	0.17 pCi/g

MDC - minimum detectable concentration
 mg/kg - milligrams per kilogram
 pCi/g - picoCuries per gram

TABLE 2-3
EXCAVATION MONITORING/SAMPLING REQUIREMENTS FOR PPDD/PADDYS RUN

Type of Contamination Zone	Types of Samples/Measurements and Data Use		
	Sideslope of Each Excavation Lift	Floor of Each Excavation Lift	Floor/Sideslope at Design Depth for Contamination Zone
Above-FRL Uranium	• HPGe for Uranium	• HPGe for Uranium (WAC*)	• HPGe for Uranium (FRL*)
Above-FRL Radium-226	• HPGe for Radium-226/ Uranium	• HPGe for Uranium (WAC*)	• HPGe for Radium-226

* During high-purity germanium (HPGe) detector measurements, the data collected will be evaluated later for precertification purposes by reviewing concentrations of thorium-232 and radium-226, as well as thorium-228 and radium-228 based on equilibrium, in comparison to their respective FRLs.



LEGEND:

SCALE



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FIGURE 2-1. EXCAVATION AREAS IN THE STREAM CORRIDORS,
PADDYS RUN AND THE PILOT PLANT DRAINAGE DITCH

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3.0 INSTRUMENTATION AND TECHNIQUES

Reference the corresponding section of 20300-PSP-0011, *PSP Guidelines for General Characterization for Sitewide Soil Remediation* for each of the following sections:

3.1 MEASUREMENT INSTRUMENTATION AND TECHNIQUES

3.1.1 Real-Time

3.1.1.1 Sodium Iodide Data Acquisition (RTRAK, RSS, GATOR, EMS)

3.1.1.2 HPGe Data Acquisition

3.1.1.3 Excavation Monitoring System

3.1.1.4 Radon Monitor

3.1.2 Surface Moisture Measurements

3.2 REAL-TIME MEASUREMENT IDENTIFICATION

3.3 REAL-TIME DATA MAPPING

3.4 REAL-TIME SURVEYING

4.0 PREDESIGN

The predesign investigation of the Stream Corridors was completed per 20300-PSP-0013, *PSP for Predesign Characterization of Sediments in Paddys Run and Association Drainage Features*.

5.0 EXCAVATION CONTROL MEASURES

Reference the corresponding section of 20300-PSP-0011, *Project Specific Plan Guidelines for General Characterization for Sitewide Soil Remediation* for each of the following sections:

5.1 EXCAVATION DESIGN CONTROL REQUIREMENTS

5.1.1 Contamination Zone

5.1.2 Floors, Roads and Foundations

5.1.3 Real-Time Lift Scans

5.1.4 Above-WAC Lift Scans

5.2 ORGANIC SCREENING AND PHYSICAL SAMPLING REQUIREMENTS

5.2.1 Above-WAC Photoionization Detector (PID)/Gas Chromatograph (GC) Screening

5.2.2 All Other Physical Sample Requirements

5.2.3 PID Screening and Physical Sampling Procedures

5.2.4 Physical Sample Identification

6.0 PRECERTIFICATION

Reference the corresponding section of 20300-PSP-0011, *Project Specific Plan Guidelines for General Characterization for Sitewide Soil Remediation* for each of the following sections:

6.1 INITIAL PRECERTIFICATION NaI SCAN AT BASE OF DESIGN GRADE

6.2 PRECERTIFICATION HPGE MEASUREMENTS IN 20 PPM FRL (URANIUM) AREAS

6.3 PRECERTIFICATION HPGE MEASUREMENTS IN 82 PPM FRL (URANIUM) AREAS

6.4 DELINEATING HOT SPOTS FOLLOWING PRECERTIFICATION HPGE MEASUREMENTS

7.0 QUALITY ASSURANCE/QUALITY CONTROL REQUIREMENTS

Reference the corresponding section of 20300-PSP-0011, *Project Specific Plan Guidelines for General Characterization for Sitewide Soil Remediation* for each of the following sections:

7.1 QUALITY CONTROL SAMPLES - REAL-TIME MEASUREMENTS AND PHYSICAL SAMPLES

7.2 DATA VALIDATION

7.2.1 Physical Sample Data Validation

7.2.2 Real-Time Data Verification/Validation

7.3 APPLICABLE DOCUMENTS, METHODS AND STANDARDS

7.4 SURVEILLANCES

7.5 IMPLEMENTATION AND DOCUMENTATION OF VARIANCE/FIELD CHANGE NOTICES (V/FCN)

8.0 SAFETY AND HEALTH

Reference the corresponding section of 20300-PSP-0011, *Project Specific Plan Guidelines for General Characterization for Sitewide Soil Remediation* for this section.

9.0 EQUIPMENT DECONTAMINATION

Reference the corresponding section of 20300-PSP-0011, *Project Specific Plan Guidelines for General Characterization for Sitewide Soil Remediation* for this section.

10.0 DISPOSITION OF WASTES

Reference the corresponding section of 20300-PSP-0011, *Project Specific Plan Guidelines for General Characterization for Sitewide Soil Remediation* for this section.

11.0 DATA AND RECORDS MANAGEMENT

Reference the corresponding section of 20300-PSP-0011, *Project Specific Plan Guidelines for General Characterization for Sitewide Soil Remediation* for each of the following sections:

11.1 REAL-TIME

11.2 PHYSICAL SAMPLES