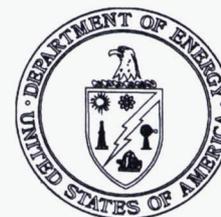




Department of Energy

Ohio Field Office
Fernald Closure Project
175 Tri-County Parkway
Springdale, Ohio 45246
(513) 648-3155



871900

JUN 1 2006

Mr. James A. Saric, Remedial Project Manager
United States Environmental Protection Agency
Region V-SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-0138-06

Mr. Thomas Schneider, Project Manager
Ohio Environmental Protection Agency
Southwest District Office
401 East Fifth Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

**TRANSMITTAL OF THE ADDENDUM TO THE CERTIFICATION DESIGN LETTER
FOR AREA 2, PHASE II - SUBAREAS 1, 2, AND 4 AND THE PROJECT SPECIFIC
PLAN FOR AREA 2, PHASE II - SUBAREAS 1, 2, AND 4 CERTIFICATION
SAMPLING**

- References:
- 1) Certification Design Letter for Area 2, Phase II - Subareas 1, 2, and 4 (Document 20450-RP-0005, Revision 0)
 - 2) Project Specific Plan for Certification Sampling of Area 2, Phase II - Subareas 1, 2, and 4 (Document 20450-PSP-0004, Revision 0)

This letter and enclosure are being submitted for your review as a draft addendum to the Certification Design Letter (CDL) for Area 2, Phase II - Subarea 1, 2, and 4 (Document 20450-RP-0005) and the Project Specific Plan (PSP) for Certification Sampling of Area 2, Phase II - Subarea 1, 2, and 4 (Document 20450-PSP-0004). The scope of this addendum is the previously certified and restored road, an area of approximately 0.51 acres that begins at the Pilot Plant Drainage Ditch to the north and terminates with the Area 2, Phase II - Subarea 3 Impacted Material Haul Road to the south running through the middle of Area 2, Phase II - Subarea 4 (see Figure 1 of this addendum).

For several weeks between April and May of 2006, equipment to and from the Silos Area drove on the certified road carrying clean material to the area south of Silo 1 in order to construct a retention basin south of the Silo 1 footprint to support Decontamination and Dismantlement of the Tank Transfer Area Facility. Once this activity had been terminated, there was a necessity to certify the potentially affected area. Real time scanning of the road produced results within acceptable parameters (see Figures 3 through 5 of this addendum) and based on these results, it has been determined that no remedial actions are required prior to beginning certification activities. The footprint will be restored immediately after the recertification. The stone placed in a depressed section of the road right before the start of construction activities will be removed.

As with other certification units (CUs) in Area 2, Phase II - Subareas 1, 2, and 4, the certification design follows the general approach outlined in Section 3.4 of the Sitewide Excavation Plan. The scope of this addendum consists of one Group 1 CU for the footprint of the haul road. This CU design is shown in Figure 2 of this addendum. The overall certification design, sampling, analysis, and validation necessary to demonstrate that soil in this area has met the final remediation levels for all area-specific constituents of concern (ASCOCs) is presented in the CDL and Certification PSP. Specific information for the CU design of the haul road is contained in this addendum and is similar in design to the certification CU previously sampled in this location. The sub-CUs and sample locations presented in Figure 2 and Attachment 1 include the entire Area 2, Phase II - Subarea 4 haul road. The Sampling and Analytical Requirements as well as the Target Analyte List are in Attachment 2 of this addendum. Total uranium, thorium-228, thorium-232, radium-226, and radium-228 (the primary site ASCOCs) will be retained in this CU (see Attachment 2).

Upon your approval of this addendum, certification sampling will begin. The results of certification activities for this area will be presented in an addendum to the Certification Report for Area 2, Phase II - Subareas 1, 2, and 4.

If you have any questions or require additional information, please contact me at (513) 648-3139.

