



Department of Energy

Ohio Field Office
Fernald Environmental Management Project
P. O. Box 538705
Cincinnati, Ohio 45253-8705
(513) 648-3155



APR 04 2003

Mr. James A. Saric, Remedial Project Manager
United States Environmental Protection Agency
Region V, SR-6J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-0317-03

Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

AREA 9, PHASE II HOT SPOT EXCAVATION PLAN

As discussed in the March 29, 2003 weekly conference call between the United States Environmental Protection Agency (USEPA), Ohio Environmental Protection Agency (OEPA), and Department of Energy (DOE) and subsequent phone calls between the OEPA and DOE, an elevated uranium concentration in surface soil above twice the Final Remediation Level (FRL) for total uranium was identified in Area 9, Phase II (A9PII) during the pre-certification sampling activities conducted in February 2003. The location of this sample is along the Fernald Closure Project fence line northwest of the former Sewage Treatment Plant. The enclosed figure is provided to show a point of reference for the area. In response to the initial physical sampling result, this "hot spot" was delineated by additional physical samples as documented in several variances to the Project Specific Plan for A9PII Pre-certification Real-Time Scan as well as the use of high purity germanium (HPGe) detectors from the Real-Time Instrumentation Measurement Program. Concentrations of uranium in the area delineated to be excavated, according to the Site-wide Excavation Plan, range between 1.2 parts per million (ppm) and 137 ppm. The estimated volume of impacted soil to be excavated is about 12.6 cubic yards.

Due to the limited access agreement with the property owner, the removal of this "hot spot" must be performed as soon as possible as verbally approved by the USEPA and OEPA. This letter is to formally document the agreed upon path forward and describe the excavation and confirmation sampling activities to be performed in A9PII to effect the removal of the identified hot spot condition for uranium. The area to be excavated is

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delineated by the locations of the bounding below-FRL samples and HPGe scans. It involves a 6-inch surface scrape of the entire area and an isolated 3.5-foot excavation in the center. The enclosed figure also depicts the planned extent of excavation. The impacted soils excavated will be transported and staged at the Fire Training Facility (FTF) excavation prior to transport to the On-Site Disposal Facility (OSDF) for placement. Staging the impacted soils first at the FTF will provide a more efficient means for their ultimate transport to the OSDF.

Upon completion of excavation, physical sampling will be performed on the floor of the excavation to confirm all soil with elevated uranium concentrations has been removed. The results of these samples will be documented in the Certification Design Letter (CDL) for A9P11. Real time scanning will also be performed on the floor of the excavation as part of the pre-certification activities, which will also be documented in the final CDL submittal.

Once all data from the confirmation samples have been reviewed and verified to demonstrate acceptable conditions, this excavation will be backfilled with clean top soil that will be purchased from an off site location. All excavation and sampling activities will be documented in the final CDL.

If you have any questions or need further information, please contact Robert Janke at (513) 648-3124.

Sincerely,



Johnny W. Reising  
Fernald Remedial Action  
Project Manager

FCP:R.J. Janke

Enclosure: As Stated

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Mr. James A. Saric  
Mr. Tom Schneider

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## cc w/enclosure:

R. Janke, OH/FCP  
A. Murphy, OH/FCP  
D. Pfister, OH/FCP  
T. Schneider, OEPA-Dayton (three copies of enclosure)  
G. Jablonowski, USEPA-V, SRF-5J  
M. Cullerton, Tetra Tech  
F. Bell, ATSDR  
M. Shupe, HSI GeoTrans  
R. Vandegrift, ODH  
AR Coordinator, Fluor Fernald, Inc./MS78

## cc w/o enclosure:

R. Greenberg, EM-31/CLOV  
N. Hallein, EM-31/CLOV  
J. Reising, OH/FCP  
D. Carr, Fluor Fernald, Inc./MS1  
R. Abitz, Fluor Fernald, Inc./MS64  
T. Beasley, Fluor Fernald, Inc./MS60  
J. Chiou, Fluor Fernald, Inc./MS64  
D. Goetz, Fluor Fernald, Inc./MS60  
T. Hagen, Fluor Fernald, Inc./MS1  
U. Kumthekar, Fluor Fernald, Inc./MS64  
F. Miller, Fluor Fernald, Inc./MS64  
R. Nichols, Fluor Fernald, Inc./MS1  
D. Powell, Fluor Fernald, Inc./MS64  
R. Reynolds, Fluor Fernald, Inc./MS64  
D. Russell, Fluor Fernald, Inc./MS64  
A. Snider, Fluor Fernald, Inc./MS64  
M. Stumbo, Fluor Fernald, Inc./MS60  
T. Poff, Fluor Fernald, Inc./MS65-2  
W. Zebick, Fluor Fernald, Inc./MS60  
ECDC, Fluor Fernald, Inc./MS52-7

A9P11

EASTERN BOUNDARY IS TILL LINE

N: 480289.00  
E: 1351832.72

EXCAVATE 6 INCH SCRAPE

N: 480280.00  
E: 1351832.60

SITE BOUNDARY

TILL LINE

-480275

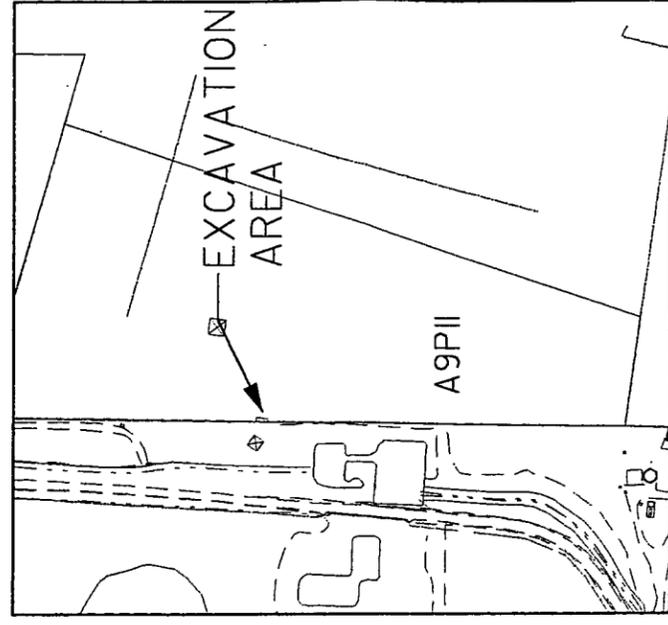
EXCAVATE TO 3.5 FEET

N: 480269.00  
E: 1351832.44

EXCAVATE 6 INCH SCRAPE

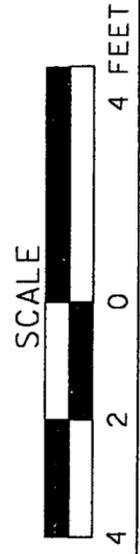
-480265

N: 480265.00  
E: 1351832.38



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-4351835  
-4351840

LEGEND:



DRAFT

A9P11 EXCAVATION PLAN