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Department of Energy

Ohio Field Office
Fernald Closure Project
175 Tri-County Parkway
Springdale, Ohio 45246

JUL 10 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-0164-06

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 RESPONSE TO OHIO ENVIRONMENTAL PROTECTION AGENCY COMMENT RESPONSE ON THE DRAFT CERTIFICATION DESIGN LETTER AND CERTIFICATION PROJECT SPECIFIC PLAN FOR VARIOUS AREAS OUTSIDE THE HISTORICALLY RADIOLOGICALLY CONTROLLED AREA

References:

1) Letter, J. Saric to J. Reising, "CDL and PSP for Outside Areas," dated May 22, 2006

2) Letter, T. Schneider to J. Reising, "Comments - CDL and Certification PSP for Various Areas Outside of the Historically Radiologically Controlled Area," dated May 25, 2006

3) Letter DOE-0144-06, J. Reising to J. Saric and T. Schneider, "Transmittal of Responses to Ohio Environmental Protection Agency Comments on the Draft Certification Design Letter and Certification Project Specific Plan for Various Areas Outside of the Historically Radiologically Controlled Area," dated June 5, 2006

4) Letter, T. Schneider to J. Reising, "Disapproval - RTC on the CDL and Certification PSP for Various Areas Outside of the Historically Radiologically Controlled Area," dated June 20, 2006

Enclosed for your approval is the response to Ohio Environmental Protection Agency comment response on the draft Certification Design Letter (CDL) and Certification Project Specific Plan (PSP) for Various Areas Outside of the Historically Radiologically Controlled Area. The U.S. Environmental Protection Agency has already approved this document as noted in

Reference 1 above. Upon approval, all comment responses will be incorporated into the final CDL and Certification PSP.

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

Sincerely,

Johnny Reising

Johnny W. Reising
Director

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

RESPONSE TO OHIO ENVIRONMENTAL PROTECTION AGENCY COMMENT RESPONSE ON THE DRAFT CERTIFICATION DESIGN LETTER AND CERTIFICATION PROJECT SPECIFIC PLAN FOR VARIOUS AREAS OUTSIDE OF THE HISTORICALLY RADIOLOGICALLY CONTROLLED AREA

FERNALD CLOSURE PROJECT
FERNALD, OHIO

JULY 2006

U.S. DEPARTMENT OF ENERGY

RESPONSE TO OHIO ENVIRONMENTAL PROTECTION AGENCY COMMENT RESPONSE ON THE DRAFT CERTIFICATION DESIGN LETTER AND CERTIFICATION PROJECT SPECIFIC PLAN FOR VARIOUS AREAS OUTSIDE OF THE HISTORICALLY RADIOLOGICALLY CONTROLLED AREA (20500-PSP-0014, Revision A)

COMMENT

1. Commenting Organization: Ohio EPA Commenter: OFFO
Section #: 4.0 Pg #: Figure 4-3 Line #: Code: C
Original Comment #: 3
Comment: In what appears to be CUs A7SAR-C03 and A7SAR-C04, several trailers as well as the guard shack currently occupy this area. This was not mentioned in the document. It is not acceptable to propose certifying an area, which is currently occupied by structures.

Response: The trailers and structures in question are clean and do not represent a potential source of contamination and, therefore, should not be considered a barrier to moving forward with the certification process. The document will be amended to indicate that the structures (with the exception of the communications hut) will be removed before the final certification report is approved. Because the communications hut when constructed was expected to be utilized by DOE-LM, samples were collected in the footprint prior to the communications hut being built. This information will also be added to the CDL/PSP as Appendix F.

Action: The CDL/Certification PSP will have verbiage added that indicates that the trailers and guard shack are clean and do not represent a potential source of contamination. Furthermore, information will be added indicating that the structures will be removed prior to the approval of the final certification report.

Information regarding the certification sampling of the communications hut will be added to the document as Appendix F.

Revised Comment: Ohio EPA does not find this to be an adequate response and action to this original comment. First, if the "trailers and structures in question are clean" as stated in the response, please provide the samples from beneath the footprint of these locations for verification of their clean status. Second, according to Figure 4-9, several sample locations fall within building footprints, therefore the buildings will need to be removed prior to certification, not just prior to the certification report approval as stated in the comment responses. Real time scans of the building footprints are also necessary for certification.

Revised Response: This area is far away from any historical production activities at the site and no radiological control is required. The historical data available (see Table 1 and Figure 1) for this area do not indicate contamination issues as presented in the attached analytical data. The real-time data available also do not indicate the presence of contamination (see Figures 2 through 8 for coverage). The majority of the area not scanned by real-time is covered either by gravel or asphalt. The asphalt in the area will be removed in July 2006 and real-time scanning will occur directly after completion of this activity.

The current structures in the security trailer area are 1) the communications hut, 2) two small office PODs, 3) the two security trailers, and 4) the two small surveyors' trailers. The only "permanent" structure in this area is the communications hut. In anticipation of its construction and expected usage by DOE-LM, four samples were collected (A5-CH-1

through A5-CH-4) in the area where the communications hut was expected to be built. The two samples that are physically within the existing footprint of this structure will be used for certification purposes in place of proposed sample point A7SAR-C04-11 (Figure 1). The samples currently shown on Figure 4-9 to be in the footprint of the trailers will be sampled. Also, one sample per trailer will be added (total of six samples) to the certification effort to provide additional information to support the successful certification of the area.

DOE is requesting the approval to proceed with sampling of soil in this area to partially fulfill the certification requirements at this time. The certification report can be approved when all the temporary trailers are removed from this area later.

Revised Action: Information regarding the sampling within the footprint of the communications hut will be added to the document as Appendix F.

All proposed sample points within the footprint of the trailers will be sampled as part of the certification effort - including those currently identified as archives. Additionally, one sample per trailer (six samples) will be added to the certification effort to provide more information about the footprint of each trailer and to provide information to support the successful completion of certification in this area.

