

3.0 SOIL AND VEGETATION MONITORING

The radionuclide content of soil and vegetation was measured to evaluate long-term trends in environmental accumulation of radioactivity in the 100, 200/600, and 300/400 Areas. Soil and vegetation samples were collected on or near facilities that store, handle, or dispose of radioactive waste. The number of soil and vegetation samples collected in 2004 and their locations are shown in Table 3-1.

Table 3-1. Soil and Vegetation Samples Collected During 2004.

Sample Type	Locations	Operational Area						
		100-B/C	100-F	100-K	100-N	ERDF ^b	200/600 ^a	300/400
Soil	83	2	2	1	7	1	56	14
Vegetation	69	0	0	0	6	0	49	14

^aEven-numbered soil and vegetation sampling locations in the 200/600 Areas are sampled in even-numbered years.

^bEnvironmental Restoration Disposal Facility in the 200 West Area.

Soil sampling locations are illustrated in Figures 3-1 through 3-9. A summary of near-facility soil sampling results for selected radionuclides collected during 2004 is presented in Table 3-2. Historical soil sampling results for the 100, 200/600, and 300/400 Areas are displayed in Table 3-3. The 2004 soil sampling results for all areas are provided in Table 3-4.

Vegetation sampling locations are illustrated in Figures 3-10 through 3-15. A summary of near-facility vegetation sampling results for selected radionuclides collected during 2004 is presented in Table 3-5. Historical vegetation sampling results for the 100-N, 200/600, and 300/400 Areas are displayed in Table 3-6. The 2004 vegetation sampling results for all areas are provided in Table 3-7.

Radionuclide analyses indicated that strontium-90, cesium-137, plutonium-239/240, and uranium were consistently detectable in both soil and vegetation samples in 2004. Generally, the predominant radionuclides observed in soil samples were activation and fission products in the 100 Areas, fission products in the 200 Areas, and uranium in the 300 Area. For vegetation samples, the predominant radionuclides were generally activation and fission products in the 100 Areas, fission products in the 200 Areas, and uranium in the 300 Area.

Strontium-90 results for soil and vegetation samples for this report period showed a frequent occurrence of negative (i.e., less than zero) concentrations. This was primarily due to changes in laboratory background correction calculations that were implemented during 2003. Both historical and current values are within accepted statistical ranges as evidenced by laboratory QA and performance evaluation programs.

Additional discussion of the 2004 soil and vegetation results can be found in Sections 8.9.1 and 8.10.2 of PNNL-15222.

Figure 3-1. 2004 Soil Sampling Locations, 100-B/C Area.

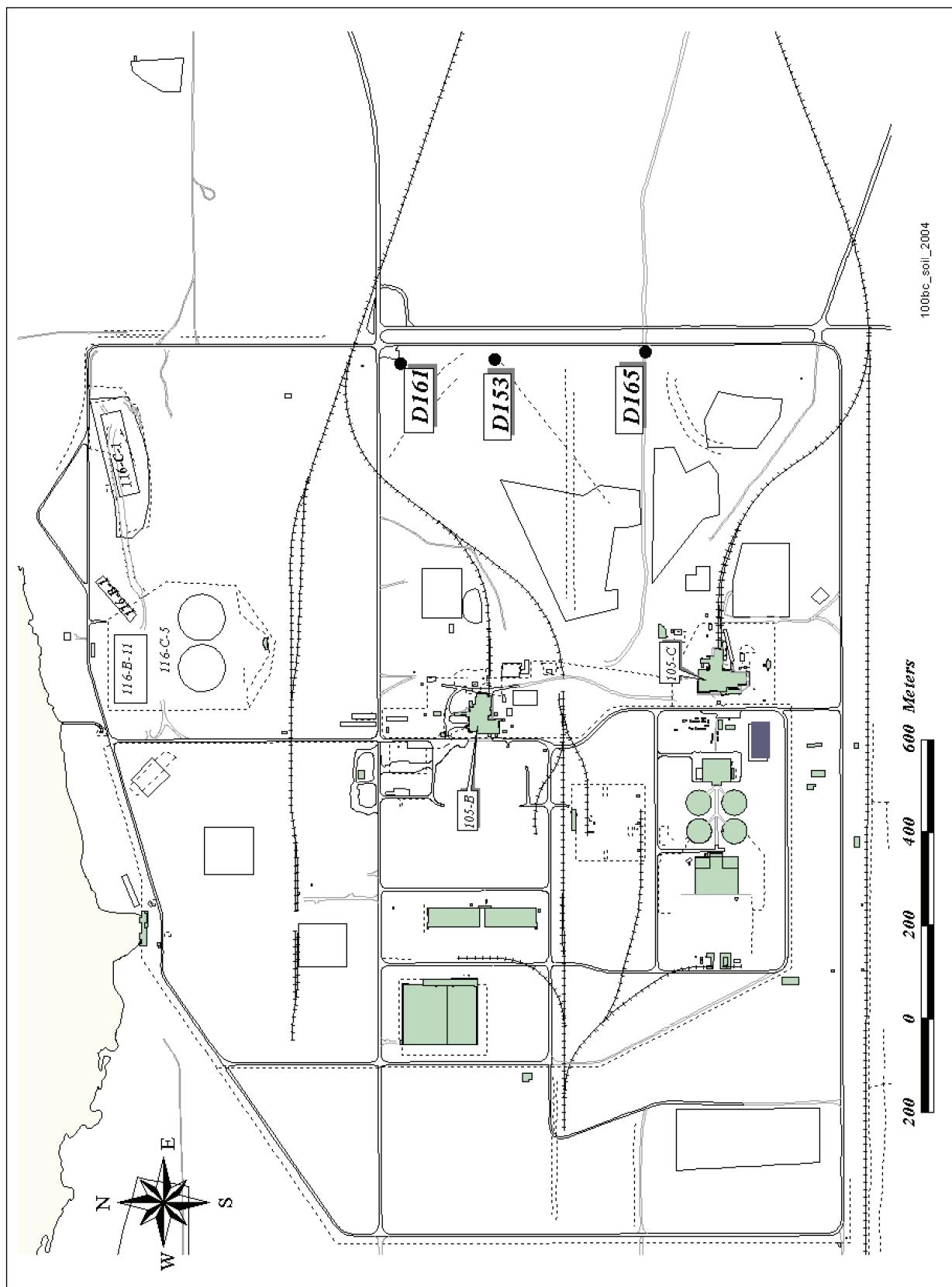


Figure 3-2. 2004 Soil Sampling Locations, 100-F Area.

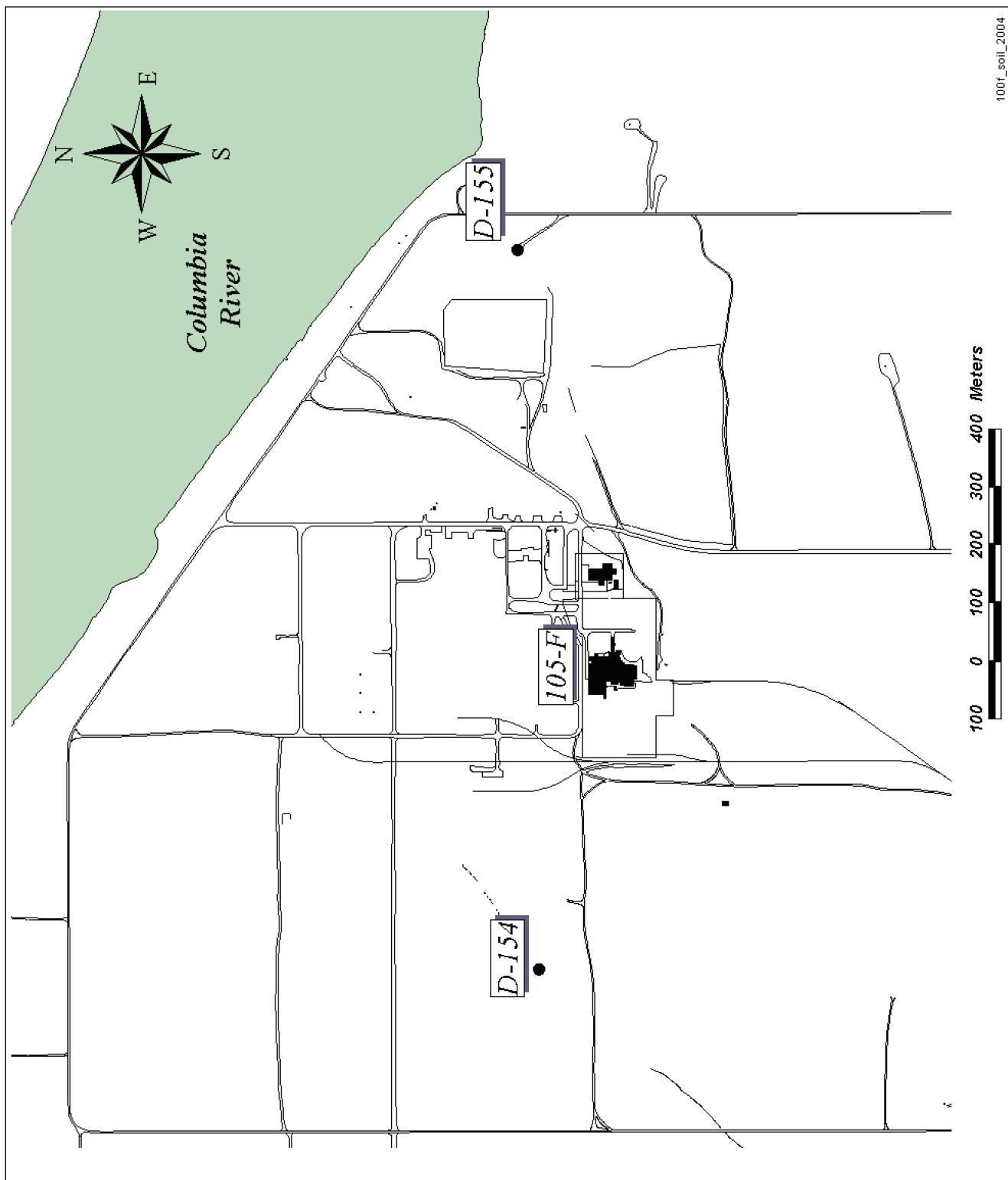


Figure 3-3. 2004 Soil Sampling Locations, 100-K Area.