Sincerely,



Johnny W. Reising
Director

Mr. James Saric
Mr. Tom Schneider

-3-

DOE-0138-06

Enclosure

cc w/enclosure:

J. Desormeau, OH/FCP
T. Schneider, OEPA-Dayton (three copies of enclosure)
G. Jablonowski, USEPA-V, SRF-5J
M. Cullerton, Tetra Tech
M. Shupe, HSI GeoTrans
S. Helmer, ODH
AR Coordinator, Fluor Fernald, Inc./MS6

cc w/o enclosure:

J. Chiou, Fluor Fernald, Inc./MS88
F. Johnston, Fluor Fernald, Inc./MS12
C. Murphy, Fluor Fernald, Inc./MS1

**ADDENDUM TO THE
CERTIFICATION DESIGN LETTER AND
PROJECT SPECIFIC PLAN FOR
AREA 2, PHASE II - SUBAREAS 1, 2, AND 4
CERTIFICATION SAMPLING**

**FERNALD CLOSURE PROJECT
FERNALD, OHIO**



MAY 2006

U.S. DEPARTMENT OF ENERGY

**20450-RP-0005
20450-PSP-0004
REVISION 0
ADDENDUM**

REVISION SUMMARY

<u>Revision</u>	<u>Date</u>	<u>Description of Revision</u>
0	12-16-03	Initial controlled issuance.
Addendum 1	5-30-06	Scope of this addendum is to recertify the previously certified and restored road, an 0.51-acre area from north of the Pilot Plant Drainage Ditch ending with the A2PII Impacted Material Haul Road to the south running through the middle of A2PII - Subarea 4.

ATTACHMENT 1

AREA 2, PHASE II - SUBAREA 4 HAUL ROAD CU SAMPLE LOCATIONS AND IDENTIFIERS

CU	LOCATION	DEPTH	SAMPLE ID	ANALYSIS	NORTHING	EASTING
46	46-01	0 - 0.5'	A2P2-C46-1^R	TAL A	479939.81	1346829.11
	46-02	0 - 0.5'	A2P2-C46-2^R	TAL A	479811.53	1346906.09
	46-03V	0 - 0.5'	A2P2-C46-3^V	archive	479776.27	1346930.4
	46-04D	0 - 0.5'	A2P2-C46-4^R	TAL A	479791.67	1347012.65
			A2P2-C46-4^R-D			
	46-05	0 - 0.5'	A2P2-C46-5^R	TAL A	479738.77	1346925.54
	46-06V	0 - 0.5'	A2P2-C46-6^V	archive	479723.37	1346954.71
	46-07	0 - 0.5'	A2P2-C46-7^R	TAL A	479680	1346963.62
	46-08	0 - 0.5'	A2P2-C46-8^R	TAL A	479650.01	1346961.19
	46-09	0 - 0.5'	A2P2-C46-9^R	TAL A	479632.98	1347016.3
	46-10V	0 - 0.5'	A2P2-C46-10^V	archive	479611.7	1346995.84
	46-11	0 - 0.5'	A2P2-C46-11^R	TAL A	479599.54	1347034.74
	46-12	0 - 0.5'	A2P2-C46-12^R	TAL A	479564.27	1347000.3
	46-13V	0 - 0.5'	A2P2-C46-13^V	archive	479532.25	1347037.98
	46-14	0 - 0.5'	A2P2-C46-14^R	TAL A	479478.54	1347057.83
	46-15	0 - 0.5'	A2P2-C46-15^R	TAL A	479303.23	1347124.28
46-16	0 - 0.5'	A2P2-C46-16^R	TAL A	479223.17	1347164.8	

**ATTACHMENT 2
SAMPLING AND ANALYTICAL REQUIREMENTS
AND TARGET ANALYTE LIST**

Analyte	Method	Sample Matrix	ASL	Preservation	Turnaround Time	Container ^b	Minimum Mass/ Volume
<u>Radiological</u> (TAL A)	Gamma Spec and LSC or GPC	Solid	D/E ^a	Cool To 4°C	3-Day Preliminary for Gamma Spec (2-Day In-Growth for Ra-226) 30-Day Final for Gamma Spec	Glass with Teflon-Lined Lid	500 g (1500 g) ^c
<u>Radiological</u> (TAL A)	Gamma Spec and LSC or GPC	Liquid ^d	D/E ^a	HNO ₃ To pH<2	30 Days	Polyethylene	4 Liters