TABLE 1
RI/FS AND PREDESIGN DATA SECURITY TRAILER AREA

Sample ID	Sample Date	Sample Depth (feet)		Parameter	Result	Units	Qualifier
A5A-64-1-R	15-Jul-2002	0.0	0.5	Radium-226	0.702	pCi/g	NV
A5A-64-1-R	15-Jul-2002	0.0	0.5	Radium-228	0.72	pCi/g	NV
A5A-64-1-R	15-Jul-2002	0.0	0.5	Thorium-228	0.779	pCi/g	NV
A5A-64-1-R	15-Jul-2002	0.0	0.5	Thorium-232	0.72	pCi/g	NV
A5A-64-1-R	15-Jul-2002	0.0	0.5	Uranium, Total	5.47	mg/kg	NV
A5A-67A-4-R	16-Jul-2002	1.5	2	Radium-226	0.746	pCi/g	NV
A5A-67A-4-R	16-Jul-2002	1.5	2	Radium-228	0.66	pCi/g	NV
A5A-67A-4-R	16-Jul-2002	1.5	2	Thorium-228	0.661	pCi/g	NV
A5A-67A-4-R	16-Jul-2002	1.5	2	Thorium-232	0.66	pCi/g	NV
A5A-67A-4-R	16-Jul-2002	1.5	2	Uranium, Total	1.67	mg/kg	NV
A5A-67A-6-R	16-Jul-2002	2.5	3	Radium-226	0.971	pCi/g	NV
A5A-67A-6-R	16-Jul-2002	2.5	3	Radium-228	0.85	pCi/g	NV
A5A-67A-6-R	16-Jul-2002	2.5	3	Thorium-228	0.833	pCi/g	NV
A5A-67A-6-R	16-Jul-2002	2.5	3	Thorium-232	0.85	pCi/g	NV
A5A-67A-6-R	16-Jul-2002	2.5	3	Uranium, Total	4.32	mg/kg	NV
A5A-68-4-R	16-Jul-2002	1.5	2	Radium-226	0.698	pCi/g	NV
A5A-68-4-R	16-Jul-2002	1.5	2	Radium-228	0.578	pCi/g	NV
A5A-68-4-R	16-Jul-2002	1.5	2	Thorium-228	0.582	pCi/g	NV
A5A-68-4-R	16-Jul-2002	1.5	2	Thorium-232	0.578	pCi/g	NV
A5A-68-4-R	16-Jul-2002	1.5	2	Uranium, Total	4.63	mg/kg	NV
A5A-68-6-R	16-Jul-2002	2.5	3	Radium-226	0.877	pCi/g	NV
A5A-68-6-R	16-Jul-2002	2.5	3	Radium-228	0.693	pCi/g	NV
A5A-68-6-R	16-Jul-2002	2.5	3	Thorium-228	0.695	pCi/g	NV
A5A-68-6-R	16-Jul-2002	2.5	3	Thorium-232	0.693	pCi/g	NV
A5A-68-6-R	16-Jul-2002	2.5	3	Uranium, Total	2.67	mg/kg	NV
A5A-68A-4-S	22-Aug-2002	1.5	2	Benzo(a)anthracene	73.1	ug/kg	U
A5A-68A-4-S	22-Aug-2002	1.5	2	Benzo(a)pyrene	73.1	ug/kg	U
A5A-68A-4-S	22-Aug-2002	1.5	2	Benzo(b)fluoranthene	73.1	ug/kg	U
A5A-68A-4-S	22-Aug-2002	1.5	2	Dibenzo(a,h)anthracene	73.1	ug/kg	U
A5A-68A-4-S	22-Aug-2002	1.5	2	Indeno(1,2,3-cd)pyrene	73.1	ug/kg	U
A5A-68A-6-S	22-Aug-2002	2.5	3	Benzo(a)anthracene	79.3	ug/kg	U
A5A-68A-6-S	22-Aug-2002	2.5	3	Benzo(a)pyrene	79.3	ug/kg	U
A5A-68A-6-S	22-Aug-2002	2.5	3	Benzo(b)fluoranthene	79.3	ug/kg	U
A5A-68A-6-S	22-Aug-2002	2.5	3	Dibenzo(a,h)anthracene	79.3	ug/kg	U
A5A-68A-6-S	22-Aug-2002	2.5	3	Indeno(1,2,3-cd)pyrene	79.3	ug/kg	U
A5A-72-1-R	15-Jul-2002	0.0	0.5	Radium-226	1.19	pCi/g	NV
A5A-72-1-R	15-Jul-2002	0.0	0.5	Radium-228	1.04	pCi/g	NV
A5A-72-1-R	15-Jul-2002	0.0	0.5	Thorium-228	1.07	pCi/g	NV
A5A-72-1-R	15-Jul-2002	0.0	0.5	Thorium-232	1.04	pCi/g	NV
A5A-72-1-R	15-Jul-2002	0.0	0.5	Uranium, Total	12.2	mg/kg	NV
A5A-73-1-RMP	15-Jul-2002	0.0	0.5	Aroclor-1254	15.3	ug/kg	UNV
A5A-73-1-RMP	15-Jul-2002	0.0	0.5	Aroclor-1260	15.3	ug/kg	UNV
A5A-73-1-RMP	15-Jul-2002	0.0	0.5	Arsenic	8.74	mg/kg	NV
A5A-73-1-RMP	15-Jul-2002	0.0	0.5	Beryllium	0.565	mg/kg	NV

TABLE 1
RI/FS AND PREDESIGN DATA SECURITY TRAILER AREA

Sample ID	Sample Date	Sample Depth (feet)		Parameter	Result	Units	Qualifier
A5A-73-1-RMP	15-Jul-2002	0.0	0.5	Radium-226	1.06	pCi/g	NV
A5A-73-1-RMP	15-Jul-2002	0.0	0.5	Radium-228	0.99	pCi/g	NV
A5A-73-1-RMP	15-Jul-2002	0.0	0.5	Thorium-228	0.994	pCi/g	NV
A5A-73-1-RMP	15-Jul-2002	0.0	0.5	Thorium-232	0.99	pCi/g	NV
A5A-73-1-RMP	15-Jul-2002	0.0	0.5	Uranium, Total	8.08	mg/kg	NV
A5A-74-1-R	15-Jul-2002	0.0	0.5	Radium-226	0.998	pCi/g	NV
A5A-74-1-R	15-Jul-2002	0.0	0.5	Radium-228	1.14	pCi/g	NV
A5A-74-1-R	15-Jul-2002	0.0	0.5	Thorium-228	1.17	pCi/g	NV
A5A-74-1-R	15-Jul-2002	0.0	0.5	Thorium-232	1.14	pCi/g	NV
A5A-74-1-R	15-Jul-2002	0.0	0.5	Uranium, Total	12.4	mg/kg	NV
A5A-75-1-R	15-Jul-2002	0.0	0.5	Radium-226	0.977	pCi/g	NV
A5A-75-1-R	15-Jul-2002	0.0	0.5	Radium-228	1.21	pCi/g	NV
A5A-75-1-R	15-Jul-2002	0.0	0.5	Thorium-228	1.23	pCi/g	NV
A5A-75-1-R	15-Jul-2002	0.0	0.5	Thorium-232	1.21	pCi/g	NV
A5A-75-1-R	15-Jul-2002	0.0	0.5	Uranium, Total	4.98	mg/kg	NV
A5A-76-6-R	19-Jul-2002	2.5	3.0	Radium-226	1.34	pCi/g	NV
A5A-76-4-R	19-Jul-2002	1.5	2.0	Radium-226	1.16	pCi/g	NV
A5A-76-6-R	19-Jul-2002	2.5	3.0	Radium-228	1.22	pCi/g	NV
A5A-76-4-R	19-Jul-2002	1.5	2.0	Radium-228	1.14	pCi/g	NV
A5A-76-6-R	19-Jul-2002	2.5	3.0	Thorium-228	1.21	pCi/g	NV
A5A-76-4-R	19-Jul-2002	1.5	2.0	Thorium-228	1.15	pCi/g	NV
A5A-76-6-R	19-Jul-2002	2.5	3.0	Thorium-232	1.22	pCi/g	NV
A5A-76-4-R	19-Jul-2002	1.5	2.0	Thorium-232	1.14	pCi/g	NV
A5A-76-6-R	19-Jul-2002	2.5	3.0	Uranium, Total	6.4	mg/kg	NV
A5A-76-4-R	19-Jul-2002	1.5	2.0	Uranium, Total	5.59	mg/kg	NV
A5-CH-1-5-P	26-Sep-2001	2.0	2.5	Aroclor-1254	42	ug/kg	U
A5-CH-1-9-P	26-Sep-2001	4.0	4.5	Aroclor-1254	41	ug/kg	U
A5-CH-1-1-P	26-Sep-2001	0.0	0.5	Aroclor-1254	39	ug/kg	U
A5-CH-1-5-P	26-Sep-2001	2.0	2.5	Aroclor-1260	42	ug/kg	U
A5-CH-1-9-P	26-Sep-2001	4.0	4.5	Aroclor-1260	41	ug/kg	U
A5-CH-1-1-P	26-Sep-2001	0.0	0.5	Aroclor-1260	39	ug/kg	U
A5-CH-1-9-RM	6-Sep-2001	4.0	4.5	Arsenic	9.34	mg/kg	J
A5-CH-1-5-RM	6-Sep-2001	2.0	2.5	Arsenic	6.13	mg/kg	-
A5-CH-1-1-RM	6-Sep-2001	0.0	0.5	Arsenic	5.39	mg/kg	-
A5-CH-1-5-RM	6-Sep-2001	2.0	2.5	Beryllium	0.88	mg/kg	-
A5-CH-1-1-RM	6-Sep-2001	0.0	0.5	Beryllium	0.57	mg/kg	-
A5-CH-1-9-RM	6-Sep-2001	4.0	4.5	Beryllium	0.2	mg/kg	-
A5-CH-1-5-RM	6-Sep-2001	2.0	2.5	Radium-226	1.388	pCi/g	J
A5-CH-1-1-RM	6-Sep-2001	0.0	0.5	Radium-226	1.164	pCi/g	J
A5-CH-1-9-RM	6-Sep-2001	4.0	4.5	Radium-226	1.071	pCi/g	J
A5-CH-1-5-RM	6-Sep-2001	2.0	2.5	Radium-228	1.181	pCi/g	J
A5-CH-1-1-RM	6-Sep-2001	0.0	0.5	Radium-228	0.946	pCi/g	J
A5-CH-1-9-RM	6-Sep-2001	4.0	4.5	Radium-228	0.785	pCi/g	J
A5-CH-1-5-RM	6-Sep-2001	2.0	2.5	Thorium-228	1.165	pCi/g	J

