4434

Department of Energy

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

AUG 29 2002

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-0691-02

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

Dear Mr. Saric and Mr. Schneider:

VARIANCE TO REVISION 0 OF THE WASTE PITS REMEDIAL ACTION PROJECT WASTE PIT 4 CAP EXCAVATION IMPLEMENTATION PLAN

Enclosed is Revision 1 of Figures 4-3 and 5-2 and an addition to Appendix A of the Waste Pits Remedial Action Project (WPRAP) Waste Pit 4 Cap Excavation Implementation Plan. These revised figures reflect changes made to address comments made during the weekly teleconference with the Ohio Environmental Protection Agency (OEPA) and the United States Environmental Protection Agency (USEPA) on August 27, 2002. The changes are as follows:

- Adding all technetium-99 results to the total uranium results displayed on Figure 4-3 for all 30 Pit 4 cap characterization borings
- Extension of the eastern boundary of the southern <3.5 feet excavation zone to extend the zone 15 feet beyond Boring 23162
- Reduction of the excavation depth of the southern <3.5 feet excavation zone from 2.5 feet to 2.0 feet
- Creation of a central <3.5 feet excavation zone centered around Boring 23146 with an excavation depth of 3.0 feet
- Creation of a northern <3.5 feet excavation zone centered around Boring 23171with an excavation depth of 3.0 feet
- Addition of 18 technetium-99 analytical results that were inadvertently left out of Appendix A. These additional results are included on the revised Figure 4-3.

Recycled and Recyclable

These changes have been formally submitted as a variance to Document 14000-PL-0001, Revision 0, the WPRAP Waste Pit 4 Cap Excavation Implementation Plan, dated August 15, 2002. The variance is also enclosed to this letter.

If you have any questions please contact John Kappa at (513) 648-3149 or Dave Lojek at (513) 648-3127.

Sincerely,

FEMP:Kappa

for Johnny W. Reising
Fernald Remedial Action
Project Manager

Enclosures: As Stated

cc w/enclosures:
N. Hallein, EM-31/CLOV
D. Lojek, OH/FEMP
T. Schneider, OEPA-Dayton (three copies of enclosures)
G. Jablonowski, USEPA-V, SRF-5J
F. Bell, ATSDR
M. C. Wojciechowski, Tetra-Tech
M. Shupe, HSI GeoTrans
R. Vandegrift, ODH
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosures:
R. Greenberg, EM-31/CLOV
R. Janke, OH/FEMP
J. Kappa, OH/FEMP
A. Tanner, OH/FEMP
D. Carr, Fluor Fernald, Inc./MS2
M. Cherry, Fluor Fernald, Inc./MS52-1
D. Dalga, Fluor Fernald, Inc./MS52-1
T. Hagen, Fluor Fernald, Inc./MS9
R. Houchins, Fluor Fernald, Inc./MS52-1
C. Messerly, Fluor Fernald, Inc./MS52-1
T. Walsh, Fluor Fernald, Inc./MS52-3
W. Westerman, Fluor Fernald, Inc./MS52-1
ECDC, Fluor Fernald, Inc./MS52-7

VARIANCE / FIELD CHANGE NOTICE	V/F 10000-PL-0001-1
WBS NO.: 14000-PL-0001 Rev. 0	Page 1 of 1
PROJECT TITLE: Waste Pit Remedial Action Project Waste Pit 4 Cap Excavation Implementation Plan	Date 8/28/02

VARIANCE / FIELD CHANGE NOTICE (Include justification): 4434

Change:

1.) Replace Figure 4-3 with the attached Revision 1 of Figure 4-3
2.) Replace Figure 5-2 with the attached Revision 1 of Figure 5-2
3.) Add the attached list of 18 technetium-99 results to Appendix A

Justification:

Items 1 and 2:
These revised figures reflect changes made to address comments made by the regulatory agencies. These changes include:

- Adding all technetium-99 results to the total uranium results displayed on Figure 4-3 for all thirty Pit 4 cap characterization borings
- Extension of the eastern boundary of the southern <3.5 feet excavation zone to extend the zone 15 feet beyond Boring 23162
- Reduction of the excavation depth of the southern <3.5 feet excavation zone from 2.5 feet to 2.0 feet
- Creation of a central <3.5 feet excavation zone centered around Boring 23146 with an excavation depth of 3.0 feet
- Creation of a northern <3.5 feet excavation zone centered around Boring 23171with an excavation depth of 3.0 feet

Item 3:

- Addition of 18 technetium-99 analytical results that were inadvertently left out of Appendix A.