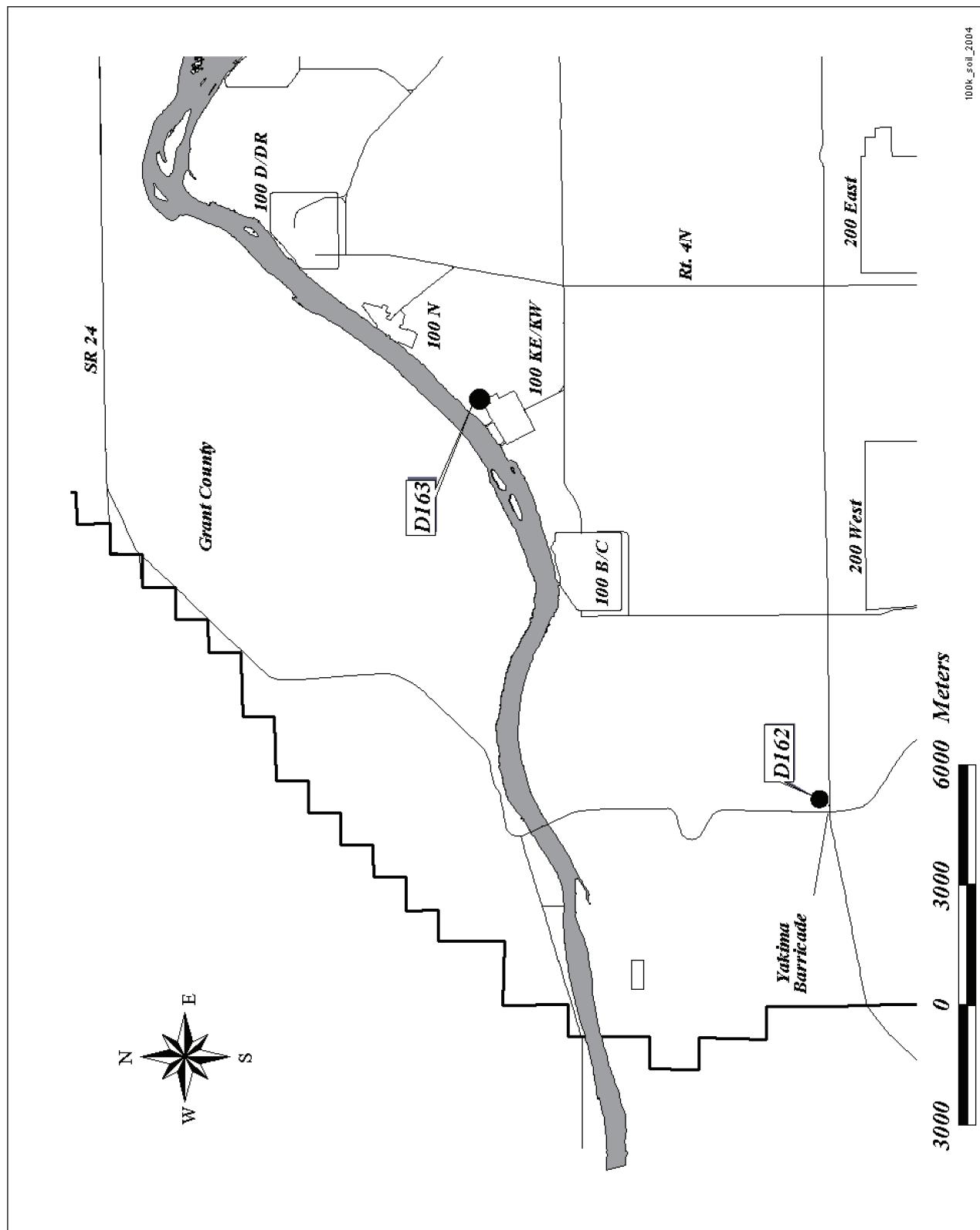


Figure 3-4. 2004 Soil Sampling Locations, 100-N Area.

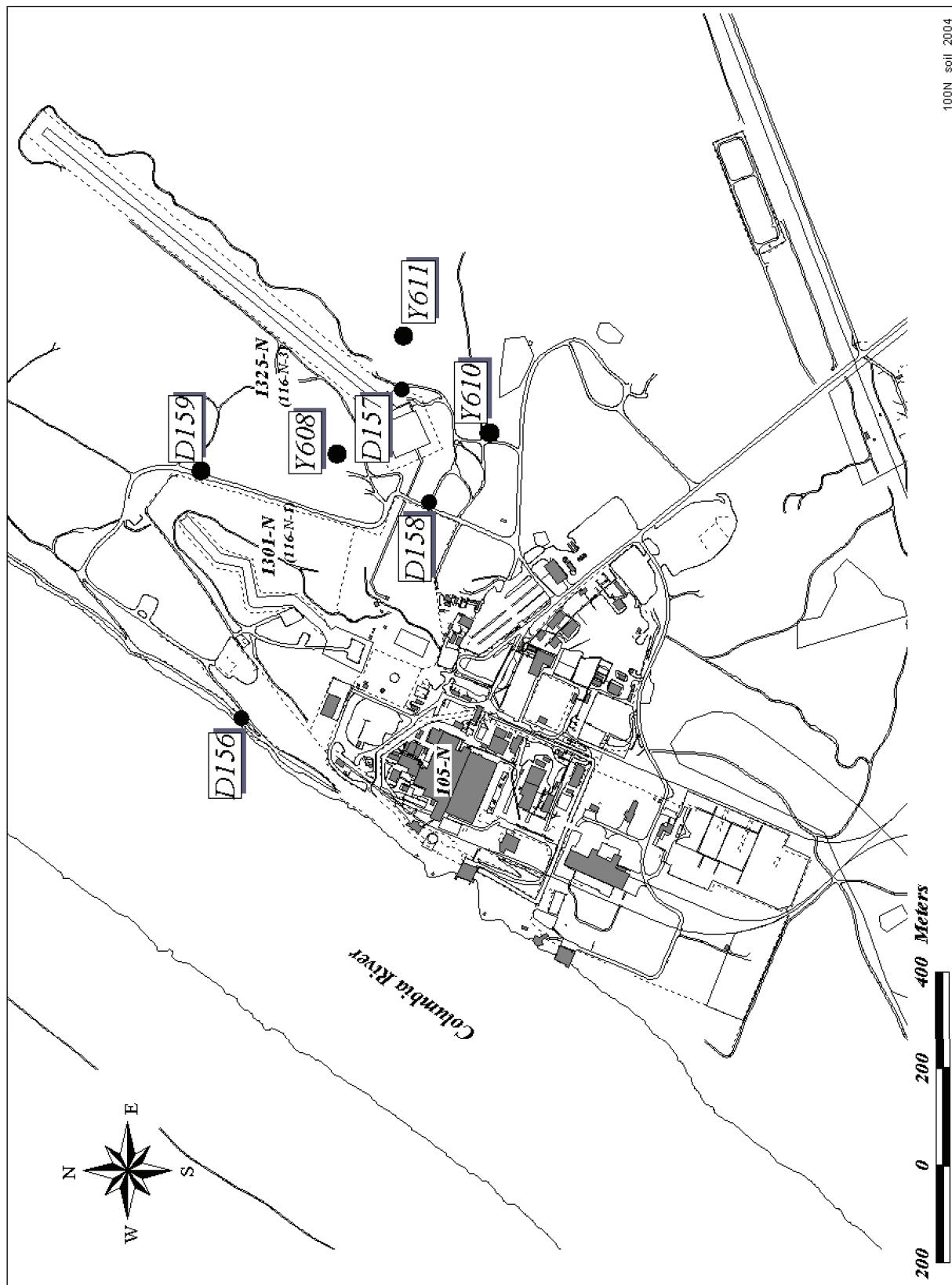


Figure 3-5. 2004 Soil Sampling Locations, 200 East Area.