TABLE 1
RI/FS AND PREDESIGN DATA SECURITY TRAILER AREA

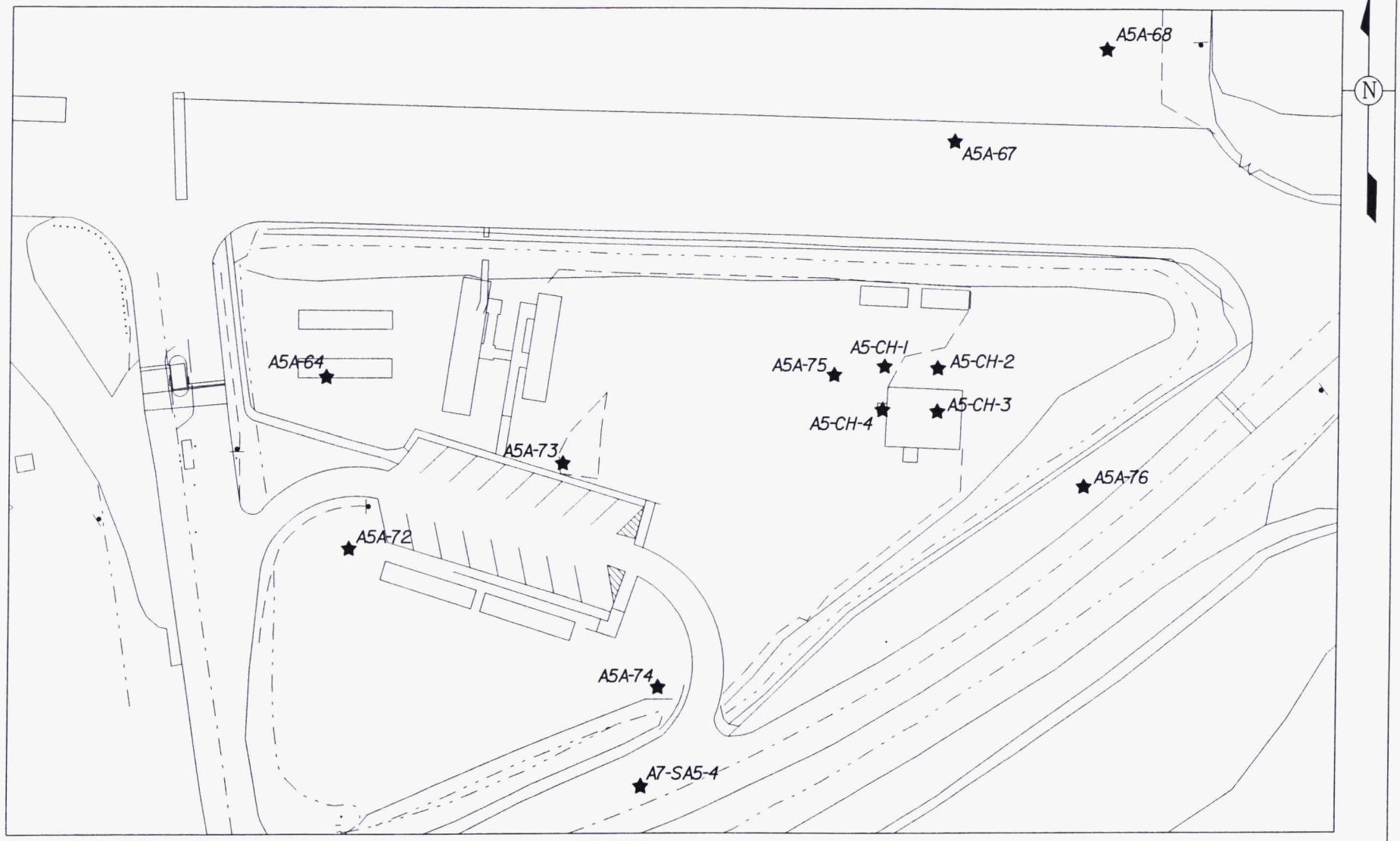
Sample ID	Sample Date	Sample Depth (feet)		Parameter	Result	Units	Qualifier
A5-CH-1-1-RM	6-Sep-2001	0.0	0.5	Thorium-228	0.928	pCi/g	J
A5-CH-1-9-RM	6-Sep-2001	4.0	4.5	Thorium-228	0.785	pCi/g	J
A5-CH-1-5-RM	6-Sep-2001	2.0	2.5	Thorium-232	1.181	pCi/g	J
A5-CH-1-1-RM	6-Sep-2001	0.0	0.5	Thorium-232	0.946	pCi/g	J
A5-CH-1-9-RM	6-Sep-2001	4.0	4.5	Thorium-232	0.785	pCi/g	J
A5-CH-1-1-RM	6-Sep-2001	0.0	0.5	Uranium, Total	5.438	mg/kg	J
A5-CH-1-5-RM	6-Sep-2001	2.0	2.5	Uranium, Total	4.819	mg/kg	J
A5-CH-1-9-RM	6-Sep-2001	4.0	4.5	Uranium, Total	3.177	mg/kg	J
A5-CH-2-1-P	26-Sep-2001	0.0	0.5	Aroclor-1254	41	ug/kg	U
A5-CH-2-9-P	26-Sep-2001	4.0	4.5	Aroclor-1254	41	ug/kg	U
A5-CH-2-5-P	26-Sep-2001	2.0	2.5	Aroclor-1254	39	ug/kg	U
A5-CH-2-1-P	26-Sep-2001	0.0	0.5	Aroclor-1260	41	ug/kg	U
A5-CH-2-9-P	26-Sep-2001	4.0	4.5	Aroclor-1260	41	ug/kg	U
A5-CH-2-5-P	26-Sep-2001	2.0	2.5	Aroclor-1260	39	ug/kg	U
A5-CH-2-9-RM	6-Sep-2001	4.0	4.5	Arsenic	9.73	mg/kg	J
A5-CH-2-1-RM	6-Sep-2001	0.0	0.5	Arsenic	6.19	mg/kg	-
A5-CH-2-5-RM	6-Sep-2001	2.0	2.5	Arsenic	5.19	mg/kg	-
A5-CH-2-5-RM	6-Sep-2001	2.0	2.5	Beryllium	0.57	mg/kg	-
A5-CH-2-9-RM	6-Sep-2001	4.0	4.5	Beryllium	0.55	mg/kg	-
A5-CH-2-1-RM	6-Sep-2001	0.0	0.5	Beryllium	0.46	mg/kg	-
A5-CH-2-5-RM	6-Sep-2001	2.0	2.5	Radium-226	1.277	pCi/g	J
A5-CH-2-1-RM	6-Sep-2001	0.0	0.5	Radium-226	1.137	pCi/g	J
A5-CH-2-9-RM	6-Sep-2001	4.0	4.5	Radium-226	0.845	pCi/g	J
A5-CH-2-5-RM	6-Sep-2001	2.0	2.5	Radium-228	1.067	pCi/g	J
A5-CH-2-1-RM	6-Sep-2001	0.0	0.5	Radium-228	0.901	pCi/g	J
A5-CH-2-9-RM	6-Sep-2001	4.0	4.5	Radium-228	0.622	pCi/g	J
A5-CH-2-5-RM	6-Sep-2001	2.0	2.5	Thorium-228	1.023	pCi/g	J
A5-CH-2-1-RM	6-Sep-2001	0.0	0.5	Thorium-228	0.891	pCi/g	J
A5-CH-2-9-RM	6-Sep-2001	4.0	4.5	Thorium-228	0.599	pCi/g	J
A5-CH-2-5-RM	6-Sep-2001	2.0	2.5	Thorium-232	1.067	pCi/g	J
A5-CH-2-1-RM	6-Sep-2001	0.0	0.5	Thorium-232	0.901	pCi/g	J
A5-CH-2-9-RM	6-Sep-2001	4.0	4.5	Thorium-232	0.622	pCi/g	J
A5-CH-2-1-RM	6-Sep-2001	0.0	0.5	Uranium, Total	5.206	mg/kg	J
A5-CH-2-5-RM	6-Sep-2001	2.0	2.5	Uranium, Total	3.085	mg/kg	J
A5-CH-2-9-RM	6-Sep-2001	4.0	4.5	Uranium, Total	2.82	mg/kg	UJ
A5-CH-3-9-P	26-Sep-2001	4.0	4.5	Aroclor-1254	42	ug/kg	U
A5-CH-3-5-P	26-Sep-2001	2.0	2.5	Aroclor-1254	41	ug/kg	U
A5-CH-3-1-P	26-Sep-2001	0.0	0.5	Aroclor-1254	39	ug/kg	U
A5-CH-3-9-P	26-Sep-2001	4.0	4.5	Aroclor-1260	42	ug/kg	U
A5-CH-3-5-P	26-Sep-2001	2.0	2.5	Aroclor-1260	41	ug/kg	U
A5-CH-3-1-P	26-Sep-2001	0.0	0.5	Aroclor-1260	39	ug/kg	U
A5-CH-3-9-RM	6-Sep-2001	4.0	4.5	Arsenic	12.3	mg/kg	-
A5-CH-3-5-RM	6-Sep-2001	2.0	2.5	Arsenic	8.65	mg/kg	J
A5-CH-3-1-RM	6-Sep-2001	0.0	0.5	Arsenic	5.69	mg/kg	-