REQUESTED BY: Bill Westerman Date: 8/28/02

X IF REQD	VARIANCE/FCN APPROVAL	DATE	X IF REQD	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE Renee A. Williams	8/28/02	X	PROJECT MANAGER Mark C	8-28-02
	DATA QUALITY MANAGEMENT		X	CHARACTERIZATION LEAD William C Westerman	8/28/02
	ANALYTICAL CUSTOMER SUPPORT			SURVEY LEAD	
X	OTHER (WAO) [illegible]	8.28.02		EXCAVATION ~~SAMPLING~~ MANAGER Marshall Fenton	8-28-02

VARIANCE/FCN APPROVED [X]YES [ ]NO

REVISION REQUIRED: [ ]YES [x]NO

DISTRIBUTION

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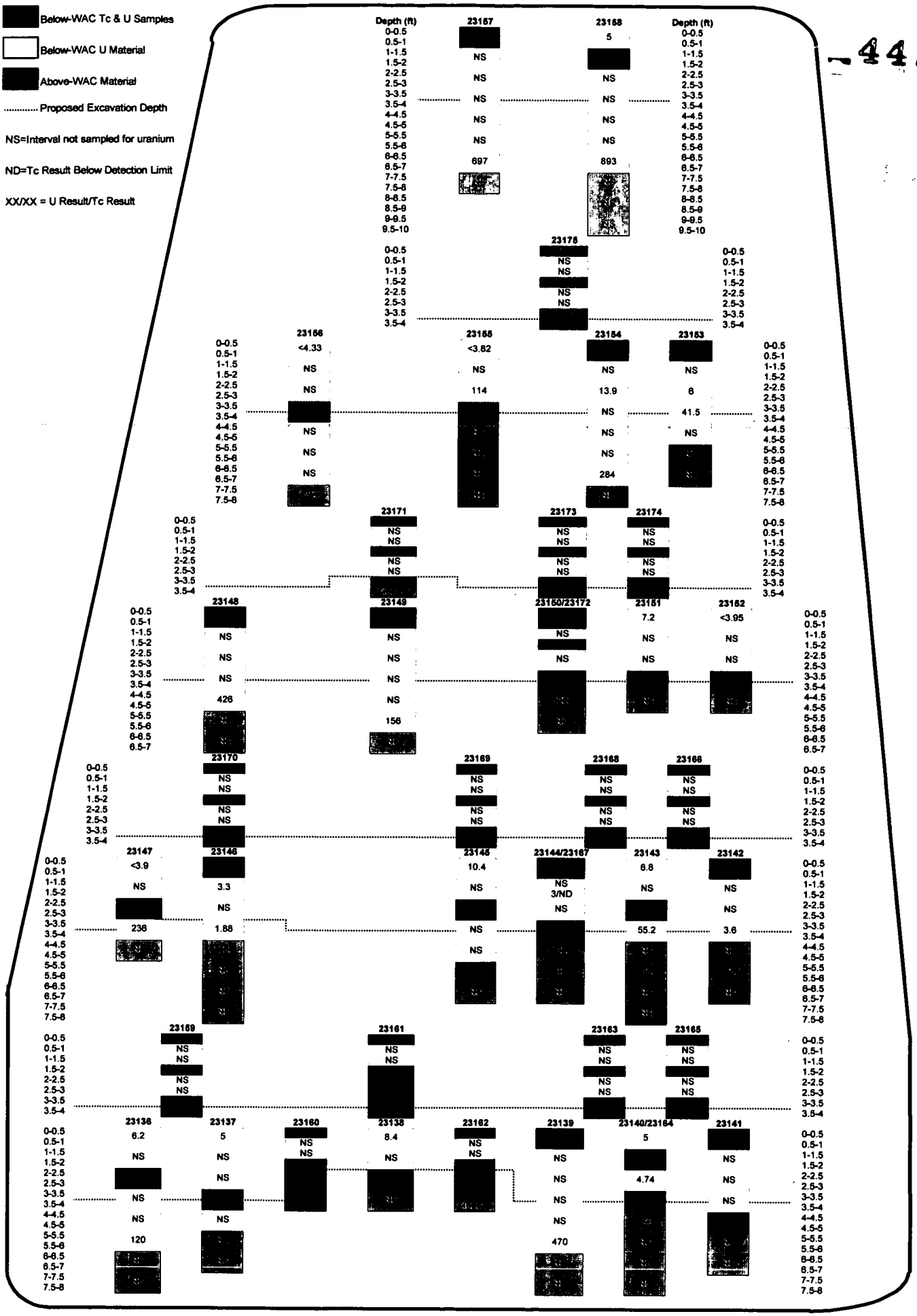
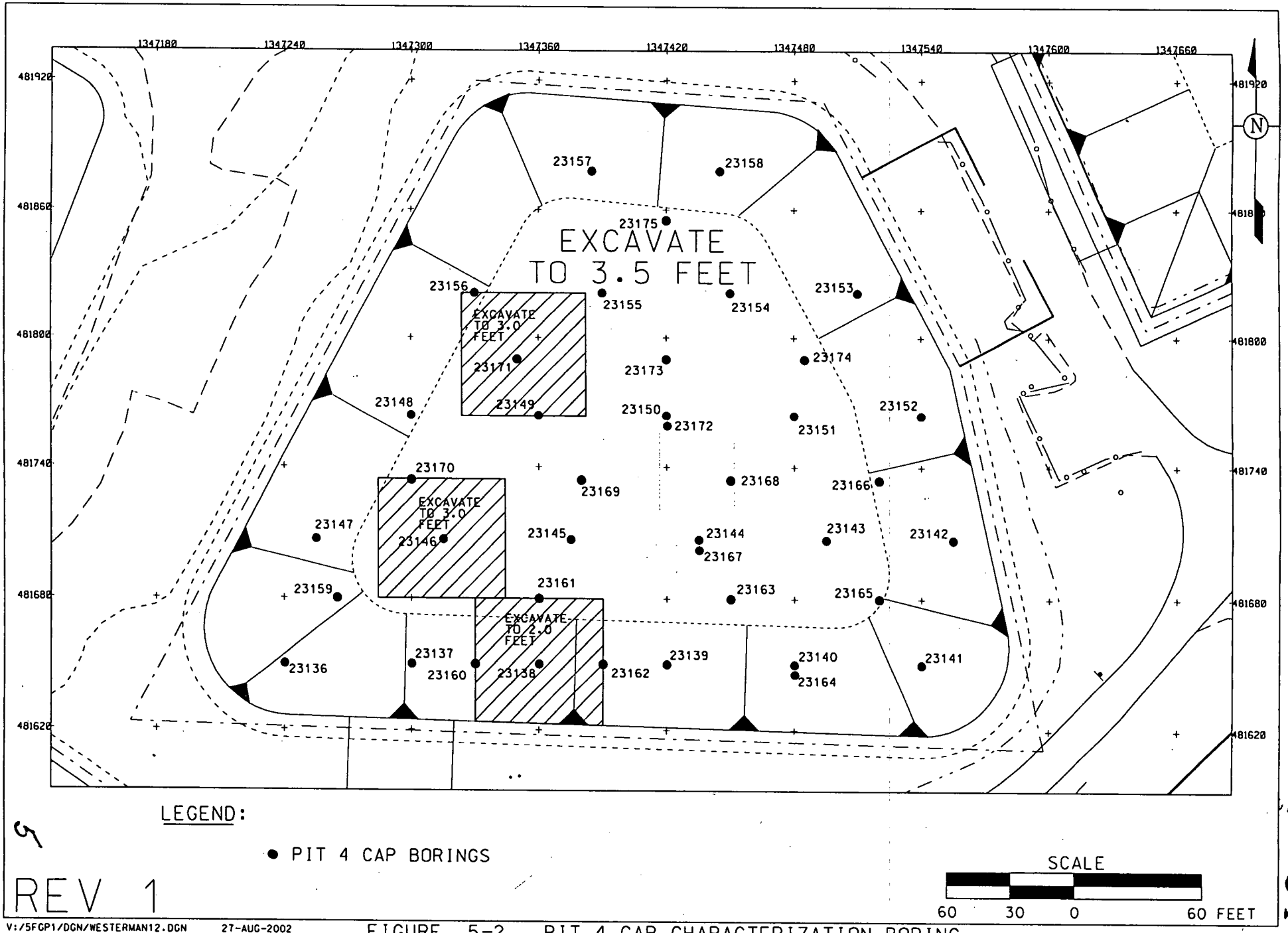