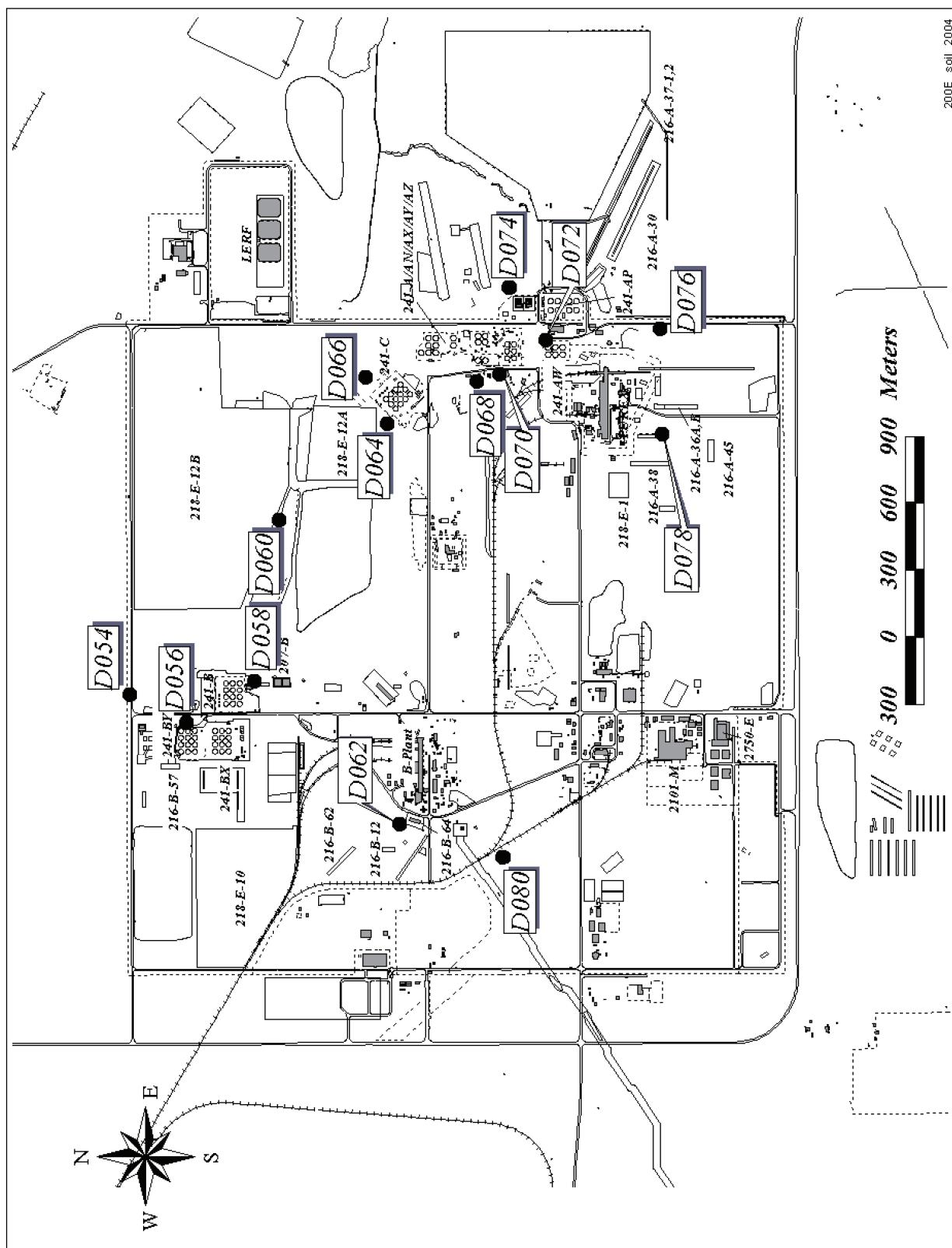


Figure 3-6. 2004 Soil Sampling Locations, 200 West Area.

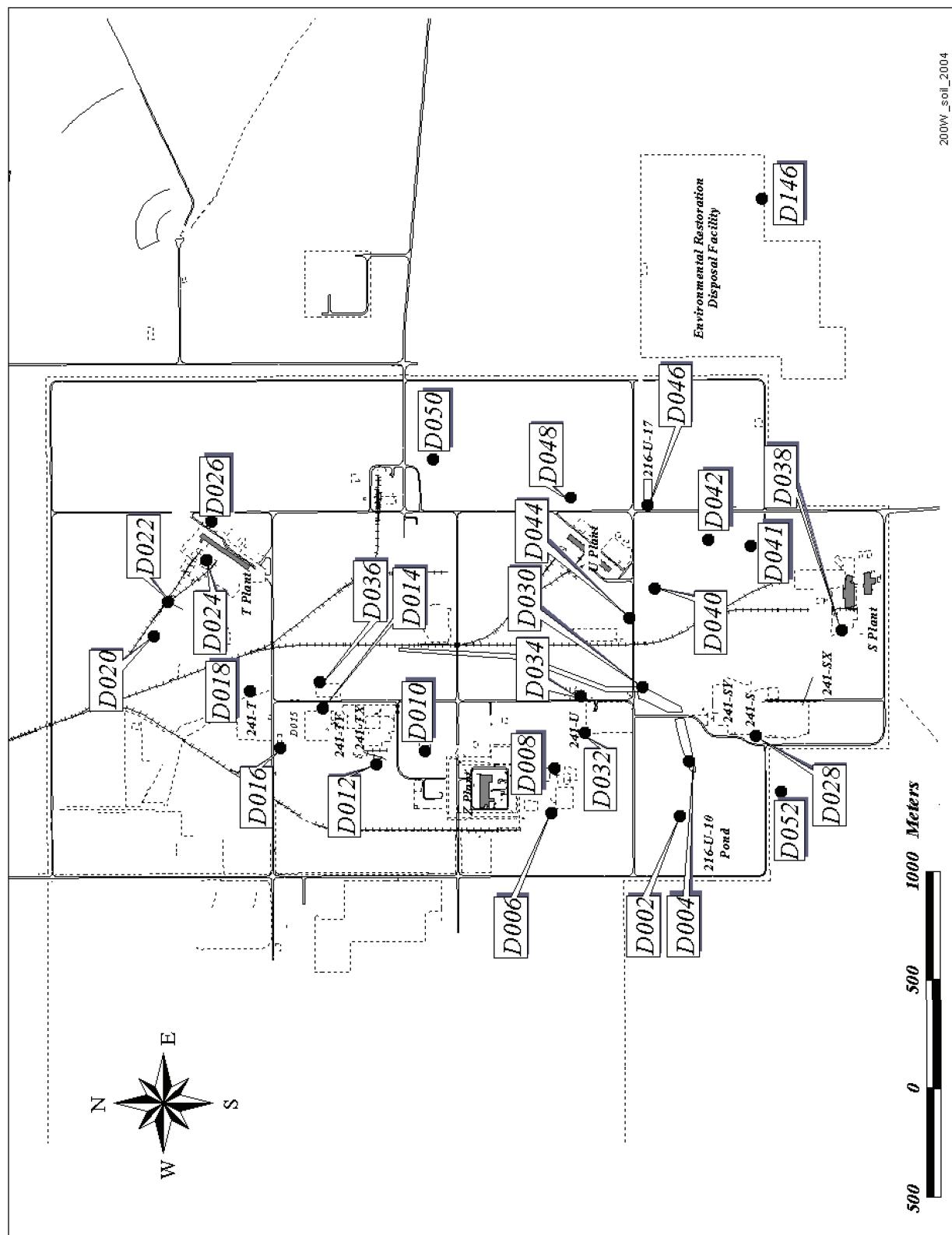


Figure 3-7. 2004 Soil Sampling Locations, 300 Area.

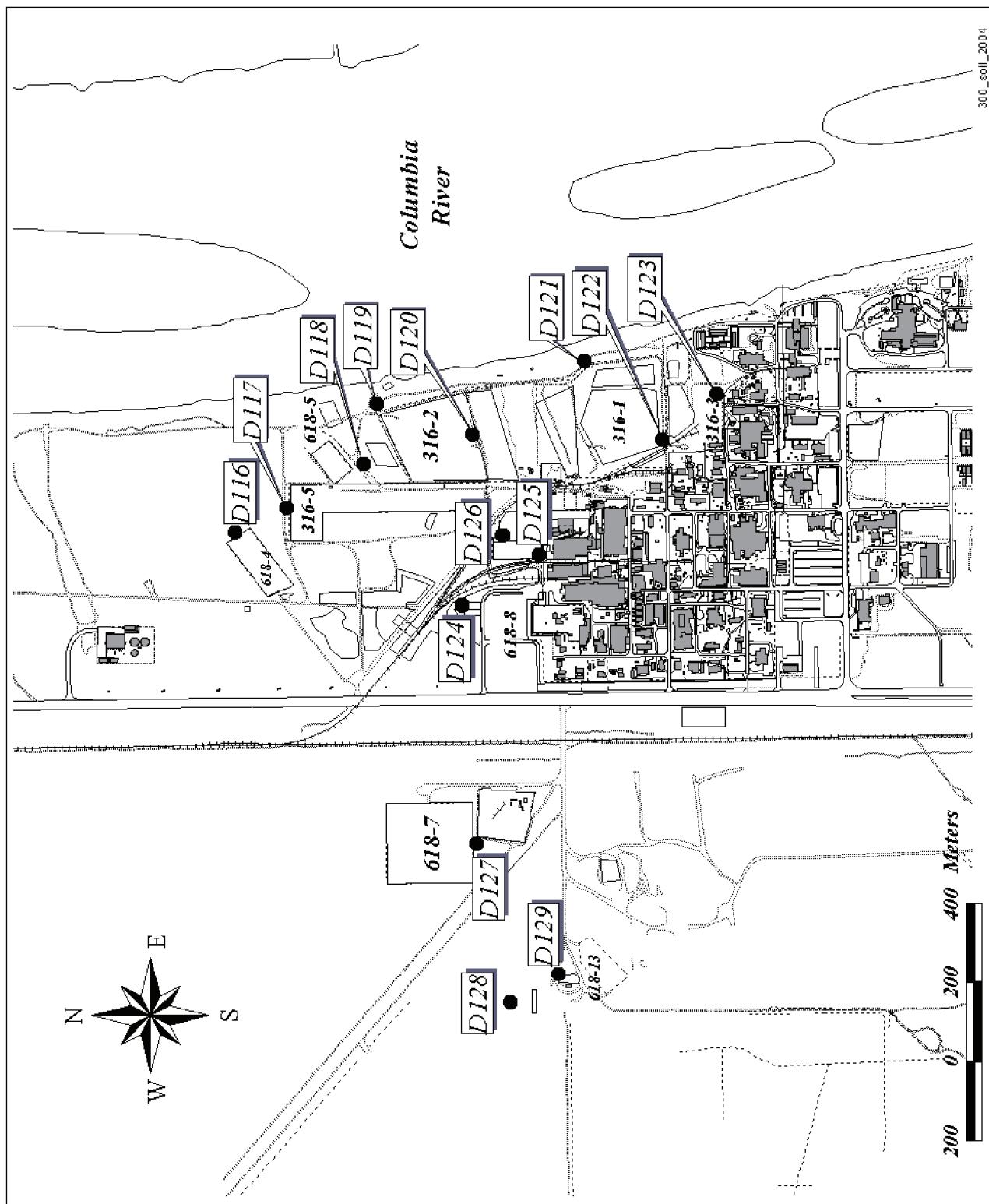


Figure 3-8. 2004 Soil Sampling Locations, 400 Area.