Special instructions (Samplers):

- ^a Samples will be analyzed according to ASL D requirements but the minimum detection level may cause some analyses to be considered ASL E.
- ^b Sample container types may be changed at the direction of the field sampling lead, as long as the volume requirements, container compatibility requirements, and SCQ requirements are met.
- ^c At the direction of the field sampling lead, triple the specified volume must be collected for all samples at one location in the CU in order for the contract laboratory to perform the required quality control analysis. The samples shall be identified on the chain of custody/request for analysis forms as "designated for laboratory QC".
- ^d If "push tubes" are used for sampling, the off-site laboratories will be sent container blanks. If an alternative sample method is used, the field technicians will collect a rinsate.

Special instructions (SPL/Lab):

Field QC will be collected as part of this sampling effort.

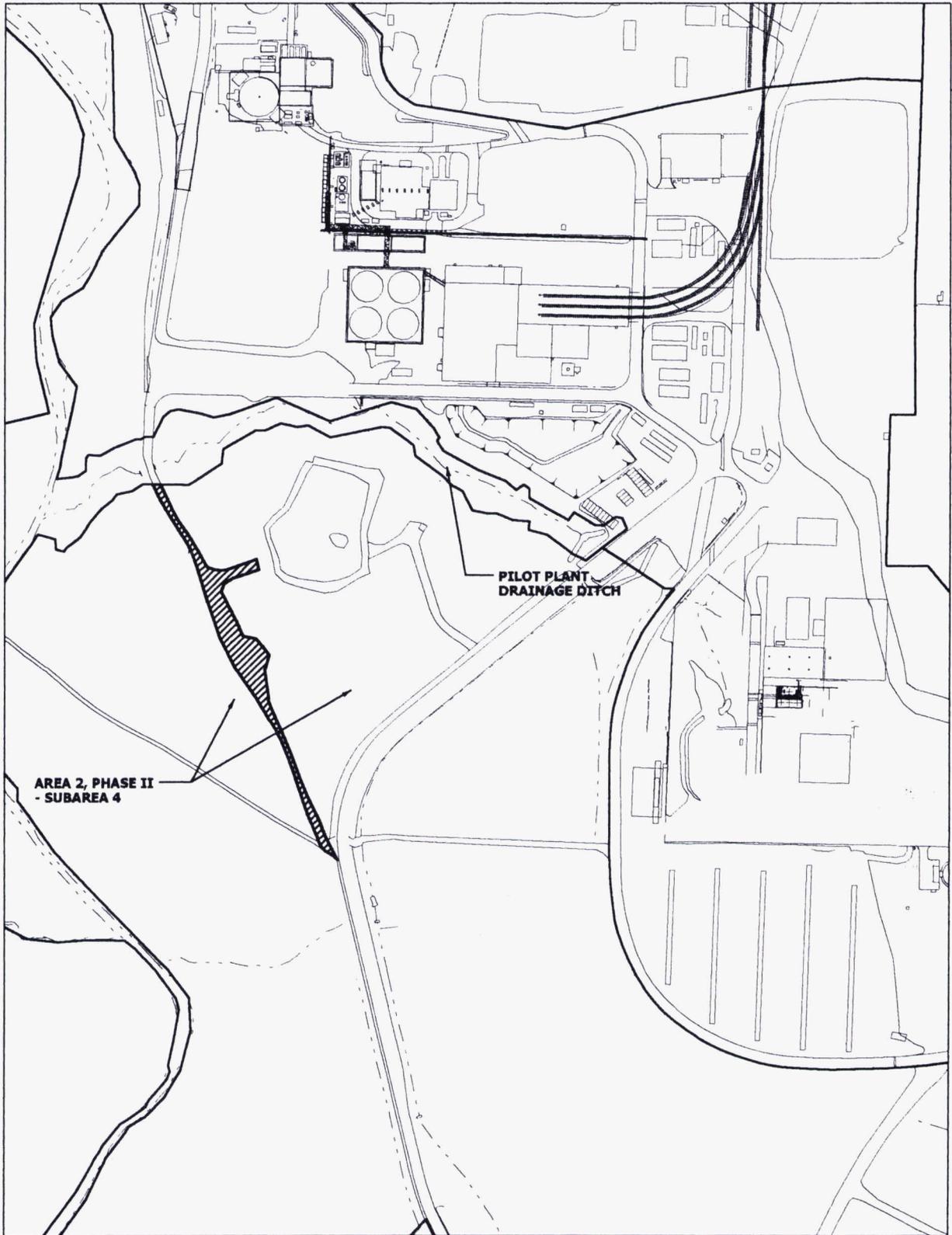
Analytical data validation is required - VSL D.