TABLE 1
RI/FS AND PREDESIGN DATA SECURITY TRAILER AREA

Sample ID	Sample Date	Sample Depth (feet)		Parameter	Result	Units	Qualifier
A5-CH-3-5-RM	6-Sep-2001	2.0	2.5	Beryllium	0.9	mg/kg	-
A5-CH-3-9-RM	6-Sep-2001	4.0	4.5	Beryllium	0.49	mg/kg	-
A5-CH-3-1-RM	6-Sep-2001	0.0	0.5	Beryllium	0.4	mg/kg	-
A5-CH-3-5-RM	6-Sep-2001	2.0	2.5	Radium-226	1.42	pCi/g	J
A5-CH-3-9-RM	6-Sep-2001	4.0	4.5	Radium-226	1.35	pCi/g	J
A5-CH-3-1-RM	6-Sep-2001	0.0	0.5	Radium-226	1.103	pCi/g	J
A5-CH-3-5-RM	6-Sep-2001	2.0	2.5	Radium-228	1.124	pCi/g	J
A5-CH-3-9-RM	6-Sep-2001	4.0	4.5	Radium-228	1.034	pCi/g	J
A5-CH-3-1-RM	6-Sep-2001	0.0	0.5	Radium-228	0.903	pCi/g	J
A5-CH-3-5-RM	6-Sep-2001	2.0	2.5	Thorium-228	1.111	pCi/g	J
A5-CH-3-9-RM	6-Sep-2001	4.0	4.5	Thorium-228	1.002	pCi/g	J
A5-CH-3-1-RM	6-Sep-2001	0.0	0.5	Thorium-228	0.869	pCi/g	J
A5-CH-3-5-RM	6-Sep-2001	2.0	2.5	Thorium-232	1.124	pCi/g	J
A5-CH-3-9-RM	6-Sep-2001	4.0	4.5	Thorium-232	1.034	pCi/g	J
A5-CH-3-1-RM	6-Sep-2001	0.0	0.5	Thorium-232	0.903	pCi/g	J
A5-CH-3-1-RM	6-Sep-2001	0.0	0.5	Uranium, Total	9.772	mg/kg	J
A5-CH-3-9-RM	6-Sep-2001	4.0	4.5	Uranium, Total	3.289	mg/kg	UJ
A5-CH-3-5-RM	6-Sep-2001	2.0	2.5	Uranium, Total	2.974	mg/kg	J
A5-CH-4-9-P	26-Sep-2001	4.0	4.5	Aroclor-1254	42	ug/kg	U
A5-CH-4-5-P	26-Sep-2001	2.0	2.5	Aroclor-1254	41	ug/kg	U
A5-CH-4-1-P	26-Sep-2001	0.0	0.5	Aroclor-1254	40	ug/kg	U
A5-CH-4-9-P	26-Sep-2001	4.0	4.5	Aroclor-1260	42	ug/kg	U
A5-CH-4-5-P	26-Sep-2001	2.0	2.5	Aroclor-1260	41	ug/kg	U
A5-CH-4-1-P	26-Sep-2001	0.0	0.5	Aroclor-1260	40	ug/kg	U
A5-CH-4-9-RM	6-Sep-2001	4.0	4.5	Arsenic	10.7	mg/kg	J
A5-CH-4-5-RM	6-Sep-2001	2.0	2.5	Arsenic	10.1	mg/kg	J
A5-CH-4-1-RM	6-Sep-2001	0.0	0.5	Arsenic	6.05	mg/kg	J
A5-CH-4-5-RM	6-Sep-2001	2.0	2.5	Beryllium	0.91	mg/kg	-
A5-CH-4-1-RM	6-Sep-2001	0.0	0.5	Beryllium	0.58	mg/kg	-
A5-CH-4-9-RM	6-Sep-2001	4.0	4.5	Beryllium	0.57	mg/kg	-
A5-CH-4-5-RM	6-Sep-2001	2.0	2.5	Radium-226	1.436	pCi/g	J
A5-CH-4-1-RM	6-Sep-2001	0.0	0.5	Radium-226	1.133	pCi/g	J
A5-CH-4-9-RM	6-Sep-2001	4.0	4.5	Radium-226	1.121	pCi/g	J
A5-CH-4-5-RM	6-Sep-2001	2.0	2.5	Radium-228	1.288	pCi/g	J
A5-CH-4-1-RM	6-Sep-2001	0.0	0.5	Radium-228	1.054	pCi/g	J
A5-CH-4-9-RM	6-Sep-2001	4.0	4.5	Radium-228	0.897	pCi/g	J
A5-CH-4-5-RM	6-Sep-2001	2.0	2.5	Thorium-228	1.275	pCi/g	J
A5-CH-4-1-RM	6-Sep-2001	0.0	0.5	Thorium-228	1.045	pCi/g	J
A5-CH-4-9-RM	6-Sep-2001	4.0	4.5	Thorium-228	0.862	pCi/g	J
A5-CH-4-5-RM	6-Sep-2001	2.0	2.5	Thorium-232	1.288	pCi/g	J
A5-CH-4-1-RM	6-Sep-2001	0.0	0.5	Thorium-232	1.054	pCi/g	J
A5-CH-4-9-RM	6-Sep-2001	4.0	4.5	Thorium-232	0.897	pCi/g	J
A5-CH-4-1-RM	6-Sep-2001	0.0	0.5	Uranium, Total	13.512	mg/kg	J
A5-CH-4-9-RM	6-Sep-2001	4.0	4.5	Uranium, Total	3.26	mg/kg	UJ

