

**PROJECT SPECIFIC PLAN FOR THE EXCAVATION CONTROL OF
AREAS 3B, 4B, AND 5**

SOIL AND DISPOSAL FACILITY PROJECT

**FERNALD CLOSURE PROJECT
FERNALD, OHIO**



OCTOBER 2003

U.S. DEPARTMENT OF ENERGY

**20810-PSP-0006
REVISION 0
FINAL**

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Figure 2-1 3B/4B/5 AWAC Locations

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LIST OF ACRONYMS AND ABBREVIATIONS

ALS	Analytical Laboratory Services
ASCOC	area-specific constituent of concern
ASL	analytical support level
AWWT	Advanced Wastewater Treatment (Facility)
CDL	Certification Design Letter
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
COC	constituent of concern
CU	certification unit
DOE	U.S. Department of Energy
DQO	Data Quality Objective
EMS	Excavation Monitoring System
FACTS	Fernald Analytical Computerized Tracking System
FCP	Fernald Closure Project
FPA	former Production Area
FRL	final remediation level
FTF	Fire Training Facility
GC	gas chromatograph
GPS	global positioning system
GMA	Great Miami Aquifer
HPGe	high-purity germanium (detector)
LAN	Local Area Network
NaI	sodium iodide
OSDF	On-Site Disposal Facility
PID	photoionization detector
PPE	personal protective equipment
ppm	parts per million
PSP	Project Specific Plan
PWID	Project Waste Identification Document
QA/QC	Quality Assurance/Quality Control
RSS	Radiation Scanning System
RTIMP	Real-Time Instrumentation Measurement Program
RTRAK	Real-Time Radiation Tracking System
RWP	Radiological Work Permit
SCQ	Sitewide CERCLA Quality Assurance Project Plan
SDFP	Soil and Disposal Facility Project
SED	Sitewide Environmental Database
SEP	Sitewide Excavation Plan
SMMP	Soil and Miscellaneous Media Sampling
SWL	Solid Waste Landfill
TAL	Target Analyte List
TCLP	Toxicity Characteristic Leaching Procedure
V/FCN	Variance/Field Change Notice
VOC	volatile organic compound
WAC	Waste Acceptance Criteria
WAO	Waste Acceptance Organization
WPRAP	Waste Pits Remedial Action Project

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1.0 INTRODUCTION

This project specific plan (PSP) describes the data collection activities necessary to support excavation control of Area 3B, Area 4B, and Area 5. The format of this PSP differs from that of previously submitted PSPs as this PSP only presents the specific information regarding Area 3B, 4B, and 5. 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 general 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 of Area 3B, Area 4B, and Area 5. This detailed information includes reason to sample, sample locations, number of borings, depth intervals, and constituents of concern.

1.2 SCOPE

The areas included within the scope of this PSP are Area 3B, Area 4B, and Area 5.

The schedule for implementation of this PSP is expected to begin in the fall of 2003. Area 3B is expected to be excavated fall of 2003, followed by precertification prior to certification. Area 4B is expected to be excavated winter of 2003, followed by precertification prior to certification. Area 5 is expected to be excavated spring of 2004, followed by precertification prior to certification. The eastern field of Area 5 (currently Sediment Basin 2 was certified per Certification Report for the Area 5 Eastern Field (20820-RP-0001) in September 2002.

This PSP is not considered a work authorization document per SH-0021, Work Permits. Work authorization documents per SH-0021 may include applicable Environmental Services procedures, Fluor Fernald work permits, Radiological Work Permit (RWP), penetration permits, and other applicable permits.

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

Field conditions may arise that warrant a different decision process for defining the extent of contamination or for verifying that soil is below-WAC or below-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. In the event that a change in the characterization approach is needed, the Characterization Manager will document the change and requirements through the Variance/Field Change Notice (V/FCN) process in accordance with Section 7.5. In the event that changes need to be implemented expeditiously, verbal or electronic mail authorization will suffice followed by the written authorization on the V/FCN within seven working days. Changes to the PSP will also be noted in the applicable Field Activity Logs. Additionally, V/FCNs that are considered to be significant will require approval from the regulatory agencies in accordance with Soil and Disposal Facility Project (SDFP) agreements.

As part of the excavation control process, the collection of physical samples will be documented in applicable field logs and with V/FCNs. Additionally, the Data Group Form, FS-F-5157 will be generated per Procedure EW-1021, Preparation of the Project Waste Identification and Disposition (PWID) Report, following the generation of data from the analysis of physical samples. If field conditions require changes or variances, a V/FCN will be developed and approved by the Characterization Lead, QA Representative, and WAO.