Data package requirement - COAs within 3 days. Full ASL D/E data package within 30 days.

Historical data for shipping from boring location A2P2-C14-12: Total Uranium = 124 mg/kg, Radium-226 = 2.96 pCi/g.

**TAL 20450-PSP-0004-A
(Radiological - ASL D/E)
(estimated 13 analyses)**

Analyte	FRL	MDL	MDL (water)
Total uranium	82 mg/kg	8.2 mg/kg	3000 µg/L
Radium-226	1.7 pCi/g	0.17 pCi/g	255 pCi/L
Radium-228	1.8 pCi/g	0.18 pCi/g	270 pCi/L
Thorium-228	1.7 pCi/g	0.17 pCi/g	255 pCi/L
Thorium-232	1.5 pCi/g	0.15 pCi/g	210 pCi/L



AREA 2, PHASE II
- SUBAREA 4

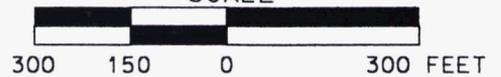
PILOT PLANT
DRAINAGE DITCH

LEGEND:



A2P2 HAUL ROAD

SCALE



DRAFT

FIGURE 1. AREA 2, PHASE II - SUBAREA 4 HAUL ROAD LOCATION MAP

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STATE PLANNING COORDINATE SYSTEM 1983

