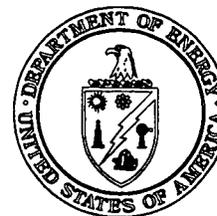




## Department of Energy

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

MAY 24 2005



5942

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-0254-05

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:

### **COMPLETION OF REMOVAL OF VISIBLE PROCESS WASTE MATERIALS FROM FOOTPRINTS OF THE WASTE PITS**

This letter is to document that all of the visible waste pit process materials have been removed from the footprints of Waste Pits 1, 2, 3, 4, 5, and 6, the Burn Pit and the Clearwell. In total, the amount of additional visible waste material and associated soil that have been excavated after turnover of the project from Shaw Environmental to Fluor Fernald, Inc., is 3,500 tons. As was required, this material was removed under the auspices of the Operable Unit (OU) 1 Excavation Plan, and was conducted after Shaw Environmental completed removal of the waste pit contents plus at least the top 6 inches of underlying clay material, consistent with OU1 Record of Decision and Amendment requirements. This additional amount of material has been transported into the Material Handling Building and is being loaded into lidded railcars as required by the OU1 Transportation Plan.

To verify that all visible waste material has been removed, in accordance with the standard Waste Acceptance Organization (WAO) procedures, the entirety of the waste pit surfaces has been walked down by WAO personnel multiple times. Also, as demonstrated by the enclosed real-time coverage figures, the entire footprint has been covered by real-time measurement systems and the areas that have exceeded the trigger levels for uranium concentration (shown in red) have been evaluated and targeted for closer visual inspections and additional excavation when necessary. All such inspections and excavations have resulted in the complete removal of visible waste material from the collective waste pit footprints. A joint walkdown was performed in the waste pit area footprint on May 16, 2005 with the U.S. Environmental Protection Agency, Ohio Environmental Protection Agency, U.S. Department of Energy, and Fluor Fernald, Inc. in

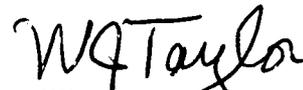
attendance. Other than some small pieces of construction debris (consistent with what is commonly observed in other soil remediation areas of the site), no visible process waste material was observed.

The impacted material that remains to be removed in the waste pit area footprint is considered impacted environmental media and therefore will be removed under the Site-wide Excavation Plan procedures developed and approved under OU5. This removal is described in the Excavation Plan for the Area 6 Waste Pits and General Area, which was submitted to the agencies on April 25, 2005. Physical sampling results from the waste pit footprints are included in the plan. Data from the three additional locations with impacted soil identified by physical sampling since the submittal of the Excavation Plan are also enclosed with this letter for your review. Under the current schedule, excavation of remaining impacted soil in this area will be completed this summer followed by the soil certification process.

With all OU1 waste material removed from the waste pits, there is no longer a requirement to maintain the Material Handling Building as a loadout facility. Therefore, this building will promptly undergo Decontamination and Dismantlement (D&D) according to the approved OU1 D&D Plan upon completion of the loadout operation by the end of May. All remaining impacted materials just like other materials excavated under OU5 that do not meet the On-Site Disposal Facility waste acceptance criteria will be sent to an off-site disposal facility via a loadout process outside of the Material Handling Building.

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

Sincerely,

  
William J. Taylor  
Director

FCP:Reising

Enclosures (2)

Mr. James A. Saric  
Mr. Tom Schneider

cc w/enclosures:

D. Pfister, OH/FCP  
J. Reising, OH/FCP  
T. Schneider, OEPA-Dayton (three copies of enclosures)  
G. Jablonowski, USEPA-V, SR-6J  
F. Bell, ATSDR  
M. Cullerton, Tetra Tech  
M. Shupe, HSI GeoTrans  
R. Vandegrift, ODH  
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosures:

K. Alkema, Fluor Fernald, Inc./MS1  
J. Chiou, Fluor Fernald, Inc./MS88  
F. Johnston, Fluor Fernald, Inc./MS99  
C. Murphy, Fluor Fernald, Inc./MS77  
ECDC, Fluor Fernald, Inc./MS52-7