TABLE 1
RI/FS AND PREDESIGN DATA SECURITY TRAILER AREA

Sample ID	Sample Date	Sample Depth (feet)		Parameter	Result	Units	Qualifier
A5-CH-4-5-RM	6-Sep-2001	2.0	2.5	Uranium, Total	2.499	mg/kg	UJ
A7-SA5-4^1-RMP	25-Jan-2005	0.0	0.5	Aroclor-1254	0.0038	ug/kg	U
A7-SA5-4^3-RMP	25-Jan-2005	1.0	1.5	Aroclor-1254	0.0038	ug/kg	U
A7-SA5-4^6-RMP	25-Jan-2005	2.5	3.0	Aroclor-1254	0.0013	ug/kg	J
A7-SA5-4^6-RMP	25-Jan-2005	2.5	3.0	Aroclor-1260	0.0043	ug/kg	U
A7-SA5-4^1-RMP	25-Jan-2005	0.0	0.5	Aroclor-1260	0.0038	ug/kg	U
A7-SA5-4^3-RMP	25-Jan-2005	1.0	1.5	Aroclor-1260	0.0038	ug/kg	U
A7-SA5-4^3-RMP	25-Jan-2005	1.0	1.5	Arsenic	9.6	mg/kg	J
A7-SA5-4^1-RMP	25-Jan-2005	0.0	0.5	Arsenic	8.56	mg/kg	J
A7-SA5-4^6-RMP	25-Jan-2005	2.5	3.0	Arsenic	8.38	mg/kg	J
A7-SA5-4^3-RMP	25-Jan-2005	1.0	1.5	Beryllium	0.915	mg/kg	-
A7-SA5-4^1-RMP	25-Jan-2005	0.0	0.5	Beryllium	0.874	mg/kg	-
A7-SA5-4^6-RMP	25-Jan-2005	2.5	3.0	Beryllium	0.602	mg/kg	-
A7-SA5-4^6-RMP	25-Jan-2005	2.5	3.0	Dieldrin	0.00174	ug/kg	U
A7-SA5-4^3-RMP	25-Jan-2005	1.0	1.5	Dieldrin	0.00152	ug/kg	U
A7-SA5-4^3-RMP	25-Jan-2005	1.0	1.5	Radium-228	0.905	pCi/g	-
A7-SA5-4^1-RMP	25-Jan-2005	0.0	0.5	Radium-228	0.869	pCi/g	-
A7-SA5-4^6-RMP	25-Jan-2005	2.5	3.0	Radium-228	0.786	pCi/g	-
A7-SA5-4^3-RMP	25-Jan-2005	1.0	1.5	Thorium-228	1.15	pCi/g	-
A7-SA5-4^1-RMP	25-Jan-2005	0.0	0.5	Thorium-228	0.965	pCi/g	-
A7-SA5-4^6-RMP	25-Jan-2005	2.5	3.0	Thorium-228	0.805	pCi/g	-
A7-SA5-4^3-RMP	25-Jan-2005	1.0	1.5	Thorium-232	0.905	pCi/g	-
A7-SA5-4^1-RMP	25-Jan-2005	0.0	0.5	Thorium-232	0.869	pCi/g	-
A7-SA5-4^6-RMP	25-Jan-2005	2.5	3.0	Thorium-232	0.786	pCi/g	-
A7-SA5-4^3-RMP	25-Jan-2005	1.0	1.5	Uranium, Total	4.58	mg/kg	U
A7-SA5-4^6-RMP	25-Jan-2005	2.5	3.0	Uranium, Total	4.44	mg/kg	U
A7-SA5-4^1-RMP	25-Jan-2005	0.0	0.5	Uranium, Total	4.19	mg/kg	U



LEGEND:

★ PREDESIGN SAMPLE

SCALE

60 30 0 60 FEET

DRAFT

$$FILE$$
STATE PLANAR COORDINATE SYSTEM 1983

FIGURE 1. SECURITY TRAILER AREA PREDESIGN SAMPLING LOCATIONS

$$DATE$$

006185

006185

Figure 2: Area 7 Security Trailer Complex Area, Phase 1 Total Uranium

NaI Data: RSS1_918_2/19/04, 919_2/19/04, 931_2/27/04, 937_3/8/04, 1246_8/14/04, 1672_3/3/05, 2359_12/29/05, 2363_12/30/05, 2385_1/23/06; RSS2_829_4/1/05; 832_4/4/05; RSS3_1269_2/25/06; RSS4_741_12/27/05, 743_12/27/05, 748_12/28/05, 754_1/23/06, 860_2/17/06
HPGe Data: 30687_2/20/04, 2/26/04; 40227_2/20/04
Measurement Date: 02/19/2004 - 02/25/2006

High Leachability boundary
CDL Boundary
Sub Area Boundary

NaI Total U (ppm)	HPGe @ 100cm Total U (ppm)
-9999 to 246	**0 to 246**
246 to 9999	**246 to 9999**

RTIMP DWG ID: A7_Southeast_P1_TU_Fig2.srf
Project ID: Gen. Char. for Site. Soil Rem 20300-PSP-0011
Prepared by: M. Frank; 07-05-06
Support Data: A1P4_PT4_P1_NaI_v2.xls, A7K_SF_P1_NaI_v3.xls; A7_SAR_P1_NaI_v3.xls; A7_SF_NaI_v3.xls; A7_SF_NaI_v2.xls A7_P1_HPGe_v3.xls; A7_SF_HPGe_v2.xls