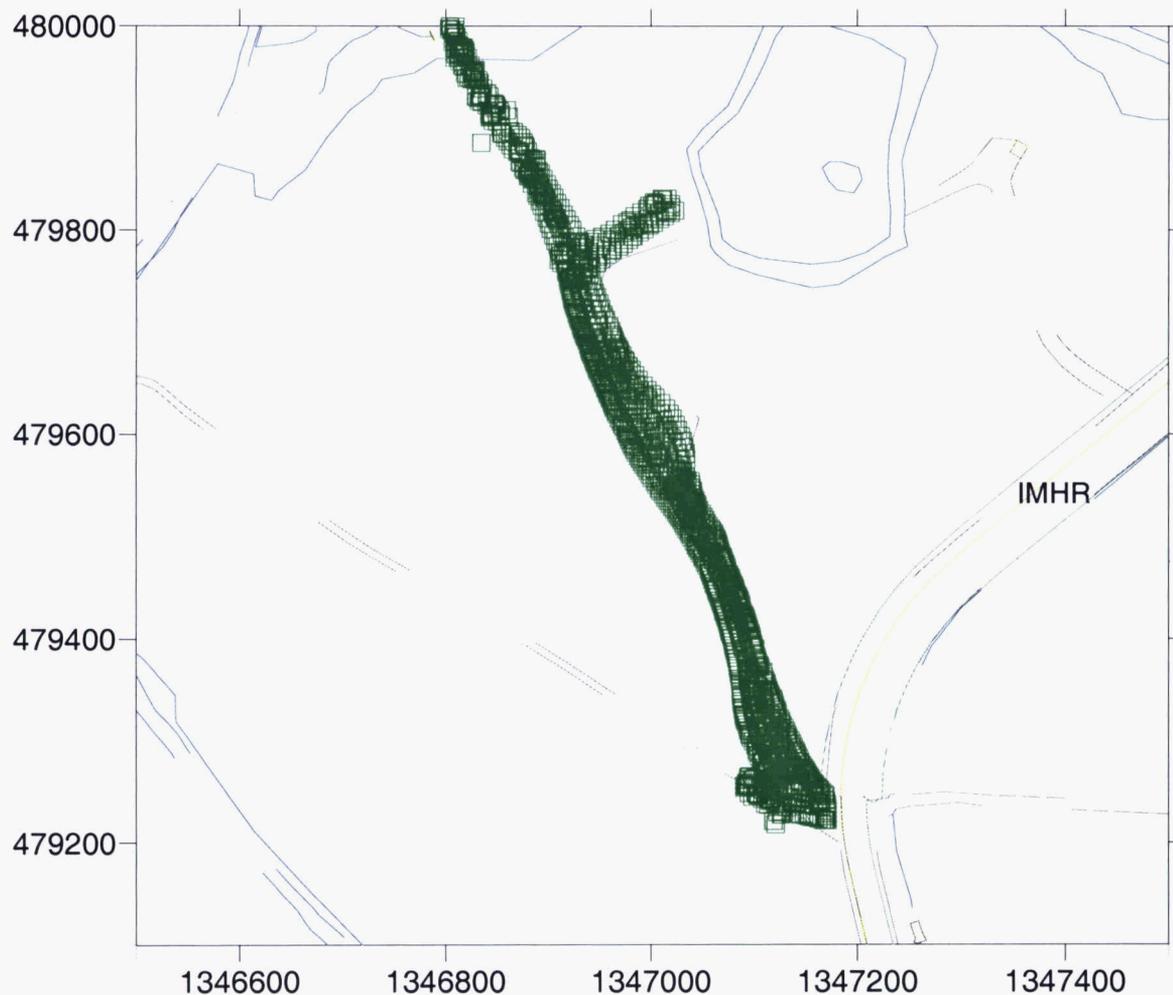
24-MAY-2006

FIGURE 3
Confirmation Scan of Clean Haul Road through Certified Area A2P2 - CU14,
South of Pilot Plant Drainage Ditch
Previous work done under A2P2 PT2&3
20450-PSP-0001
Phase 1 - Radium 226