1.4 KEY PERSONNEL

Reference Section 1.4 of 20300-PSP-0011, *Project Specific Plan Guidelines for General Characterization for Sitewide Soil Remediation*.

2.0 AREA-SPECIFIC WORK REMAINING STATUS

2.1 AREA 3B

2.1.1 History

Remediation Area 3B lies in the northwest quadrant of the Former Production Area (FPA). The area is bounded by the Impacted Material Haul Road (IMHR) to the north, "B" Street to the east, the southern edge of the Plant 1 Pad and the Building 71 loading dock to the south, and the FPA fence line to the west. The excavation area for Area 3B was increased to accommodate the placement of the utility isolation trench on the north side of the Area 4B excavation. Part of Area 3B will be included in the remediation of the Main Drainage Corridor.

Facilities located in Area 3B excavation area include the Preparation Plant (1A), Plant 1 Storage Building (1B), Plant 1 Ore Silos (1C), NFS Storage and Pump House (2E), Conveyor Tunnel (2H), Chemical Warehouse (30A), Drum Storage Warehouse (30B), CP Storage Warehouse (56A), General In-Process Warehouse (71), and Plant 1 Storage Pad (74T). Plant 1 Storage Pad also encompasses Hazardous Waste Management Unit (HWMU) 20.

2.1.2 Predesign

This supplemental PSP differs from the typical supplemental PSP because predesign activities are complete. The predesign investigation of Area 3B was completed per *Project Specific Plan for Delineating Known Exceedances of the On-Site Disposal Facility Waste Acceptance Criteria In Areas 3B/4B/5*, 20810-PSP-0004. Therefore, the required subsections for this section per 20300-PSP-0011 are not applicable and are not listed.

2.1.3 Excavation Control

2.1.3.1 ASCOCs

The preliminary list of ASCOCs, found in the SEP Table 2-7, data from the predesign investigation of 3B, historical information from 3A/4A, and HWMU 20 COCs, resulted in the following list of primary and secondary COCs:

Primary COCs

- Radium-226
- Radium-228
- Thorium-228
- Thorium-232
- Total Uranium

Secondary COCs

- Aroclor-1254
- Arsenic
- Barium
- Beryllium
- 1,1-Dichloroethene
- 1,2-Dichloroethene
- Lead
- Methylene chloride
- Technetium-99
- Tetrachloroethene
- 1,1,1 Trichloroethane
- Trichloroethene
- Xylene

The data collected in Area 3B was compared to the OSDF WAC. The only constituents that were above-WAC in Area 3B are technetium-99 and total uranium. The modeled depth for total uranium extends below all other above-FRL contamination; therefore, the only constituents controlling excavation in Area 3B are technetium-99 and total uranium.

2.1.3.2 Excavation Types

The types of excavation identified in Area 3B are those that are either above-WAC (driven by total uranium or technetium-99) or above-FRL (driven by total uranium). Real-time scanning for total uranium will be performed for both AWAC uranium areas and above-FRL uranium areas per 20300-PSP-0011, Section 5.1. Physical sampling for excavation control for AWAC technetium-99 contamination will be performed per 20300-PSP-0011, Section 5.2.

2.1.3.3 Locations

The list of AWAC areas (see Figure 2-1) and COCs are as follows:

AWAC Areas	COC
Plant 1 Pad – Northwest (part of HWMU 20)	Total Uranium
Plant 1 Pad - North Central	Total Uranium
Plant 1 Pad - TS 4 (part of HWMU 20)	Technetium-99
Plant 1 Pad – Southwest (part of HWMU 20)	Technetium-99

2.1.4 Precertification

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

2.2 AREA 4B

2.2.1 History

Remediation Area 4B lies in the southwest corner of the FPA. The area is bounded by the Plant 1 Pad to the north, along "B" Street to the east, the FPA fence to the west and south, and the laboratory to the south. The excavation area for Area 4B was reduced due to the placement of the utility isolation trench on the north side of the Area 4B excavation. The placement of this utility isolation trench reduced the Area 4B excavation area by including the very northern portion of Area 4B in the Area 3B excavation. Part of Area 4B will be included in the remediation of the Main Drainage Corridor.