Figure 3: Area 7 Security Trailer Complex Area, Phase 1 Radium-226

NaI Data: RSS1_918_2/19/04, 919_2/19/04, 931_2/27/04, 937_3/8/04, 1246_8/14/04, 1672_3/3/05, 2359_12/29/05, 2363_12/30/05, 2385_1/23/06; RSS2_829_4/1/05; 832_4/4/05; RSS3_1269_2/25/06; RSS4_741_12/27/05, 743_12/27/05, 748_12/28/05, 754_1/23/06, 860_2/17/06
HPGe Data: 30687_2/20/04, 2/26/04; 40227_2/20/04
Measurement Date: 02/19/2004 - 02/25/2006

High Leachability boundary
CDL Boundary
Sub Area Boundary

NaI Ra-226 (pCi/g)	HPGe @ 100cm Ra-226 (pCi/g)
-9999 to 5.1	0 to 5.1
5.1 to 9999	5.1 to 9999

RTIMP DWG ID: A7_Southeast_P1_RA_Fig3.srf
Project ID: Gen. Char. for Site. Soil Rem 20300-PSP-0011
Prepared by: M. Frank; 07-05-06
Support Data: A1P4_PT4_P1_NaI_v2.xls, A7K_SF_P1_NaI_v3.xls; A7_SAR_P1_NaI_v3.xls; A7_SF_NaI_v3.xls; A7_SF_NaI_v2.xls A7_P1_HPGe_v3.xls; A7_SF_HPGe_v2.xls

Figure 4: Area 7 Security Trailer Complex Area, Phase 1 Thorium-232

NaI Data: RSS1_918_2/19/04, 919_2/19/04, 931_2/27/04, 937_3/8/04, 1246_8/14/04, 1672_3/3/05, 2359_12/29/05, 2363_12/30/05, 2385_1/23/06; RSS2_829_4/1/05; 832_4/4/05; RSS3_1269_2/25/06; RSS4_741_12/27/05, 743_12/27/05, 748_12/28/05, 754_1/23/06, 860_2/17/06
HPGe Data: 30687_2/20/04, 2/26/04; 40227_2/20/04
Measurement Date: 02/19/2004 - 02/25/2006

High Leachability boundary
CDL Boundary
Sub Area Boundary

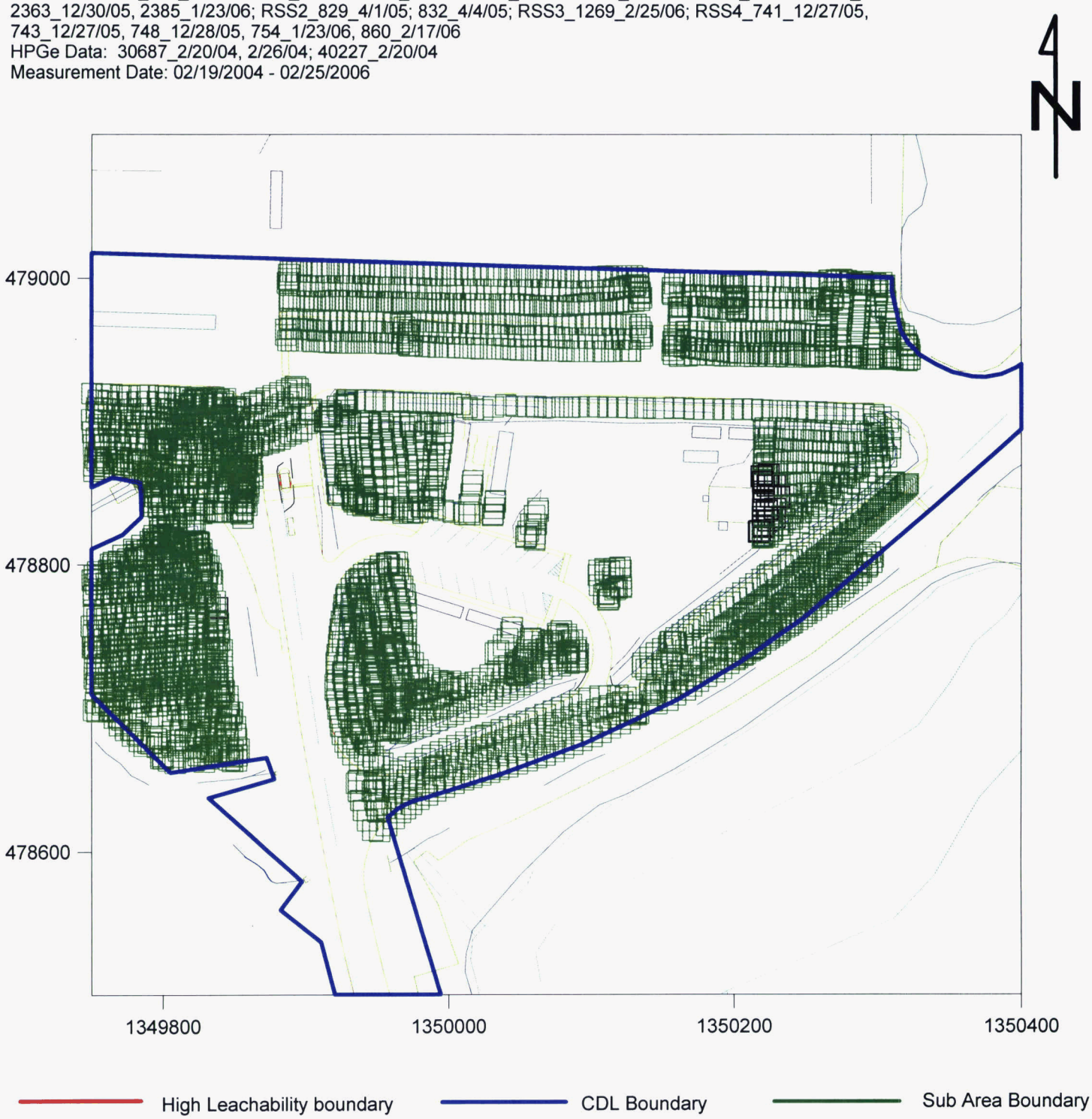
NaI Th-232 (pCi/g)	HPGe @ 100cm Th-232 (pCi/g)
-9999 to 4.5	**0 to 4.5**
4.5 to 9999	**4.5 to 9999**

RTIMP DWG ID: A7_Southeast_P1_TH_Fig4.srf
Project ID: Gen. Char. for Site. Soil Rem 20300-PSP-0011
Prepared by: M.Frank; 07-05-06
Support Data: A1P4_PT4_P1_NaI_v2.xls, A7K_SF_P1_NaI_v3.xls; A7_SAR_P1_NaI_v3.xls; A7_SF_NaI_v3.xls; A7_SF_NaI_v2.xls A7_P1_HPGe_v3.xls; A7_SF_HPGe_v2.xls