Data Groups: RSS1_2567_05-09-2006, RSS3_1416_05-09-2006, RSS4_1090_05-09-2006

Measurement Period: 05-09-2006 thru 05-09-2006

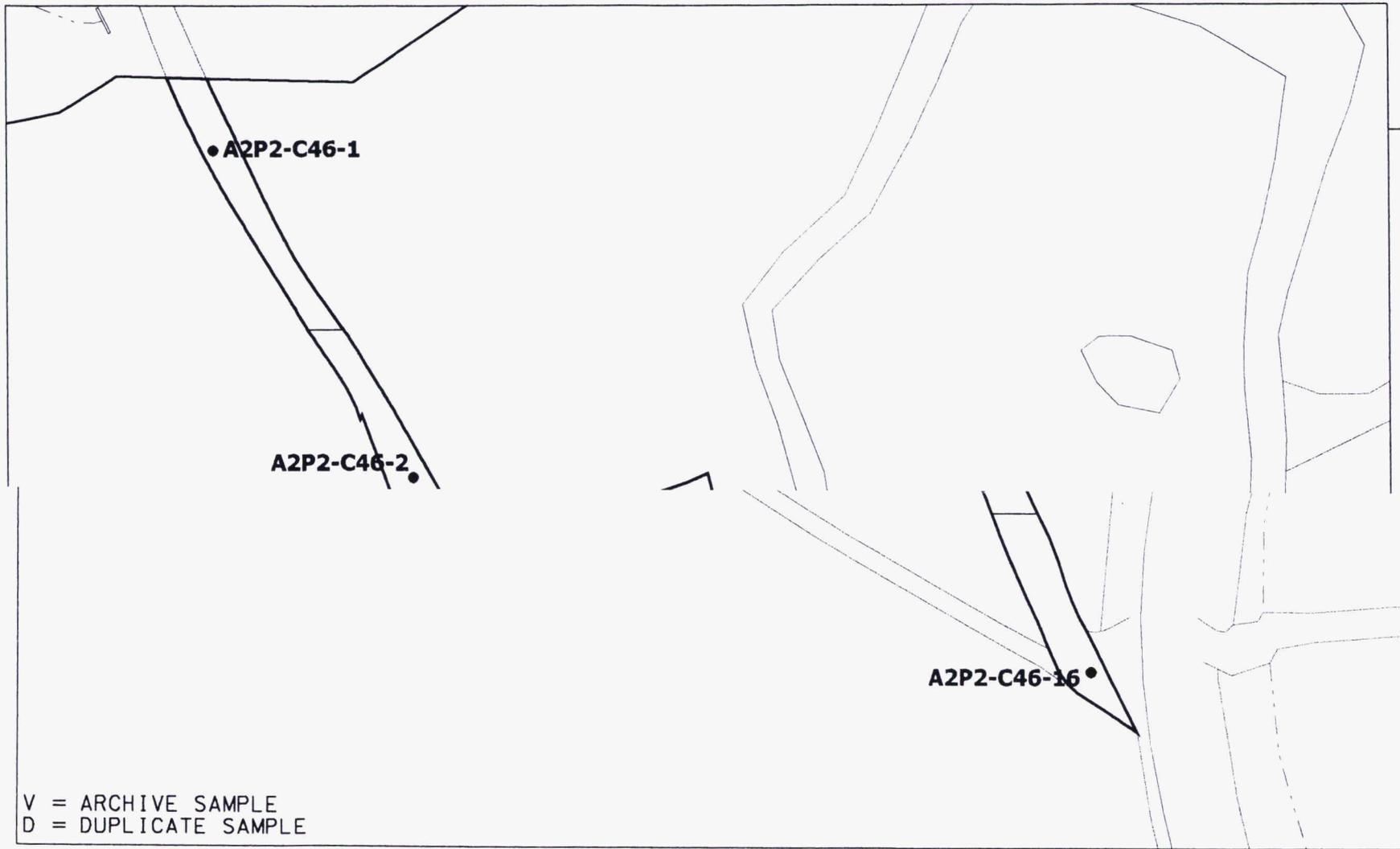


NaI Ra-226 in pCi/g	
	-9999 to 5.1
	5.1 to 9999

RTIMP DWG ID: A2P2_P1_CONF_RA.srf
Project ID: Gen Char Site Soil Remed 20300-PSP-0011
Prepared: D. Seiller 05-11-2006
Support Data: A2P2_P1_CONF.xls

V:\2006\24-MAY-2006\24-MAY-2006.dwg

24-MAY-2006

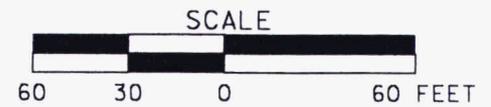


N

V = ARCHIVE SAMPLE
D = DUPLICATE SAMPLE

LEGEND:

● SAMPLE LOCATION



DRAFT

FIGURE 2. AREA 2, PHASE II - SUBAREA 4 HAUL ROAD CU, SUB-CU, AND SAMPLE LOCATION MAP

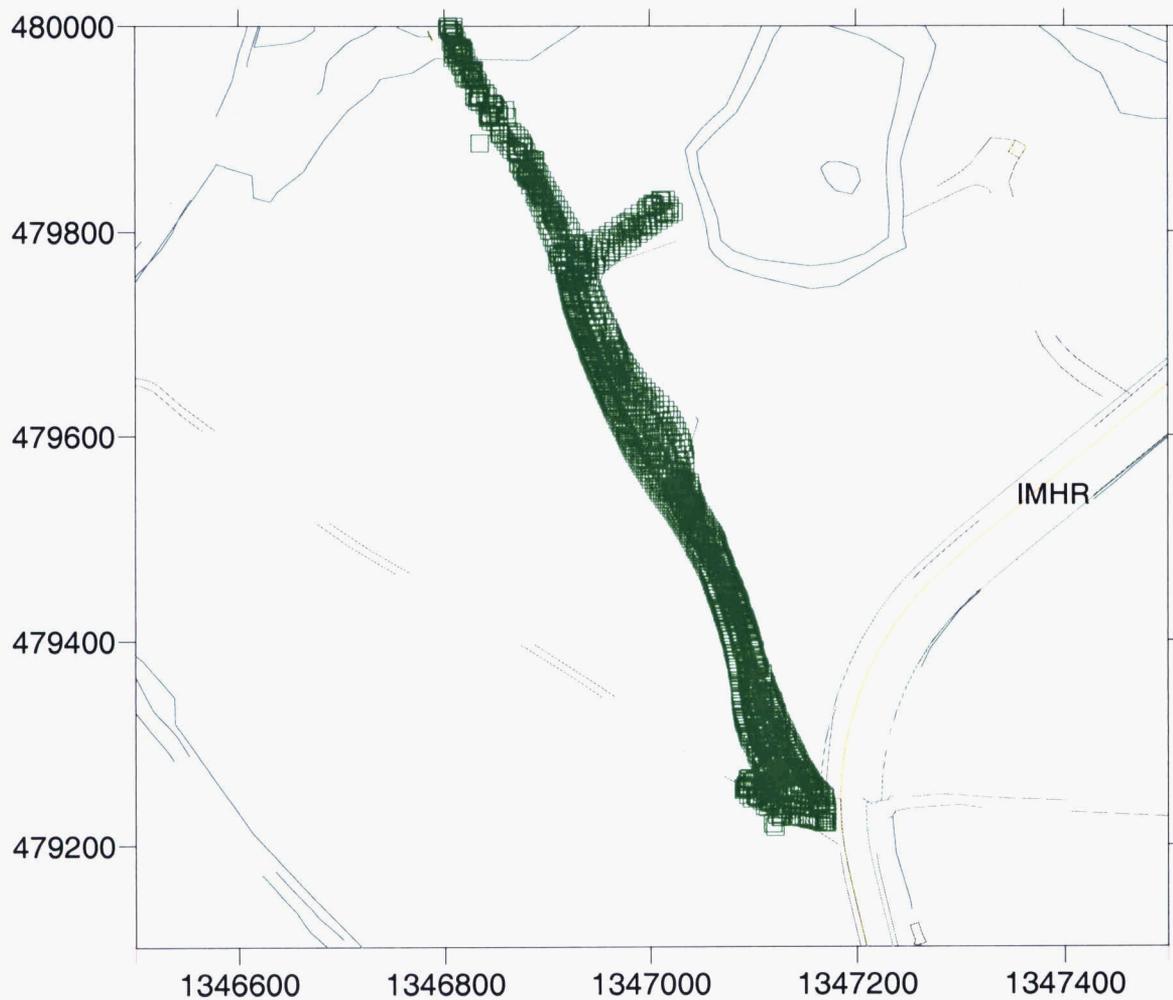
006173

FIGURE 4
Confirmation Scan of Clean Haul Road through Certified Area A2P2 - CU14,
South of Pilot Plant Drainage Ditch
Previous work done under A2P2 PT2&3
20450-PSP-0001
Phase 1 - Thorium-232