Facilities located in Area 4B excavation area include the Ore Refinery Plant (2A), General/Refinery Sump Control Building (2B), Bulk Lime Handling Building (2C), Metal Dissolver Building (2D), Cold Side Ore Conveyor (2F), Hot Side Ore Conveyor (2G), Maintenance Building (3A), Ozone Building (3B), Nitric Acid Recovery (NAR) Control House (3C), NAR Towers (3D), Hot Raffinate Building (3E), Harshaw System (3F), Refrigeration Building (3G), Refinery Sump (3H), Combined Raffinate Tanks (3J), Old Cooling Tower (3K), Electrical Power Center Building (3L), Recovery Plant (8A), Plant 8 Maintenance Building (8B), Rotary Kiln/Drum Reconditioning (8C), Plant 8 Railroad Filter Building (8D), Drum Conveyor Shelter (8E), Plant 8 Old Drum Washer (8F), Trash Compactor (8G), Soil Washing (8H), Pilot Plant Wet Side (13A), Pilot Plant Maintenance Building (13B), Sump Pump House (13C), Pilot Plant Thorium Tank Farm (13D), Laboratory (15A), General Sump (18B), Bionitrification Towers (18D), Well House #1 (20E), Well House #2 (20F), Well House #3 (20G), Scale House and Weigh Scale (22D), Pump House-HP Fire Protection (26A), Elevated Water Storage Tank (26B), Pilot Plant Annex (37), Construction Division Building [Laboratory Machine Shop] (45A), Six to Four Reduction Facility #1 (54A), Pilot Plant Warehouse (54B), Pilot Plant Dissociator Building (54C), Pilot Plant Warehouse (68), Plant 2 East Pad (74A), Plant 2 West Pad (74B), Plant 8 East Pad (74C), Plant 8 West Pad (74D), Plant 8 Old Metal Dissolver Pad (74Q), Plant 8 North Pad (74R), Pilot Plant Pad (74U), Laboratory Pad (74V), and Incinerator Building Pad (74W).

There are three Hazardous Waste Management Units (HWMU) of concern in Area 4B. They include the Plant 8 East Pad (HWMU 17), the Drum Storage Area near the Lab Building loading dock (HWMU 4), and the Abandoned Sump west of Pilot Plant (HWMU 22).

2.2.2 Predesign

This supplemental PSP differs from the typical supplemental PSP because predesign activities are complete. The predesign investigation of Area 4B was completed per *Project Specific Plan for Delineating Known Exceedances of the On-Site Disposal Facility Waste Acceptance Criteria In*

Areas 3B/4B/5, 20810-PSP-0004. Therefore, the required subsections for this section per 20300-PSP-0011 are not applicable and are not listed.

2.2.3 Excavation Control

2.2.3.1 ASCOCs

The preliminary list of ASCOCs found in the SEP Table 2-7, data from the predesign investigation of 4B, historical information from 3A/4A, and HWMUs 4, 17, and 22 COCs resulted in the following list of primary and secondary COCs:

Primary COCs

- Radium-226
- Radium-228
- Thorium-228
- Thorium-232
- Total Uranium

Secondary COCs

- Aroclor-1254
- Arsenic
- Barium
- Benzene
- Beryllium
- Chromium
- 1,1-Dichloroethene
- 1,2-Dichloroethene
- Lead
- Mercury
- Technetium-99
- Tetrachloroethene
- Toluene
- Trichloroethene
- Xylene

The data collected in Area 4B was compared to the OSDF WAC. The only constituents that were above-WAC in Area 4B are technetium-99 and total uranium. The modeled depth for total uranium extends below all other above-FRL contamination; therefore, the only constituents controlling excavation in Area 4B are technetium-99 and total uranium.

2.2.3.2 Excavation Types

The types of excavation identified in Area 4B are those that are either above-WAC (driven by total uranium and/or technetium-99) or above-FRL (driven by total uranium). The only constituents controlling excavation in Area 4B are technetium-99 and total uranium.

Real-time scanning for total uranium will be performed for both AWAC uranium areas and above-FRL uranium areas per 20300-PSP-0011, Section 5.1. Physical sampling for excavation control for AWAC technetium-99 contamination will be performed per 20300-PSP-0011, Section 5.2.