**ATTACHMENT 1**  
**ADDITIONAL ABOVE-FRL RESULTS FOR WASTE PITS FOOTPRINT MATERIAL**

<b>Boring</b>	<b>Sample ID</b>	<b>Parameter</b>	<b>Result</b>	<b>Qualifier</b>	<b>Units</b>
A6WP-2S-01	A6WP-2S-01^1-R	Cesium-137	0.0494	U	pCi/g
A6WP-2S-01	A6WP-2S-01^1-R	Radium-228	0.937	-	pCi/g
A6WP-2S-01	A6WP-2S-01^1-R	Technetium-99	0.961	U	pCi/g
A6WP-2S-01	A6WP-2S-01^1-R	Thorium-228	0.951	-	pCi/g
A6WP-2S-01	A6WP-2S-01^1-R	Thorium-230	12.6	J	pCi/g
A6WP-2S-01	A6WP-2S-01^1-R	Thorium-232	0.937	-	pCi/g
A6WP-2S-01	A6WP-2S-01^1-R	Uranium, Total	107	-	mg/kg
A6WP-2S-01	A6WP-2S-01^8-R	Cesium-137	0.0238	U	pCi/g
A6WP-2S-01	A6WP-2S-01^8-R	Radium-228	0.286	-	pCi/g
A6WP-2S-01	A6WP-2S-01^8-R	Technetium-99	1.21	U	pCi/g
A6WP-2S-01	A6WP-2S-01^8-R	Thorium-228	0.341	-	pCi/g
A6WP-2S-01	A6WP-2S-01^8-R	Thorium-230	1.43	U	pCi/g
A6WP-2S-01	A6WP-2S-01^8-R	Thorium-232	0.286	-	pCi/g
A6WP-2S-01	A6WP-2S-01^8-R	Uranium, Total	1.11	U	mg/kg
A6WP-3S-04	A6WP-3S-04^1-R	Cesium-137	0	UNV	pCi/g
A6WP-3S-04	A6WP-3S-04^1-R	Radium-228	1.57	NV	pCi/g
A6WP-3S-04	A6WP-3S-04^1-R	Technetium-99	0.885	NV	pCi/g
A6WP-3S-04	A6WP-3S-04^1-R	Thorium-228	1.82	NV	pCi/g
A6WP-3S-04	A6WP-3S-04^1-R	Thorium-230	19.7	NV	pCi/g
A6WP-3S-04	A6WP-3S-04^1-R	Thorium-232	1.57	NV	pCi/g
A6WP-3S-04	A6WP-3S-04^1-R	Uranium, Total	19.7	NV	mg/kg
A6WP-3S-04	A6WP-3S-04^8-R	Cesium-137	0	UNV	pCi/g
A6WP-3S-04	A6WP-3S-04^8-R	Radium-228	0.667	NV	pCi/g
A6WP-3S-04	A6WP-3S-04^8-R	Technetium-99	-0.0867	UNV	pCi/g
A6WP-3S-04	A6WP-3S-04^8-R	Thorium-228	0.79	NV	pCi/g
A6WP-3S-04	A6WP-3S-04^8-R	Thorium-230	0.963	NV	pCi/g
A6WP-3S-04	A6WP-3S-04^8-R	Thorium-232	0.667	NV	pCi/g
A6WP-3S-04	A6WP-3S-04^8-R	Uranium, Total	4.37	NV	mg/kg
A6WP-BP-06	A6WP-BP-06^1-R	Cesium-137	-0.00608	UNV	pCi/g
A6WP-BP-06	A6WP-BP-06^1-R	Radium-228	0.95	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^1-R	Technetium-99	0.349	UNV	pCi/g
A6WP-BP-06	A6WP-BP-06^1-R	Thorium-228	0.977	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^1-R	Thorium-230	8.78	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^1-R	Thorium-232	0.95	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^1-R	Uranium, Total	60.6	NV	mg/kg
A6WP-BP-06	A6WP-BP-06^2-R	Cesium-137	-0.0533	UNV	pCi/g
A6WP-BP-06	A6WP-BP-06^2-R	Radium-228	2.04	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^2-R	Technetium-99	0.324	UNV	pCi/g
A6WP-BP-06	A6WP-BP-06^2-R	Thorium-228	0.923	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^2-R	Thorium-230	1.85	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^2-R	Thorium-232	2.04	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^2-R	Uranium, Total	7.31	NV	mg/kg
A6WP-BP-06	A6WP-BP-06^3-R	Cesium-137	-0.000743	UNV	pCi/g