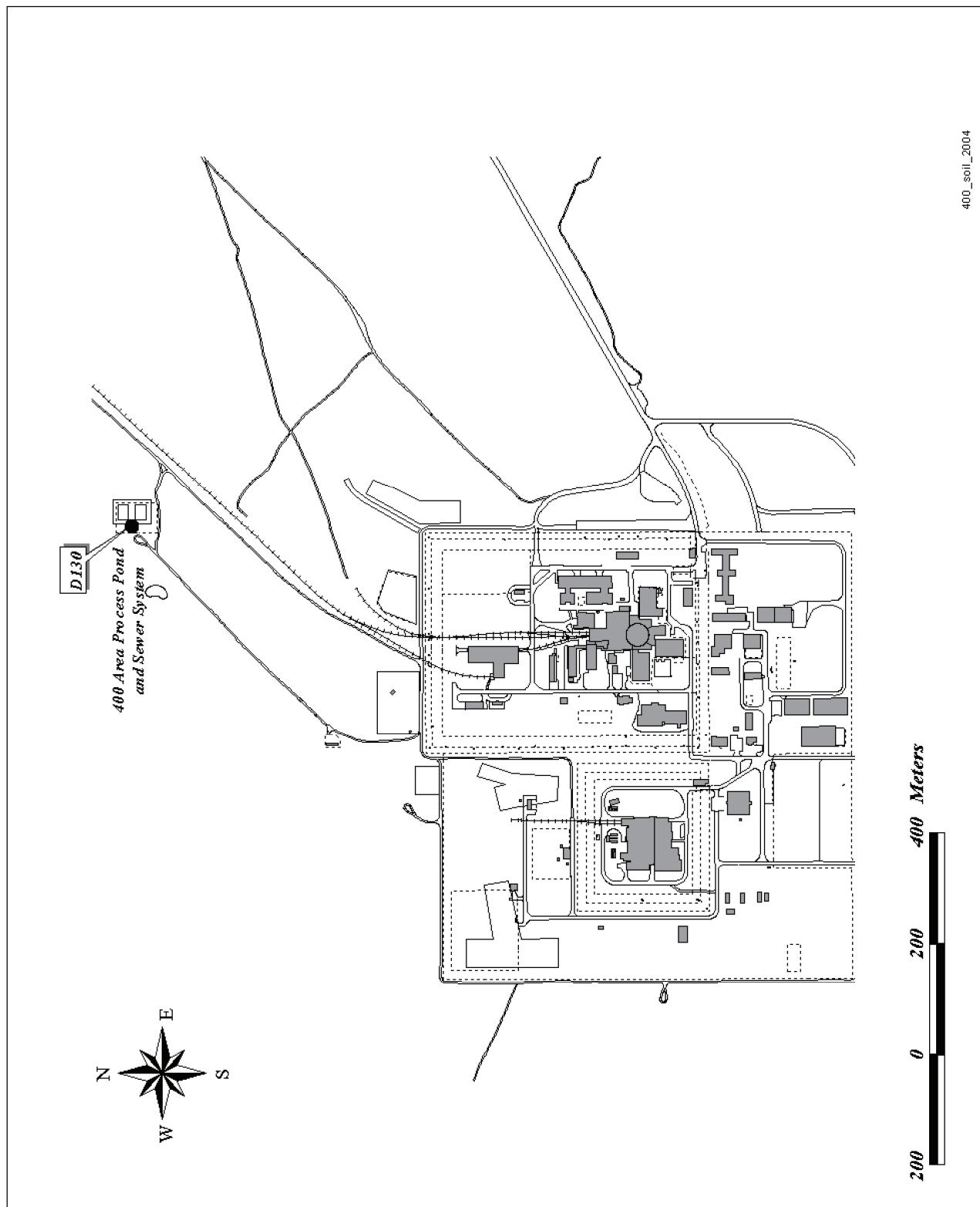


Figure 3-9. 2004 Soil Sampling Locations, 600 Area.

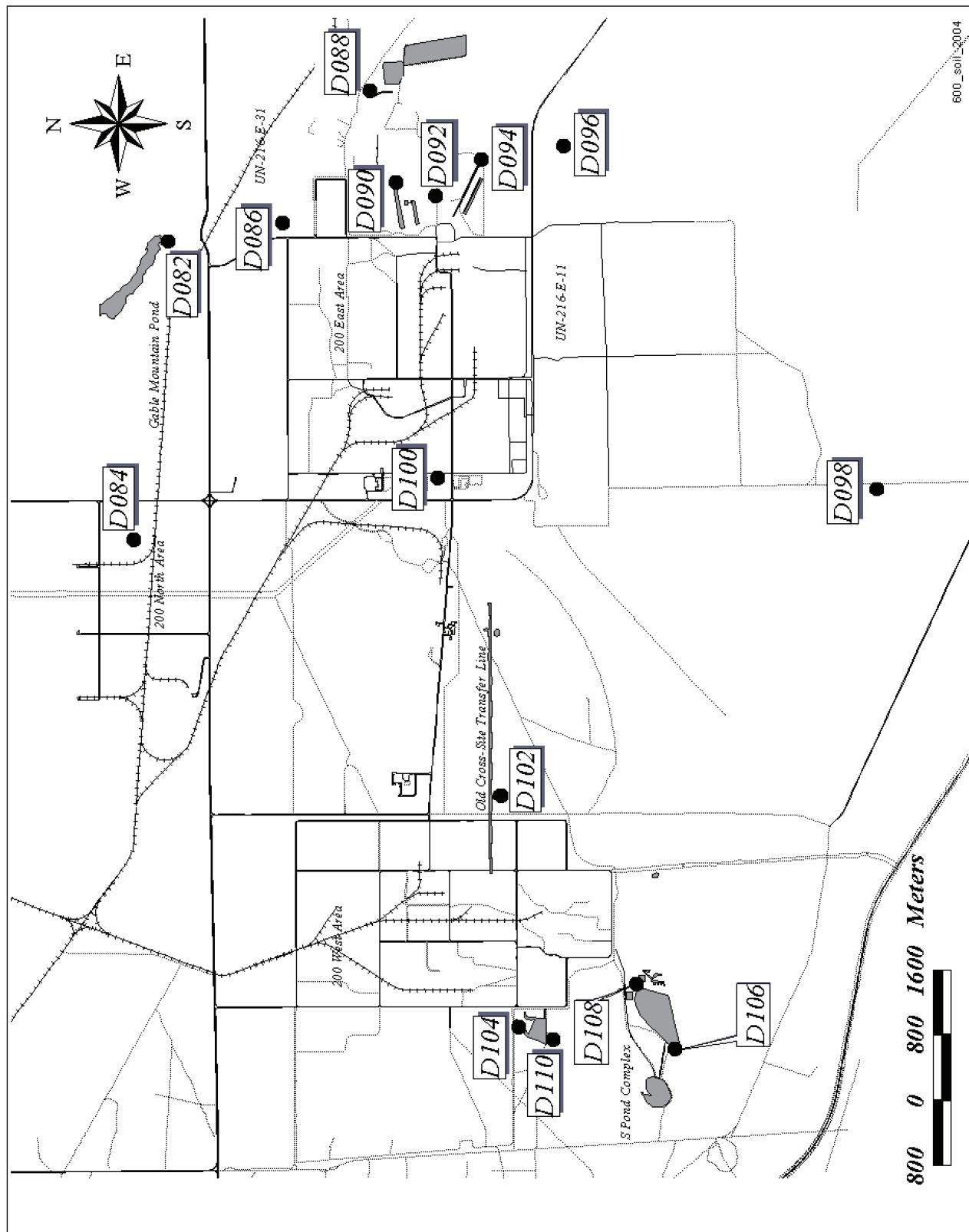


Table 3-2. Summary of Near-Facility Soil Sampling Results (pCi/g) for Selected Radionuclides, 2004.

Isotope	Number of			Location		
	Detector	Samples	Mean ^a	Maximum ^b	Area	Site ID
⁶⁰ Co	10	83	5.7E-02 ± 8.1E-01	3.7E+00 ± 3.4E-01	100-N	D157
¹³⁴ Cs	82	83	3.7E-02 ± 1.8E-02	5.8E-02 ± 2.4E-02	200 West	D040
¹³⁷ Cs	80	83	2.0E+00 ± 1.4E+01	6.1E+01 ± 9.7E+00	600 Area	D088
¹⁵⁵ Eu	17	83	3.5E-02 ± 4.5E-02	7.9E-02 ± 4.6E-02	600 Area	D088
^{239/240} Pu	46	83	2.6E-01 ± 2.7E+00	1.2E+01 ± 3.1E+00	600 Area	D088
⁹⁰ Sr	14	83	3.9E-02 ± 7.3E-01	1.2E+00 ± 3.6E-01	200 West	D034
²³⁴ U	83	83	3.0E-01 ± 1.3E+00	4.7E+00 ± 1.2E+00	300 Area	D119
²³⁵ U	41	83	2.0E-02 ± 6.8E-02	2.4E-01 ± 7.7E-02	300 Area	D131
²³⁸ U	83	83	3.0E-01 ± 1.4E+00	4.6E+00 ± 1.2E+00	300 Area	D119

^a± 2 standard deviations

^b± total analytical uncertainty

Table 3-3. Average Radionuclide Concentrations (pCi/g^a)
in Hanford Soils, 1995 through 2004.