2.2.3.3 Locations

The list of AWAC areas (see Figure 2-1) and COCs are as follows:

AWAC Areas	COC
Plant 2 – Northwest	Technetium-99/Total Uranium
Plant 2 – Northeast	Total Uranium
Plant 2 – Southwest	Total Uranium
Plant 8 – Northeast	Technetium-99/Total Uranium
Plant 8 – Central (part of HWMU 17)	Technetium-99
Pilot Plant – Northwest	Technetium-99
Pilot Plant – West (part of HWMU 22)	Total Uranium
Pilot Plant – South	Technetium-99
Lab Building – Loading Dock (part of HWMU 4)	Technetium-99/Total Uranium
Lab Building – North Courtyard	Total Uranium
Lab Building – Southwest corner	Technetium-99/Total Uranium
K-65 Trench	Technetium-99

2.2.4 Precertification

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

2.3 AREA 5

2.3.1 History

Remediation Area 5 lies in the southern portion of the FPA and northern Administration Area. The area is bounded by 1st Street to the north, Areas 4B and 7 to the west, Area 7 to the south, and Areas 6 and 7 to the east. Part of Area 5 will be included in the remediation of the Main Drainage Corridor.

Facilities located in Area 5 excavation area include the Service Building (11), Administration Building (14A), Building 14 EOC Generator Set (14B), Electrical Substation (16B), Electrical Panels and Transformers (16C), Trailer Substation #1 (16F), Trailer Substation #2 (16G), Storm Sewer Lift Station (22B), Security Building (28A), Industrial Relations Building (28B), Vehicle Repair Garage (31A), Old Truck Scale (31B), Vehicle Repair Garage Annex (46), Health and Safety Building (53A), In-Vivo Building (53B), Southeast Parking Lot (89A), and Main Parking Lot (89B).

2.3.2 Predesign

This supplemental PSP differs from the typical supplemental PSP because predesign activities are complete. The predesign investigation of Area 5 was completed per *Project Specific Plan for Delineating Known Exceedances of the On-Site Disposal Facility Waste Acceptance Criteria In Areas 3B/4B/5*, 20810-PSP-0004, as well as the *Project Specific Plan for Predesign Investigation in Area 5*, 20810-PSP-0005. Therefore, the required subsections for this section per 20300-PSP-0011 are not applicable and are not listed.

2.3.3 Excavation Control

2.3.3.1 ASCOCs

The preliminary list of ASCOCs found in the SEP Table 2-7, data from the pre-design investigation of 5, and historical information from 3A/4A resulted in the following list of primary and secondary COCs:

Primary COCs

- Radium-226
- Radium-228
- Thorium-228
- Thorium-232
- Total Uranium

Secondary COCs

- Aroclor-1254
- Arsenic
- Beryllium

The data collected in Area 5 was compared to the OSDF WAC and all of the constituents were below-WAC. The modeled depth for total uranium extends below all other above-FRL contamination with the exception of arsenic; therefore, the only constituents controlling excavation in Area 5 are arsenic and total uranium.

2.3.3.2 Excavation Types

The types of excavation identified in Area 5 are those that are above-FRL (arsenic and total uranium). The only constituents controlling excavation in Area 5 are arsenic and total uranium. The above-FRL area for arsenic, which is located in the parking lot, is not within the bounds of the above-FRL area for total uranium. Therefore, the above-FRL area for arsenic will be controlled separately.