**ATTACHMENT 1**  
**ADDITIONAL ABOVE-FRL RESULTS FOR WASTE PITS FOOTPRINT MATERIAL**

<b>Boring</b>	<b>Sample ID</b>	<b>Parameter</b>	<b>Result</b>	<b>Qualifier</b>	<b>Units</b>
A6WP-BP-06	A6WP-BP-06^3-R	Radium-228	0.668	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^3-R	Technetium-99	0.433	UNV	pCi/g
A6WP-BP-06	A6WP-BP-06^3-R	Thorium-228	0.601	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^3-R	Thorium-230	1.36	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^3-R	Thorium-232	0.668	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^3-R	Uranium, Total	4.76	NV	mg/kg
A6WP-BP-06	A6WP-BP-06^4-R	Cesium-137	0.00822	UNV	pCi/g
A6WP-BP-06	A6WP-BP-06^4-R	Radium-228	0.589	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^4-R	Technetium-99	0.663	UNV	pCi/g
A6WP-BP-06	A6WP-BP-06^4-R	Thorium-228	0.661	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^4-R	Thorium-230	2.44	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^4-R	Thorium-232	0.589	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^4-R	Uranium, Total	2.76	NV	mg/kg
A6WP-BP-06	A6WP-BP-06^5-R	Cesium-137	0.00224	UNV	pCi/g
A6WP-BP-06	A6WP-BP-06^5-R	Radium-228	0.598	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^5-R	Technetium-99	0.205	UNV	pCi/g
A6WP-BP-06	A6WP-BP-06^5-R	Thorium-228	0.608	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^5-R	Thorium-230	2.04	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^5-R	Thorium-232	0.598	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^5-R	Uranium, Total	1.91	NV	mg/kg
A6WP-BP-06	A6WP-BP-06^6-R	Cesium-137	-0.00165	UNV	pCi/g
A6WP-BP-06	A6WP-BP-06^6-R	Radium-228	0.683	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^6-R	Technetium-99	0.721	UNV	pCi/g
A6WP-BP-06	A6WP-BP-06^6-R	Thorium-228	0.643	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^6-R	Thorium-230	1.37	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^6-R	Thorium-232	0.683	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^6-R	Uranium, Total	2.92	NV	mg/kg
A6WP-BP-06	A6WP-BP-06^7-R	Cesium-137	-0.000779	UNV	pCi/g
A6WP-BP-06	A6WP-BP-06^7-R	Radium-228	0.589	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^7-R	Technetium-99	0.252	UNV	pCi/g
A6WP-BP-06	A6WP-BP-06^7-R	Thorium-228	0.639	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^7-R	Thorium-230	1.79	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^7-R	Thorium-232	0.589	NV	pCi/g
A6WP-BP-06	A6WP-BP-06^7-R	Uranium, Total	3.62	NV	mg/kg

# A6, Waste Pits Footprint, Initial Surface Scan Composite

Nal Batch #s:

RSS1-1184,1269,1277,1511,1520,1526,1579,1582,1592,1604,1605,1609,1625,  
1652,1655,1659,1665,1684,1702,1718,1727,1735,1738,1739,1745,1748,1751,1754

RSS2-758,841,844,852,897,908

RSS3- 619,627,640,681,717,727,739,755,762,778,781,806

EMS-303,306,309,310,318,322,345,346,349,352,355,358,364,368,378

Gator-412

Measurement Period: 07/13/04 - 05/18/2005



482000

481500

481000

1346500

Sodium Iodide  
Total U (ppm)

- -9999 to 875
- 875 to 9999

1347000

RTIMP DWG Title: A6\_WPRAP\_ALL Pits\_SF\_PU.srf

Project Name: Gen Char for Site Soil Rem

Project #: 20300-PSP-0011

Verified By: D.Seiller

Date Verified: 05/20/2005

Support Data: A6\_WPRAP\_All Pits\_SF\_Nal.xls