<u>100 Areas</u>						
Year	⁶⁰ Co	⁹⁰ Sr	¹³⁷ Cs	²³⁴ U	²³⁸ U	^{239,240} Pu
1995	9.4E-01 ± 9.9E+01	1.3E-01 ± 6.9E-02	5.1E-01 ± 2.4E-01	9.1E-02 ± 1.0E-02	9.7E-02 ± 2.7E-02	1.4E-02 ± 9.3E-03
1996	1.5E+00 ± 1.1E+00	2.0E-01 ± 7.6E-02	7.7E-01 ± 4.1E-01	5.7E-02 ± 8.0E-03	5.7E-01 ± 1.2E-01	4.3E-02 ± 1.6E-02
1997	2.5E+00 ± 3.0E-01	3.9E-01 ± 6.5E-01	8.9E-01 ± 8.9E-01	2.1E-01 ± 3.8E-02	2.1E-01 ± 3.4E-02	9.1E-01 ± 1.6E+00
1998	4.9E+00 ± 7.7E+00	1.2E+00 ± 1.1E+00	3.1E+00 ± 4.1E+00	2.1E-01 ± 6.0E-02	1.7E-01 ± 3.0E-02	1.5E-01 ± 1.3E-01
1999	1.6E+00 ± 2.1E+00	2.0E+00 ± 2.0E+00	8.4E-01 ± 8.1E-01	2.2E-01 ± 3.0E-02	2.0E-01 ± 3.0E-02	2.9E-02 ± 2.3E-02
2000	3.1E+00 ± 3.0E+00	8.4E-01 ± 4.5E-01	2.5E+00 ± 2.3E+00	2.2E-01 ± 8.7E-02	2.2E-01 ± 3.2E-02	5.8E-02 ± 3.3E-02
2001	4.0E-01 ± 3.4E-01	4.8E-01 ± 3.0E-01	3.9E-01 ± 1.6E-01	2.4E-01 ± 3.6E-02	2.5E-01 ± 2.7E-02	3.1E-02 ± 2.0E-02
2002	3.0E-01 ± 1.1E+00	1.5E-01 ± 4.7E-01	2.6E-01 ± 5.1E-01	1.3E-01 ± 4.7E-02	1.1E-01 ± 3.9E-02	6.1E-03 ± 6.1E-03
2003	1.8E-01 ± 2.1E-02	-8.2E-02 ± 2.4E-01	2.1E-01 ± 3.6E-02	1.4E-01 ± 4.8E-02	1.5E-01 ± 5.1E-02	1.8E-03 ± 6.3E-03
2004	3.9E-01 ± 2.0E+00	-1.3E-01 ± 5.7E-01	3.8E-01 ± 1.1E+00	1.3E-01 ± 5.9E-02	1.4E-01 ± 6.4E-02	1.1E-01 ± 6.0E-01
<u>200/600 Areas</u>						
Year	⁶⁰ Co	⁹⁰ Sr	¹³⁷ Cs	²³⁴ U	²³⁸ U	^{239,240} Pu
1995	4.0E-03 ± 4.0E-03	4.9E-01 ± 1.8E-01	2.7E+00 ± 1.1E+00	1.2E-01 ± 1.7E-02	1.2E-01 ± 1.6E-02	7.0E-02 ± 3.0E-02
1996	3.0E-03 ± 3.0E-03	3.5E-01 ± 2.0E-01	2.0E+00 ± 7.0E-01	1.0E-01 ± 1.2E-02	1.1E-01 ± 1.2E-02	1.6E-01 ± 1.0E-01
1997	3.0E-02 ± 2.0E-02	6.7E-01 ± 2.3E-01	1.8E+00 ± 4.0E-01	2.0E-01 ± 1.4E-02	2.0E-01 ± 1.4E-02	1.0E-01 ± 7.0E-02
1998	1.9E-02 ± 6.0E-03	5.0E-01 ± 1.4E-01	1.1E+00 ± 4.0E-01	1.9E-01 ± 1.0E-02	1.9E-01 ± 1.0E-02	1.3E-01 ± 1.0E-02
1999	Not Detected	1.1E+00 ± 5.0E-01	1.4E+00 ± 5.0E-01	2.3E-01 ± 2.0E-02	2.2E-01 ± 2.0E-02	1.0E-01 ± 5.0E-02
2000	6.0E-03 ± 6.0E-03	1.1E+00 ± 2.0E-01	1.4E+00 ± 5.0E-01	2.3E-01 ± 3.0E-02	2.3E-01 ± 3.0E-02	4.1E-01 ± 4.2E-01
2001	Not Detected	5.5E-01 ± 2.3E-01	1.5E+00 ± 5.4E-01	2.2E-01 ± 1.4E-02	2.2E-01 ± 1.4E-02	1.3E-01 ± 6.2E-02
2002	Not Detected	2.7E-01 ± 6.6E-01	1.4E+00 ± 4.3E+00	1.7E-01 ± 1.0E-01	1.7E-01 ± 1.1E-01	1.2E-01 ± 7.2E-01
2003	2.4E-03 ± 1.3E-02	8.4E-02 ± 6.3E-01	1.8E+00 ± 6.3E-01	1.6E-01 ± 9.6E-02	1.7E-01 ± 1.0E-01	9.3E-02 ± 5.0E-01
2004	8.1E-04 ± 1.1E-02	1.3E-01 ± 7.8E-01	2.8E+00 ± 1.7E+01	1.7E-01 ± 1.9E-01	1.7E-01 ± 1.5E-01	3.5E-01 ± 3.2E+00
<u>300/400 Areas</u>						
Year	⁶⁰ Co	⁹⁰ Sr	¹³⁷ Cs	²³⁴ U	²³⁸ U	^{239,240} Pu
1995	2.0E-03 ± 1.0E-03	5.0E-02 ± 2.0E-02	2.4E-01 ± 1.1E-01	2.1E+00 ± 2.0E+00	2.1E+00 ± 2.1E+00	2.6E-02 ± 2.4E-02
1996	2.0E-03 ± 6.0E-03	4.0E-02 ± 1.0E-02	1.5E-01 ± 7.0E-02	1.3E+00 ± 1.0E+00	1.2E+00 ± 1.0E+00	2.5E-02 ± 3.3E-02
1997	Not Detected	4.5E-01 ± 1.9E-01	7.0E-02 ± 3.0E-02	9.0E-01 ± 1.0E-01	9.0E-01 ± 9.0E-01	3.8E-02 ± 4.9E-02
1998	Not Detected	2.4E-01 ± 1.2E-01	9.0E-02 ± 8.0E-02	8.5E-01 ± 9.8E-01	8.2E-01 ± 9.8E-01	4.5E-02 ± 5.7E-02
1999	Not Detected	8.7E-01 ± 1.9E-01	9.0E-02 ± 3.0E-02	7.5E-01 ± 5.4E-01	7.1E-01 ± 5.3E-01	4.0E-02 ± 2.0E-02
2000	Not Detected	5.9E-01 ± 1.8E-01	1.4E-01 ± 6.0E-02	5.4E+00 ± 5.6E+00	5.4E+00 ± 5.7E+00	1.7E-01 ± 8.0E-02
2001	Not Detected	Not Detected	5.0E-02 ± 2.1E-02	9.4E-01 ± 7.1E-01	9.5E-01 ± 7.3E-01	4.1E-02 ± 2.6E-02
2002	Not Detected	2.8E-02 ± 2.9E-02	7.4E-02 ± 1.3E-01	1.5E+00 ± 6.4E+00	1.5E+00 ± 6.4E+00	2.4E-02 ± 9.9E-02
2003	Not Detected	5.6E-02 ± 7.3E-02	8.1E-02 ± 1.4E-01	1.3E+00 ± 5.1E+00	1.3E+00 ± 5.2E+00	7.5E-02 ± 3.8E-01
2004	Not Detected	Not Detected	9.2E-02 ± 1.4E-01	9.6E-01 ± 2.9E+00	9.7E-01 ± 3.0E+00	2.8E-02 ± 6.7E-02