FIGURE 4-3. PIT 4 CAP TOTAL URANIUM RESULTS (IN PARTS PER MILLION) AND TECHNETIUM-99 RESULTS (IN pCi/g)
(REV 1)



REV 1

V:/5FGP1/DGN/WESTERMAN12.DGN 27-AUG-2002
STATE PLANAR COORDINATE SYSTEM 1983

FIGURE 5-2. PIT 4 CAP CHARACTERIZATION BORING LOCATIONS AND PLANNED EXCAVATION DEPTHS

(Addition 1 to) APPENDIX A

PIT 4 CAP CHARACTERIZATION DATA

BORING	SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (feet)		PARAMETER	RESULT	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	NORTHING	EASTING
			TOP	BOTTOM							
23136	23136-3-R	02/19/2002	2	3	TECHNETIUM-99	1.6	pCi/g	U	NV	481650	1347240
23138	23138-3-R	02/19/2002	2	3	TECHNETIUM-99	2	pCi/g	U	NV	481650	1347360
23139	23139-1-R	02/21/2002	0	1	TECHNETIUM-99	1.8	pCi/g	U	NV	481650	1347420
23140	23140-2-R	02/21/2002	1	2	TECHNETIUM-99	1.8	pCi/g	U	NV	481650	1347480
23141	23141-1-R	02/21/2002	0	1	TECHNETIUM-99	1.8	pCi/g	U	NV	481707	1347540
23142	23142-1-R	02/12/2002	0	1	TECHNETIUM-99	1.8	pCi/g	U	NV	481707	1347555
23143	23143-3-R	02/13/2002	2	3	TECHNETIUM-99	1.9	pCi/g	U	NV	481707	1347495
23144	23144-1-R	02/13/2002	0	1	TECHNETIUM-99	1.9	pCi/g	U	NV	481707	1347435
23145	23145-3-R	02/14/2002	2	3	TECHNETIUM-99	1.8	pCi/g	U	NV	481707	1347375
23146	23146-1-R	02/14/2002	0	1	TECHNETIUM-99	1.9	pCi/g	U	NV	481707	1347315
23148	23148-1-R	03/06/2002	0	1	TECHNETIUM-99	1.9	pCi/g	U	NV	481764	1347300
23149	23149-1-R	03/06/2002	0	1	TECHNETIUM-99	1.9	pCi/g	U	NV	481764	1347360
23150	23150-1-R	02/25/2002	0	1	TECHNETIUM-99	1.4	pCi/g	U	NV	481764	1347420
23151A	23151A-4-R	02/25/2002	3	4	TECHNETIUM-99	3.5	pCi/g	U	NV	481764	1347480
23152	23152-4-R	02/25/2002	3	4	TECHNETIUM-99	1.6	pCi/g	U	NV	481764	1347540
23153A	23153A-1-R	03/11/2002	0	1	TECHNETIUM-99	1.8	pCi/g	U	NV	481821	1347510
23155G	23155G-4-R	03/07/2002	3	4	TECHNETIUM-99	1.9	pCi/g		NV	481821	1347390
23157	23157-1-R	03/11/2002	0	1	TECHNETIUM-99	1.7	pCi/g	U	NV	481878	1347385