Data Groups: RSS1_2567_05-09-2006, RSS3_1416_05-09-2006, RSS4_1090_05-09-2006

Measurement Period: 05-09-2006 thru 05-09-2006



Nal	Th-232 pCi/g
	-9999 to 4.5
	4.5 to 9999

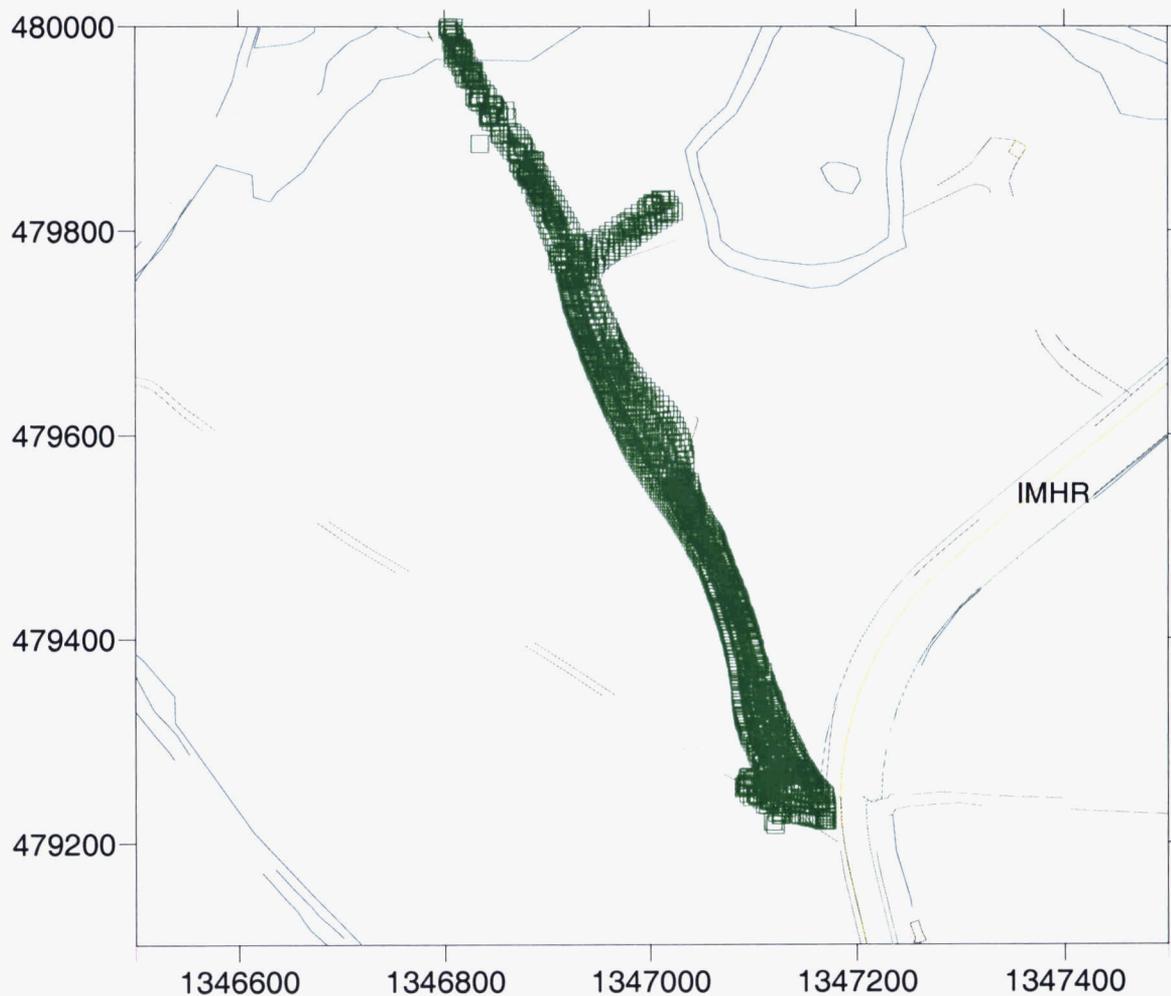
RTIMP DWG ID: A2P2_P1_CONF_Th.srf
Project ID: Gen Char Site Soil Remed 20300-PSP-0011
Prepared: R.Abitz 05-23-2006
Support Data: A2P2_P1_CONF.xls

FIGURE 5
Confirmation Scan of Clean Haul Road through Certified Area A2P2 - CU14,
South of Pilot Plant Drainage Ditch
Previous work done under A2P2 PT2&3
20450-PSP-0001
Phase 1 - Total Uranium



Data Groups: RSS1_2567_05-09-2006, RSS3_1416_05-09-2006, RSS4_1090_05-09-2006

Measurement Period: 05-09-2006 thru 05-09-2006



Nal Total Uranium in ppm	
	-9999 to 246
	246 to 9999

RTIMP DWG ID: A2P2_P1_CONF_TU.srf
Project ID: Gen Char Site Soil Remed 20300-PSP-0011
Prepared: D. Seiller 05-11-2006
Support Data: A2P2_P1_CONF.xls