^a ± 2 standard deviations

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D146 (ERDF)	¹⁴⁴ Ce	5.5E-02 ± 1.1E-01	U	D153 (100-B/C Remedial Action)	¹⁴⁴ Ce	-4.4E-02 ± 1.2E-01	U
	⁶⁰ Co	3.0E-03 ± 5.2E-03	U		⁶⁰ Co	3.5E-04 ± 3.5E-03	U
	¹³⁴ Cs	2.7E-02 ± 8.4E-03			¹³⁴ Cs	3.2E-02 ± 1.3E-02	
	¹³⁷ Cs	9.0E-04 ± 5.6E-03	U		¹³⁷ Cs	2.7E-01 ± 4.5E-02	
	¹⁵² Eu	1.2E-03 ± 1.2E-02	U		¹⁵² Eu	8.1E-04 ± 8.1E-03	U
	¹⁵⁴ Eu	4.3E-03 ± 2.9E-02	U		¹⁵⁴ Eu	-1.7E-04 ± 1.7E-03	U
	¹⁵⁵ Eu	4.8E-02 ± 3.0E-02			¹⁵⁵ Eu	4.9E-02 ± 3.4E-02	
	²³⁸ Pu	2.8E-03 ± 3.9E-03	U		²³⁸ Pu	5.1E-03 ± 6.1E-03	U
	^{239/240} Pu	1.4E-03 ± 1.4E-02	U		^{239/240} Pu	1.3E-03 ± 2.6E-03	U
	¹⁰³ Ru	-2.5E-04 ± 2.5E-03	U		¹⁰³ Ru	4.8E-03 ± 9.3E-03	U
	¹⁰⁶ Ru	5.2E-02 ± 5.3E-02	U		¹⁰⁶ Ru	7.6E-03 ± 5.0E-02	U
	¹²⁵ Sb	4.0E-03 ± 1.5E-02	U		¹²⁵ Sb	9.9E-03 ± 1.7E-02	U
	¹¹³ Sn	-2.6E-03 ± 7.8E-03	U		¹¹³ Sn	-1.1E-05 ± 1.1E-04	U
	⁹⁰ Sr	-1.7E-01 ± 2.3E-01	U		⁹⁰ Sr	4.5E-02 ± 2.4E-01	U
	²³⁴ U	2.4E-01 ± 7.9E-02			²³⁴ U	1.4E-01 ± 4.9E-02	
	²³⁵ U	9.0E-03 ± 1.1E-02			²³⁵ U	8.7E-03 ± 8.7E-03	
	²³⁸ U	1.5E-01 ± 5.7E-02			²³⁸ U	1.0E-01 ± 3.8E-02	
	⁶⁵ Zn	-3.7E-03 ± 1.6E-02	U		⁶⁵ Zn	-1.5E-02 ± 1.8E-02	U
D165 (100-B/C Remedial Action)	¹⁴⁴ Ce	9.8E-02 ± 1.1E-01	U	D154 (100-F Remedial Action)	¹⁴⁴ Ce	-7.8E-02 ± 1.2E-01	U
	⁶⁰ Co	1.6E-04 ± 1.6E-03	U		⁶⁰ Co	7.0E-03 ± 6.8E-03	U
	¹³⁴ Cs	3.1E-02 ± 9.0E-03			¹³⁴ Cs	3.6E-02 ± 1.2E-02	
	¹³⁷ Cs	1.3E-01 ± 2.3E-02			¹³⁷ Cs	2.9E-02 ± 9.8E-03	
	¹⁵² Eu	-5.4E-03 ± 1.7E-02	U		¹⁵² Eu	8.1E-02 ± 1.8E-02	
	¹⁵⁴ Eu	7.7E-04 ± 7.7E-03	U		¹⁵⁴ Eu	-2.8E-03 ± 2.1E-02	U
	¹⁵⁵ Eu	4.3E-02 ± 3.1E-02			¹⁵⁵ Eu	3.6E-02 ± 3.7E-02	
	²³⁸ Pu	-2.2E-02 ± 3.1E-02	U		²³⁸ Pu	-1.4E-03 ± 4.9E-03	U
	^{239/240} Pu	1.7E-03 ± 9.0E-03	U		^{239/240} Pu	2.8E-03 ± 3.9E-03	U
	¹⁰³ Ru	-4.1E-03 ± 8.4E-03	U		¹⁰³ Ru	-5.2E-04 ± 5.2E-03	U
	¹⁰⁶ Ru	1.2E-02 ± 4.8E-02	U		¹⁰⁶ Ru	2.8E-02 ± 5.5E-02	U
	¹²⁵ Sb	-2.4E-03 ± 1.6E-02	U		¹²⁵ Sb	-1.8E-03 ± 1.7E-02	U
	¹¹³ Sn	-1.3E-03 ± 8.2E-03	U		¹¹³ Sn	-3.5E-03 ± 9.3E-03	U
	⁹⁰ Sr	-3.3E-01 ± 3.3E-01	U		⁹⁰ Sr	-4.1E-01 ± 4.1E-01	U
	²³⁴ U	8.8E-02 ± 4.2E-02			²³⁴ U	1.4E-01 ± 4.8E-02	
	²³⁵ U	1.8E-02 ± 1.7E-02			²³⁵ U	6.0E-03 ± 1.2E-02	U
	²³⁸ U	1.2E-01 ± 5.0E-02			²³⁸ U	2.1E-01 ± 6.3E-02	
	⁶⁵ Zn	-6.7E-03 ± 1.6E-02	U		⁶⁵ Zn	-5.1E-03 ± 2.8E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D155 (100-F Remedial Action)	¹⁴⁴ Ce	7.5E-02 ± 1.7E-01	U	D163 (100-KR-1 Remedial Action)	¹⁴⁴ Ce	-5.7E-02 ± 2.0E-01	U
	⁶⁰ Co	-2.9E-04 ± 2.9E-03	U		⁶⁰ Co	1.6E-02 ± 7.8E-03	
	¹³⁴ Cs	3.7E-02 ± 1.8E-02			¹³⁴ Cs	4.3E-02 ± 1.5E-02	
	¹³⁷ Cs	2.5E-01 ± 4.4E-02			¹³⁷ Cs	3.1E-01 ± 5.8E-02	
	¹⁵² Eu	2.3E-01 ± 3.7E-02			¹⁵² Eu	2.3E-01 ± 3.2E-02	
	¹⁵⁴ Eu	-1.5E-02 ± 3.2E-02	U		¹⁵⁴ Eu	4.3E-02 ± 5.1E-02	U
	¹⁵⁵ Eu	2.0E-02 ± 3.6E-02	U		¹⁵⁵ Eu	4.3E-02 ± 4.9E-02	U
	²³⁸ Pu	-5.2E-03 ± 2.6E-02	U		²³⁸ Pu	-1.0E-02 ± 4.8E-02	U
	^{239/240} Pu	1.4E-02 ± 1.3E-02	U		^{239/240} Pu	1.1E+00 ± 3.0E-01	
	¹⁰³ Ru	-1.3E-02 ± 1.6E-02	U		¹⁰³ Ru	4.8E-04 ± 4.7E-03	U
	¹⁰⁶ Ru	6.2E-02 ± 1.3E-01	U		¹⁰⁶ Ru	6.4E-02 ± 8.8E-02	U
	¹²⁵ Sb	2.8E-02 ± 2.9E-02	U		¹²⁵ Sb	1.7E-03 ± 1.7E-02	U
	¹¹³ Sn	-7.1E-03 ± 1.5E-02	U		¹¹³ Sn	9.6E-03 ± 1.5E-02	U
	⁹⁰ Sr	-2.7E-01 ± 3.0E-01	U		⁹⁰ Sr	-8.0E-02 ± 2.2E-01	U
	²³⁴ U	8.9E-02 ± 3.6E-02			²³⁴ U	1.3E-01 ± 5.1E-02	
	²³⁵ U	8.7E-03 ± 1.0E-02			²³⁵ U	5.1E-03 ± 1.0E-02	U
	²³⁸ U	9.1E-02 ± 3.5E-02			²³⁸ U	1.4E-01 ± 5.2E-02	
	⁶⁵ Zn	5.4E-02 ± 4.1E-02			⁶⁵ Zn	8.7E-02 ± 4.3E-02	
Y608 (100-N)	¹⁴⁴ Ce	4.9E-02 ± 1.5E-01	U	Y610 (100-N)	¹⁴⁴ Ce	-2.7E-02 ± 1.3E-01	U
	⁶⁰ Co	3.3E-01 ± 3.4E-02			⁶⁰ Co	2.8E-02 ± 1.0E-02	
	¹³⁴ Cs	2.8E-02 ± 1.3E-02			¹³⁴ Cs	4.0E-02 ± 1.4E-02	
	¹³⁷ Cs	3.6E-01 ± 6.7E-02			¹³⁷ Cs	2.2E-01 ± 3.7E-02	
	¹⁵² Eu	2.5E-02 ± 3.7E-02	U		¹⁵² Eu	8.9E-03 ± 2.4E-02	U
	¹⁵⁴ Eu	5.4E-03 ± 2.4E-02	U		¹⁵⁴ Eu	-7.3E-03 ± 2.1E-02	U
	¹⁵⁵ Eu	3.4E-02 ± 3.8E-02	U		¹⁵⁵ Eu	3.1E-02 ± 2.9E-02	U
	²³⁸ Pu	5.8E-03 ± 7.0E-03	U		²³⁸ Pu	-9.4E-03 ± 3.3E-02	U
	^{239/240} Pu	5.8E-03 ± 7.0E-03	U		^{239/240} Pu	5.6E-03 ± 1.1E-02	U
	¹⁰³ Ru	8.1E-03 ± 1.2E-02	U		¹⁰³ Ru	-5.4E-03 ± 1.0E-02	U
	¹⁰⁶ Ru	3.5E-02 ± 8.0E-02	U		¹⁰⁶ Ru	1.5E-02 ± 5.8E-02	U
	¹²⁵ Sb	-7.6E-03 ± 2.1E-02	U		¹²⁵ Sb	7.4E-03 ± 1.9E-02	U
	¹¹³ Sn	8.7E-04 ± 8.7E-03	U		¹¹³ Sn	-1.7E-03 ± 9.8E-03	U