Figure 5: Area 7 Security Trailer Complex Area, Total Counts Per Second

006185

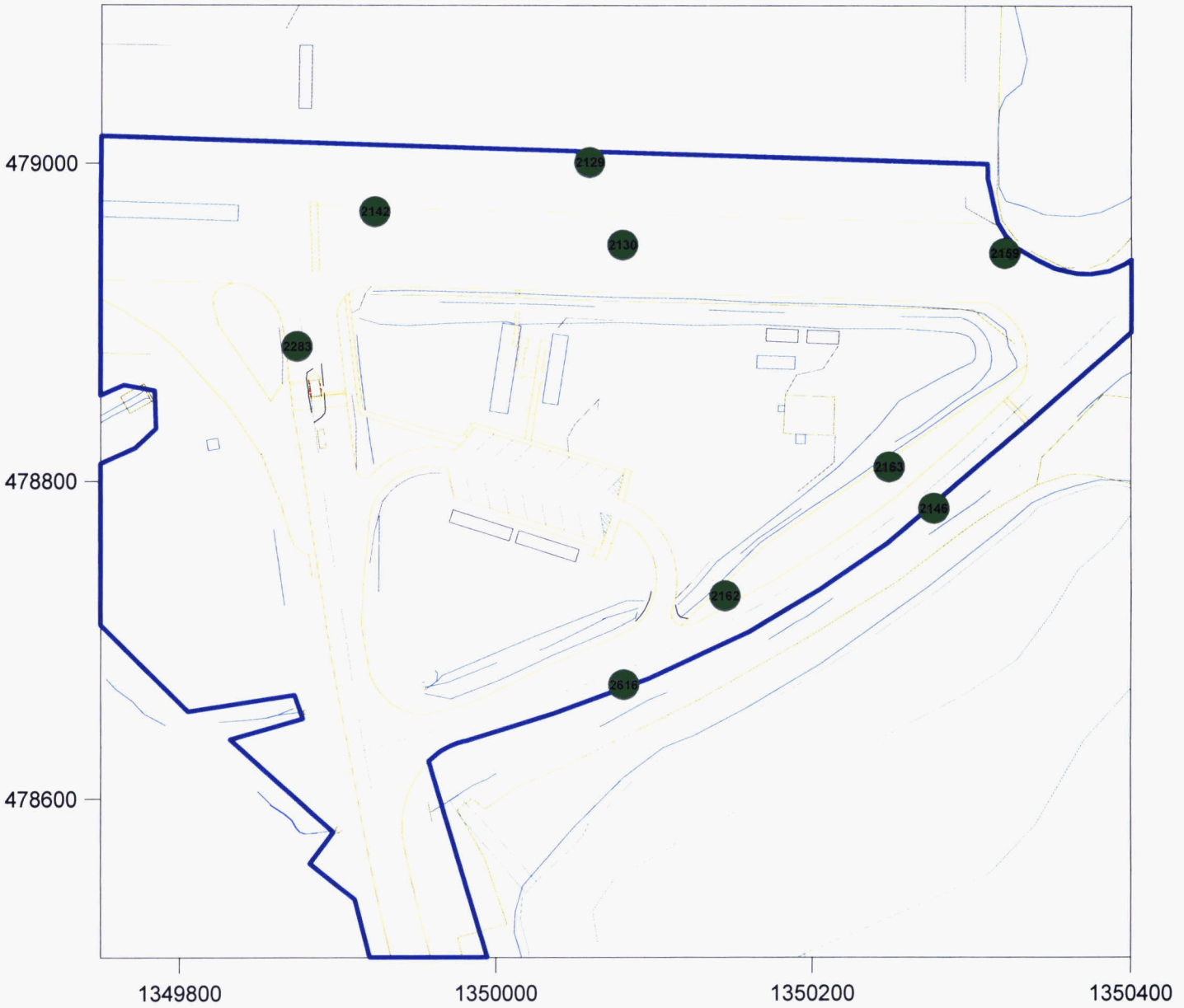
NaI Data: RSS1_918_2/19/04, 919_2/19/04, 931_2/27/04, 937_3/8/04, 1246_8/14/04, 1672_3/3/05, 2359_12/29/05, 2363_12/30/05, 2385_1/23/06; RSS2_829_4/1/05; 832_4/4/05; RSS3_1269_2/25/06; RSS4_741_12/27/05, 743_12/27/05, 748_12/28/05, 754_1/23/06, 860_2/17/06
HPGe Data: 30687_2/20/04, 2/26/04; 40227_2/20/04
Measurement Date: 02/19/2004 - 02/25/2006



RTIMP DWG ID: A7_Southeast_P1_TC_Fig5.srf
Project ID: Gen. Char. for Site. Soil Rem 20300-PSP-0011
Prepared by: M. Frank; 07-05-06
Support Data: A1P4_PT4_P1_NaI_v2.xls, A7K_SF_P1_NaI_v3.xls; A7_SAR_P1_NaI_v3.xls; A7_SF_NaI_v3.xls; A7_SF_NaI_v2.xls A7_P1_HPGe_v3.xls; A7_SF_HPGe_v2.xls

Figure 6: Area 7 Security Trailer Complex Area, Phase 2 Total Uranium

HPGe Data: 40227_3/02/04; 31144_12/28/05; 30687_1/23/06, 2/25/06; 30716_12/27/05, 12/29/05, 1/3/06; 30904_2/17/06; 31265_4/4/05, 12/30/05; 40743_3/4/05
Measurement Date: 03/02/2004 - 02/25/2006



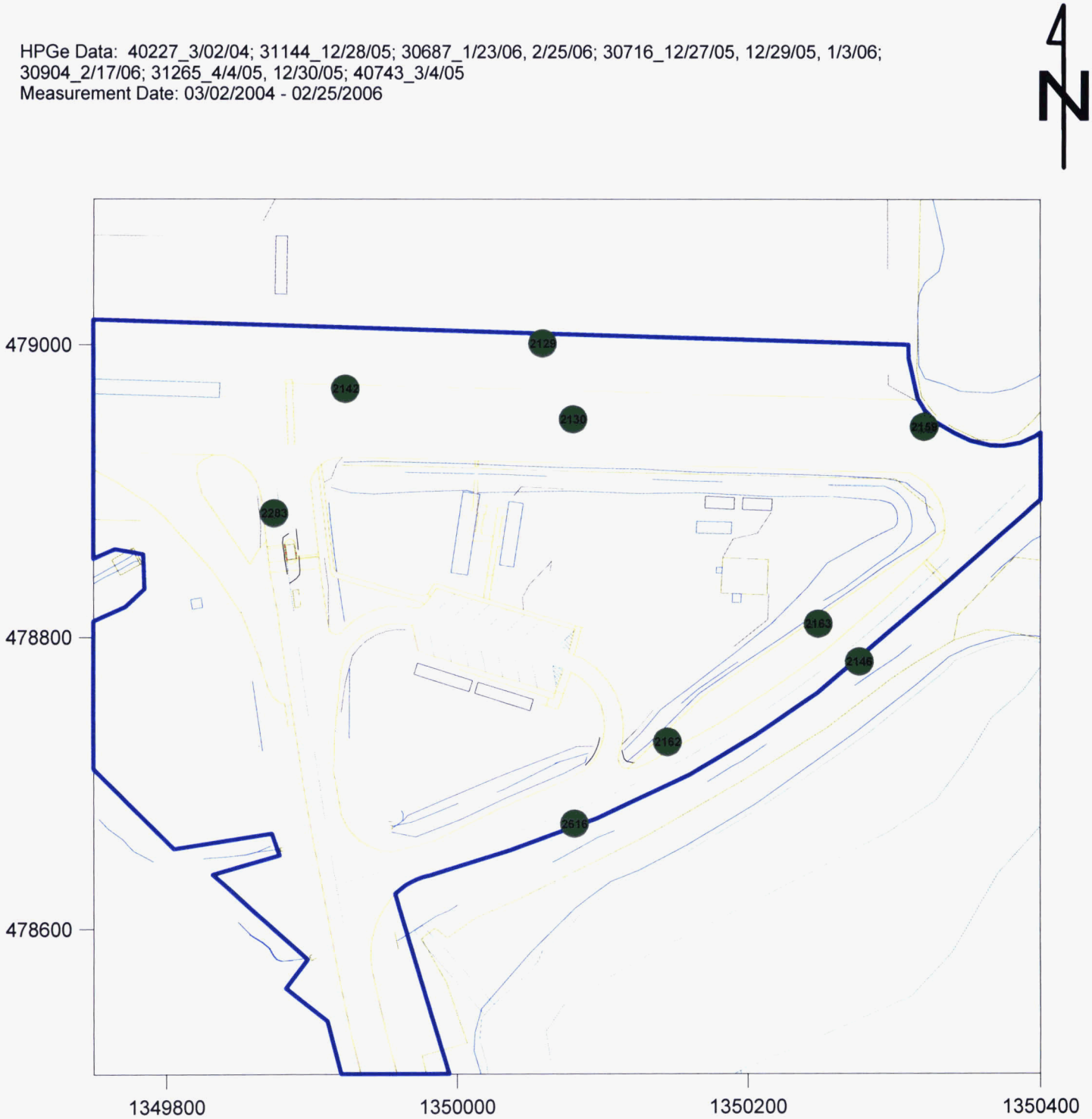
High Leachability boundary
CDL Boundary
Sub Area Boundary