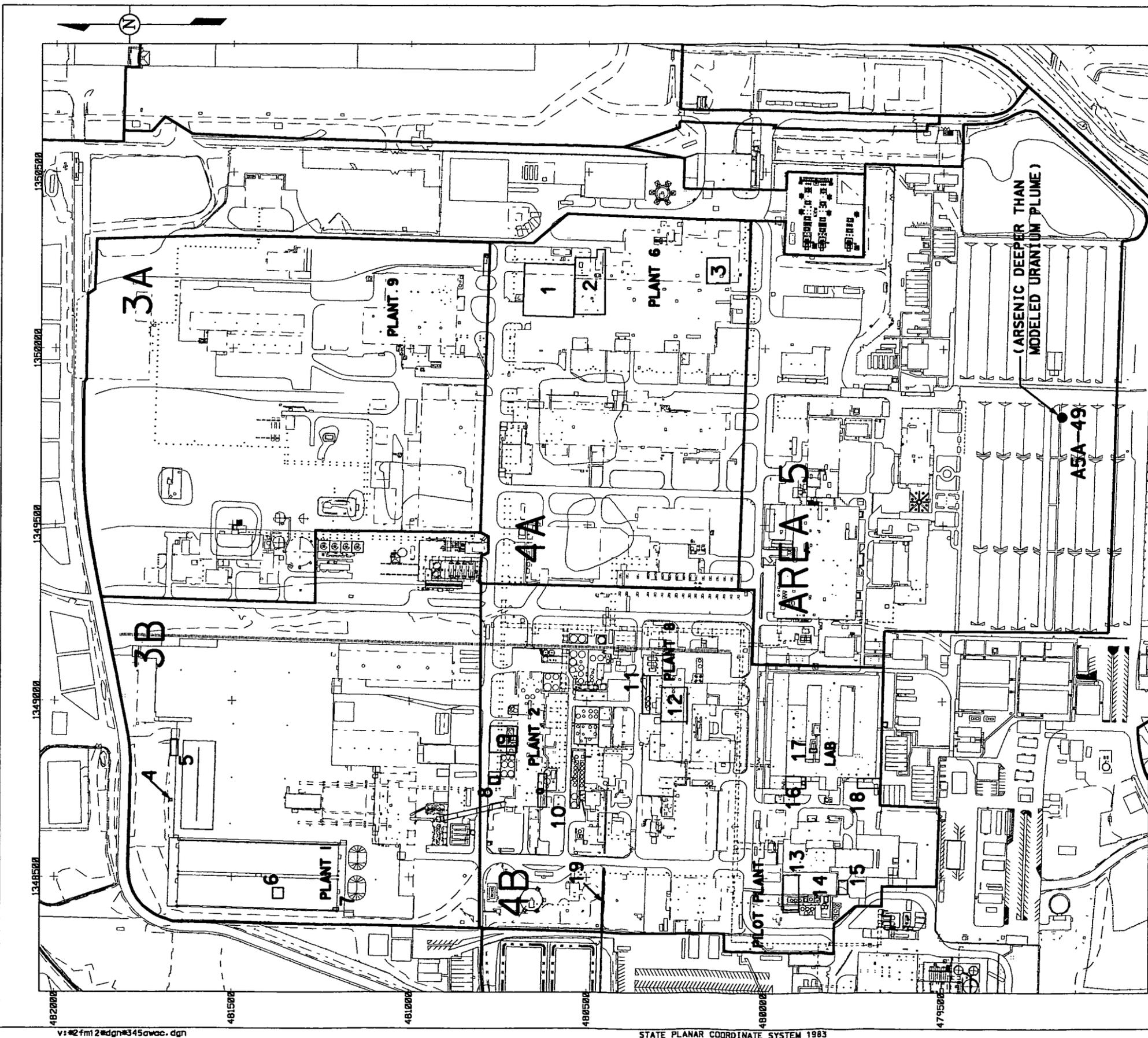
Real-time scanning for total uranium will be performed for above-FRL uranium areas per 20300-PSP-0011, Section 5.1. Physical sampling for excavation control for above-FRL arsenic contamination will be performed per 20300-PSP-0011, Section 5.2.

2.3.3.3 Locations

Sample location A5A-49 (see Figure 2-1), located in the northeast corner of the southern half of the southwest parking lot within Area 5, will be excavated separately from the uranium excavation.

2.3.4 Precertification

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



Item Remediation Area Number	WAC Area Identification	WAC COCs	Soil Volume (yd ³)
1	Plant 6 - North	n/a	n/a
2	Plant 6 - Central (Rad)	n/a	n/a
3	Plant 6 - South	n/a	n/a
4	Plant 1 Pad - Northwest	U	3
5	Plant 1 Pad - North Central	U	150
6	Plant 1 Pad - TS-4	Tc-99	8
7	Plant 1 Pad - Southwest	Tc-99	20
8	Plant 2 - Northwest	U & Tc-99	13
9	Plant 2 - Northeast	U	30
10	Plant 2 - Southwest	U	213
11	Plant 8 - North	U & Tc-99	567
12	Plant 8 - Central	Tc-99	1770
13	Pilot Pad - Northwest	Tc-99	430
14	Pilot Plant - Southwest	U	35
15	Pilot Plant - South	Tc-99	80
16	Lab Loading Dock	U & Tc-99	20
17	Lab North Courtyard	U	5
18	Lab Southwest Corner	U & Tc-99	205
19	K65 Trench	Tc-99	140

LEGEND:

— CU BOUNDARIES



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FIGURE 2-1. 3B/4B/5 AWAC LOCATIONS

3.0 INSTRUMENTATION AND TECHNIQUES

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:

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

This supplemental PSP differs from the typical supplemental PSP because predesign activities are complete. The predesign investigation of Area 3B, 4B, and 5 was completed per *Project Specific Plan for Delineating Known Exceedances of the On-Site Disposal Facility Waste Acceptance Criteria In Areas 3B/4B/5*, 20810-PSP-0004. The *Project Specific Plan for Predesign Investigation in Area 5*, 20810-PSP-0005 was also used to complete the predesign investigation of Area 5. Therefore, the required subsections for this section per 20300-PSP-0011 are not applicable and are not listed.

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 AWAC 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.

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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