	⁹⁰ Sr	-8.4E-02 ± 2.6E-01	U		⁹⁰ Sr	-4.0E-01 ± 4.0E-01	U
	²³⁴ U	1.9E-01 ± 5.5E-02			²³⁴ U	1.3E-01 ± 4.8E-02	
	²³⁵ U	9.4E-03 ± 9.4E-03			²³⁵ U	7.3E-03 ± 1.0E-02	U
	²³⁸ U	1.7E-01 ± 5.1E-02			²³⁸ U	1.3E-01 ± 4.9E-02	
	⁶⁵ Zn	2.2E-04 ± 2.2E-03	U		⁶⁵ Zn	-7.2E-03 ± 1.9E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
Y611 (100-N)	¹⁴⁴ Ce	3.1E-02 ± 1.2E-01	U	D156 (100-NR-1) Remedial Action)	¹⁴⁴ Ce	1.2E-02 ± 1.1E-01	U
	⁶⁰ Co	2.2E-01 ± 2.5E-02			⁶⁰ Co	2.8E-02 ± 8.5E-03	
	¹³⁴ Cs	3.9E-02 ± 1.4E-02			¹³⁴ Cs	2.9E-02 ± 1.1E-02	
	¹³⁷ Cs	2.5E-01 ± 4.2E-02			¹³⁷ Cs	6.0E-02 ± 1.7E-02	
	¹⁵² Eu	-1.0E-02 ± 2.1E-02	U		¹⁵² Eu	-9.6E-03 ± 1.8E-02	U
	¹⁵⁴ Eu	7.2E-03 ± 2.2E-02	U		¹⁵⁴ Eu	3.1E-04 ± 3.1E-03	U
	¹⁵⁵ Eu	4.0E-02 ± 3.3E-02	U		¹⁵⁵ Eu	3.0E-02 ± 2.7E-02	U
	²³⁸ Pu	1.7E-03 ± 1.7E-02	U		²³⁸ Pu	1.4E-03 ± 2.8E-03	U
	^{239/240} Pu	1.7E-03 ± 1.7E-02	U		^{239/240} Pu	1.4E-03 ± 6.3E-03	U
	¹⁰³ Ru	6.0E-03 ± 1.1E-02	U		¹⁰³ Ru	-2.9E-03 ± 9.7E-03	U
	¹⁰⁶ Ru	-2.3E-02 ± 6.8E-02	U		¹⁰⁶ Ru	4.7E-02 ± 5.4E-02	U
	¹²⁵ Sb	-1.6E-02 ± 1.9E-02	U		¹²⁵ Sb	5.7E-05 ± 5.6E-04	U
	¹¹³ Sn	-9.2E-03 ± 1.0E-02	U		¹¹³ Sn	-4.0E-04 ± 4.0E-03	U
	⁹⁰ Sr	-1.5E-01 ± 5.0E-01	U		⁹⁰ Sr	5.4E-01 ± 2.3E-01	
	²³⁴ U	1.2E-01 ± 4.2E-02			²³⁴ U	1.4E-01 ± 5.0E-02	
	²³⁵ U	1.2E-02 ± 1.2E-02			²³⁵ U	1.7E-02 ± 1.5E-02	U
	²³⁸ U	1.4E-01 ± 4.8E-02			²³⁸ U	1.5E-01 ± 5.3E-02	
	⁶⁵ Zn	-2.0E-02 ± 2.1E-02	U		⁶⁵ Zn	-2.0E-02 ± 2.0E-02	U
D157 (100-NR-1) Remedial Action)	¹⁴⁴ Ce	4.0E-02 ± 1.5E-01	U	D158 (100-NR-1) Remedial Action)	¹⁴⁴ Ce	-7.6E-02 ± 1.3E-01	U
	⁶⁰ Co	3.7E+00 ± 3.4E-01			⁶⁰ Co	1.7E-01 ± 2.0E-02	
	¹³⁴ Cs	3.1E-02 ± 1.5E-02			¹³⁴ Cs	4.0E-02 ± 1.2E-02	
	¹³⁷ Cs	2.1E+00 ± 3.4E-01			¹³⁷ Cs	2.4E-01 ± 4.3E-02	
	¹⁵² Eu	-4.7E-03 ± 2.8E-02	U		¹⁵² Eu	1.1E-02 ± 2.8E-02	U
	¹⁵⁴ Eu	5.5E-02 ± 2.4E-02			¹⁵⁴ Eu	-2.4E-02 ± 2.4E-02	U
	¹⁵⁵ Eu	7.2E-03 ± 3.5E-02	U		¹⁵⁵ Eu	7.4E-02 ± 5.2E-02	
	²³⁸ Pu	1.1E-02 ± 1.1E-02	U		²³⁸ Pu	-9.5E-03 ± 2.8E-02	U
	^{239/240} Pu	5.0E-02 ± 2.2E-02			^{239/240} Pu	7.6E-03 ± 1.2E-02	U
	¹⁰³ Ru	7.0E-03 ± 1.6E-02	U		¹⁰³ Ru	2.9E-03 ± 1.1E-02	U
	¹⁰⁶ Ru	4.6E-02 ± 8.6E-02	U		¹⁰⁶ Ru	9.0E-02 ± 6.8E-02	U
	¹²⁵ Sb	1.6E-02 ± 2.8E-02	U		¹²⁵ Sb	6.8E-03 ± 1.9E-02	U
	¹¹³ Sn	-1.3E-03 ± 1.3E-02	U		¹¹³ Sn	-5.6E-03 ± 1.0E-02	U
	⁹⁰ Sr	1.2E-01 ± 2.0E-01	U		⁹⁰ Sr	-4.4E-01 ± 4.4E-01	U
	²³⁴ U	1.4E-01 ± 5.0E-02			²³⁴ U	1.1E-01 ± 3.8E-02	
	²³⁵ U	1.4E-02 ± 1.2E-02			²³⁵ U	5.2E-03 ± 7.3E-03	U
	²³⁸ U	1.6E-01 ± 5.4E-02			²³⁸ U	1.1E-01 ± 4.0E-02	
	⁶⁵ Zn	-6.1E-03 ± 3.1E-02	U		⁶⁵ Zn	2.0E-02 ± 2.1E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D159 (100-NR-1) Remedial Action)	¹⁴⁴ Ce	-7.4E-02 ± 1.3E-01	U	D002 (200 West)	¹⁴⁴ Ce	1.3E-01 ± 2.1E-01	U
	⁶⁰ Co	1.7E-01 ± 2.2E-02			⁶⁰ Co	-4.7E-03 ± 6.9E-03	U
	¹³⁴ Cs	5.4E-02 ± 1.8E-02			¹³⁴ Cs	4.6E-02 ± 1.6E-02	
	¹³⁷ Cs	3.5E-01 ± 5.9E-02			¹³⁷ Cs	3.6E+00 ± 6.1E-01	
	¹⁵² Eu	2.2E-02 ± 2.3E-02	U		¹⁵² Eu	1.1E-02 ± 4.9E-02	U
	¹⁵⁴ Eu	-2.4E-02 ± 2.4E-02	U		¹⁵⁴ Eu	-4.0E-02 ± 4.0E-02	U
	¹⁵⁵ Eu	2.7E-02 ± 3.0E-02	U		¹⁵⁵ Eu	3.9E-02 ± 4.7E-02	U
	²³⁸ Pu	3.1E-02 ± 3.7E-02	U		²³⁸ Pu	5.8E-02 ± 2.7E-02	
	^{239/240} Pu	7.1E-02 ± 3.1E-02			^{239/240} Pu	1.7E+00 ± 3.7E-01	
	¹⁰³ Ru	-8.9E-03 ± 1.1E-02	U		¹⁰³ Ru	1.4E-04 ± 1.4E-03	U
	¹⁰⁶ Ru	-1.1E-03 ± 1.1E-02	U		¹⁰⁶ Ru	-6.4E-02 ± 8.1E-02	U
	¹²⁵ Sb	4.9E-03 ± 2.0E-02	U		¹²⁵ Sb	1.3E-02 ± 3.1E-02	U
	¹¹³ Sn	9.8E-04 ± 9.8E-03	U		¹¹³ Sn	-1.0E-02 ± 1.6E-02	U
	⁹⁰ Sr	-1.6E-01 ± 2.6E-01	U		⁹⁰ Sr	5.6E-01 ± 3.9E-01	
	²³⁴ U	1.8E-01 ± 5.6E-02			²³⁴ U	2.0E-01 ± 6.6E-02	
	²³⁵ U	1.1E-02 ± 1.1E-02			²³⁵ U	1.8E-02 ± 1.3E-02	
	²³⁸ U	1.6E-01 ± 5.1E-02			²³⁸ U	1.8E-01 ± 5.9E-02	
	⁶⁵ Zn	2.0E-02 ± 2.3E-02	U		⁶⁵ Zn	2.5E-02 ± 2.0E-02	U
D004 (200 West)	¹⁴⁴ Ce	-9.0E-02 ± 1.2E-01	U	D006 (200 West)	¹⁴⁴ Ce	3.2E-02 ± 1.3E-01	U
	⁶⁰ Co	3.5E-03 ± 6.6E-03	U		⁶⁰ Co	-1.2E-03 ± 6.1E-03	U
	¹³⁴ Cs	3.9E-02 ± 1.5E-02			¹³⁴ Cs	3.5E-02 ± 1.4E-02	
	¹³⁷ Cs	1.3E+00 ± 2.0E-01			¹³⁷ Cs	4.6E-01 ± 7.4E-02	
	¹⁵² Eu	1.2E-03 ± 1.2E-02	U		¹⁵² Eu	2.5E-03 ± 2.2E-02	U
	¹⁵⁴ Eu	-5.3E-03 ± 2.1E-02	U		¹⁵⁴ Eu	3.8E-04 ± 3.8E-03	U
	¹⁵⁵ Eu	2.9E-02 ± 2.9E-02	U		¹⁵⁵ Eu	4.6E-02 ± 4.2E-02	U
	²³⁸ Pu	4.3E-03 ± 8.6E-03	U		²³⁸ Pu	-4.3E-03 ± 1.1E-02	U