HPGe @ 31cm
Total U (ppm)
0 to 246
246 to 9999

RTIMP DWG ID: A7_Southeast_P2_TU_Fig6.srf
Project ID: Gen. Char. for Site. Soil Rem 20300-PSP-0011
Prepared by: M. Frank; 07-05-06
Support Data: A1P4_PT4_P2_v2.xls, A7K_P2_v3.xls

Figure 7: Area 7 Security Trailer Complex Area, Phase 2 Radium-226

HPGe Data: 40227_3/02/04; 31144_12/28/05; 30687_1/23/06, 2/25/06; 30716_12/27/05, 12/29/05, 1/3/06; 30904_2/17/06; 31265_4/4/05, 12/30/05; 40743_3/4/05
Measurement Date: 03/02/2004 - 02/25/2006



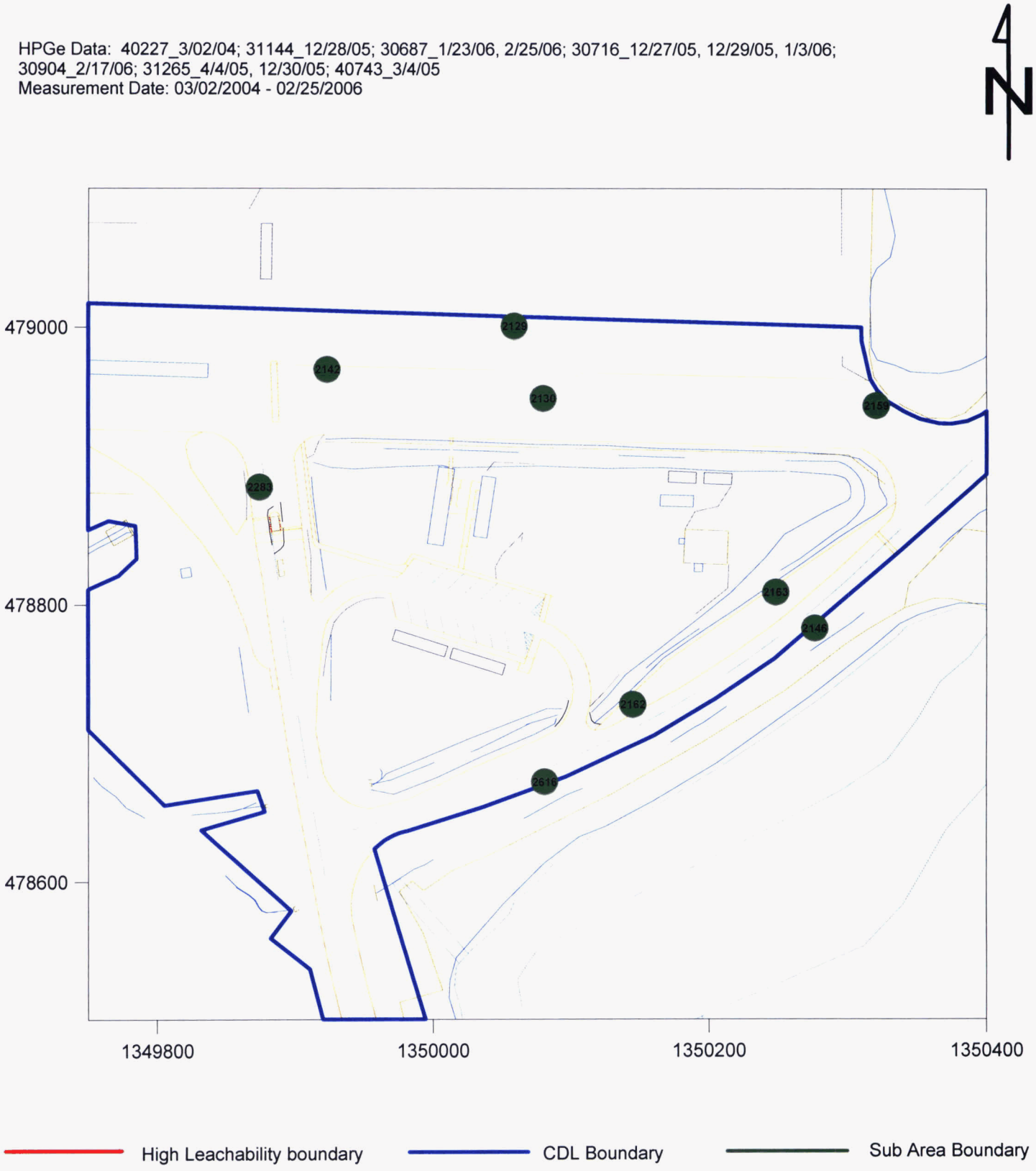
High Leachability boundary
CDL Boundary
Sub Area Boundary

HPGe @ 31cm
Ra-226 (pCi/g)
0 to 5.1
5.1 to 9999

RTIMP DWG ID: A7_Southeast_P2_Ra_Fig7.srf
Project ID: Gen. Char. for Site. Soil Rem 20300-PSP-0011
Prepared by: M. Frank; 07-05-06
Support Data: A1P4_PT4_P2_v2.xls, A7K_P2_v3.xls

Figure 8: Area 7 Security Trailer Complex Area, Phase 1 Thorium-232

HPGe Data: 40227_3/02/04; 31144_12/28/05; 30687_1/23/06, 2/25/06; 30716_12/27/05, 12/29/05, 1/3/06; 30904_2/17/06; 31265_4/4/05, 12/30/05; 40743_3/4/05
Measurement Date: 03/02/2004 - 02/25/2006



RTIMP DWG ID: A7_Southeast_P2_Th_Fig8.srf
Project ID: Gen. Char. for Site. Soil Rem 20300-PSP-0011
Prepared by: M. Frank; 07-05-06
Support Data: A1P4_PT4_P2_v2.xls, A7K_P2_v3.xls