	^{239/240} Pu	5.5E-02 ± 2.5E-02			^{239/240} Pu	1.3E-01 ± 4.4E-02	
	¹⁰³ Ru	1.4E-03 ± 1.1E-02	U		¹⁰³ Ru	-9.1E-03 ± 1.1E-02	U
	¹⁰⁶ Ru	-2.7E-02 ± 5.6E-02	U		¹⁰⁶ Ru	5.3E-02 ± 6.0E-02	U
	¹²⁵ Sb	-7.8E-03 ± 2.0E-02	U		¹²⁵ Sb	1.1E-02 ± 1.9E-02	U
	¹¹³ Sn	-6.8E-04 ± 6.8E-03	U		¹¹³ Sn	-2.3E-04 ± 2.3E-03	U
	⁹⁰ Sr	-1.4E-01 ± 2.0E-01	U		⁹⁰ Sr	-1.3E-01 ± 2.1E-01	U
	²³⁴ U	2.4E-01 ± 7.7E-02			²³⁴ U	1.5E-01 ± 5.1E-02	
	²³⁵ U	1.6E-02 ± 1.3E-02			²³⁵ U	1.6E-02 ± 1.3E-02	
	²³⁸ U	2.1E-01 ± 6.7E-02			²³⁸ U	1.7E-01 ± 5.6E-02	
	⁶⁵ Zn	1.8E-04 ± 1.8E-03	U		⁶⁵ Zn	6.9E-04 ± 6.9E-03	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D008 (200 West)	¹⁴⁴ Ce	-5.8E-02 ± 1.2E-01	U	D010 (200 West)	¹⁴⁴ Ce	1.6E-02 ± 3.5E-02	U
	⁶⁰ Co	-3.9E-03 ± 5.9E-03	U		⁶⁰ Co	-5.1E-04 ± 2.5E-03	U
	¹³⁴ Cs	3.4E-02 ± 9.9E-03			¹³⁴ Cs	1.3E-02 ± 4.1E-03	
	¹³⁷ Cs	9.4E-02 ± 1.8E-02			¹³⁷ Cs	4.4E-01 ± 7.6E-02	
	¹⁵² Eu	-2.5E-02 ± 2.5E-02	U		¹⁵² Eu	-5.9E-03 ± 7.7E-03	U
	¹⁵⁴ Eu	-4.6E-03 ± 1.9E-02	U		¹⁵⁴ Eu	-9.2E-03 ± 9.2E-03	U
	¹⁵⁵ Eu	1.8E-02 ± 2.8E-02	U		¹⁵⁵ Eu	7.7E-03 ± 9.5E-03	U
	²³⁸ Pu	-1.4E-03 ± 4.9E-03	U		²³⁸ Pu	7.0E-03 ± 8.4E-03	
	^{239/240} Pu	6.9E-03 ± 8.3E-03	U		^{239/240} Pu	1.6E-01 ± 5.1E-02	
	¹⁰³ Ru	-4.4E-03 ± 9.5E-03	U		¹⁰³ Ru	-1.4E-03 ± 3.7E-03	U
	¹⁰⁶ Ru	-1.3E-03 ± 1.3E-02	U		¹⁰⁶ Ru	1.2E-02 ± 2.2E-02	U
	¹²⁵ Sb	-3.8E-03 ± 1.7E-02	U		¹²⁵ Sb	-1.8E-03 ± 6.4E-03	U
	¹¹³ Sn	3.9E-03 ± 9.6E-03	U		¹¹³ Sn	-9.2E-04 ± 3.3E-03	U
	⁹⁰ Sr	-3.9E-01 ± 4.3E-01	U		⁹⁰ Sr	-2.5E-01 ± 3.0E-01	U
	²³⁴ U	1.3E-01 ± 4.2E-02			²³⁴ U	1.9E-01 ± 6.5E-02	
	²³⁵ U	1.3E-02 ± 1.1E-02			²³⁵ U	1.1E-02 ± 1.5E-02	
	²³⁸ U	1.3E-01 ± 4.0E-02			²³⁸ U	1.6E-01 ± 5.8E-02	
	⁶⁵ Zn	-7.8E-03 ± 2.7E-02	U		⁶⁵ Zn	5.1E-03 ± 7.1E-03	U
D012 (200 West)	¹⁴⁴ Ce	9.5E-02 ± 1.8E-01	U	D014 (200 West)	¹⁴⁴ Ce	-1.7E-02 ± 1.1E-01	U
	⁶⁰ Co	8.8E-03 ± 9.7E-03	U		⁶⁰ Co	1.2E-03 ± 6.6E-03	U
	¹³⁴ Cs	4.7E-02 ± 1.6E-02			¹³⁴ Cs	2.5E-02 ± 9.5E-03	
	¹³⁷ Cs	2.0E+00 ± 3.3E-01			¹³⁷ Cs	8.8E-03 ± 6.6E-03	
	¹⁵² Eu	-4.6E-03 ± 3.7E-02	U		¹⁵² Eu	5.0E-03 ± 2.1E-02	U
	¹⁵⁴ Eu	-1.0E-02 ± 3.1E-02	U		¹⁵⁴ Eu	5.2E-04 ± 5.2E-03	U
	¹⁵⁵ Eu	6.2E-02 ± 5.1E-02	U		¹⁵⁵ Eu	3.4E-02 ± 2.7E-02	U
	²³⁸ Pu	1.3E-02 ± 1.3E-02	U		²³⁸ Pu	-8.4E-03 ± 8.4E-03	U
	^{239/240} Pu	7.8E-02 ± 3.0E-02			^{239/240} Pu	6.3E-03 ± 7.6E-03	
	¹⁰³ Ru	2.1E-02 ± 1.9E-02	U		¹⁰³ Ru	-7.0E-04 ± 7.0E-03	U
	¹⁰⁶ Ru	2.1E-02 ± 9.4E-02	U		¹⁰⁶ Ru	8.8E-03 ± 5.6E-02	U
	¹²⁵ Sb	-1.4E-03 ± 1.4E-02	U		¹²⁵ Sb	4.0E-03 ± 1.7E-02	U
	¹¹³ Sn	4.9E-04 ± 4.9E-03	U		¹¹³ Sn	-3.5E-03 ± 9.2E-03	U
	⁹⁰ Sr	6.6E-02 ± 4.0E-01	U		⁹⁰ Sr	3.2E-01 ± 3.0E-01	U
	²³⁴ U	1.7E-01 ± 5.8E-02			²³⁴ U	1.5E-01 ± 5.3E-02	
	²³⁵ U	1.2E-02 ± 1.1E-02			²³⁵ U	1.3E-02 ± 1.1E-02	
	²³⁸ U	1.2E-01 ± 4.4E-02			²³⁸ U	1.4E-01 ± 4.9E-02	
	⁶⁵ Zn	5.1E-02 ± 3.0E-02			⁶⁵ Zn	-1.1E-02 ± 1.8E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D016 (200 West)	¹⁴⁴ Ce	2.1E-02 ± 1.4E-01	U	D018 (200 West)	¹⁴⁴ Ce	-9.0E-02 ± 1.7E-01	U
	⁶⁰ Co	1.6E-03 ± 6.5E-03	U		⁶⁰ Co	-2.2E-03 ± 5.6E-03	U
	¹³⁴ Cs	3.7E-02 ± 1.3E-02			¹³⁴ Cs	3.7E-02 ± 1.3E-02	
	¹³⁷ Cs	1.4E+00 ± 2.2E-01			¹³⁷ Cs	2.5E+00 ± 4.0E-01	
	¹⁵² Eu	-1.6E-02 ± 2.3E-02	U		¹⁵² Eu	-2.1E-02 ± 2.2E-02	U
	¹⁵⁴ Eu	-1.5E-02 ± 2.4E-02	U		¹⁵⁴ Eu	-1.0E-02 ± 2.1E-02	U
	¹⁵⁵ Eu	7.1E-02 ± 5.0E-02			¹⁵⁵ Eu	2.5E-02 ± 3.1E-02	U
	²³⁸ Pu	1.0E-02 ± 1.8E-02	U		²³⁸ Pu	2.0E-03 ± 9.0E-03	U
	^{239/240} Pu	3.6E-02 ± 2.1E-02			^{239/240} Pu	1.2E-01 ± 4.1E-02	
	¹⁰³ Ru	-5.0E-03 ± 1.2E-02	U		¹⁰³ Ru	-2.8E-03 ± 1.2E-02	U
	¹⁰⁶ Ru	-1.6E-02 ± 6.4E-02	U		¹⁰⁶ Ru	-2.7E-02 ± 5.9E-02	U
	¹²⁵ Sb	3.0E-03 ± 2.2E-02	U		¹²⁵ Sb	1.3E-02 ± 2.2E-02	U
	¹¹³ Sn	-3.7E-03 ± 1.2E-02	U		¹¹³ Sn	-1.2E-02 ± 1.2E-02	U
	⁹⁰ Sr	-8.9E-02 ± 2.9E-01	U		⁹⁰ Sr	6.6E-01 ± 3.4E-01	
	²³⁴ U	1.8E-01 ± 6.1E-02			²³⁴ U	1.4E-01 ± 4.9E-02	
	²³⁵ U	1.1E-02 ± 1.2E-02	U		²³⁵ U	1.3E-02 ± 1.1E-02	
	²³⁸ U	1.7E-01 ± 5.6E-02			²³⁸ U	1.4E-01 ± 4.9E-02	
	⁶⁵ Zn	6.2E-03 ± 1.9E-02	U		⁶⁵ Zn	-8.0E-03 ± 1.7E-02	U
D020 (200 West)	¹⁴⁴ Ce	8.4E-03 ± 8.4E-02	U	D022 (200 West)	¹⁴⁴ Ce	-3.2E-02 ± 2.2E-01	U
	⁶⁰ Co	-5.7E-03 ± 9.0E-03	U		⁶⁰ Co	-1.6E-04 ± 1.6E-03	U
	¹³⁴ Cs	4.9E-02 ± 1.8E-02			¹³⁴ Cs	3.9E-02 ± 1.4E-02	
	¹³⁷ Cs	2.6E-01 ± 5.0E-02			¹³⁷ Cs	1.6E+00 ± 2.8E-01	
	¹⁵² Eu	-5.9E-03 ± 3.9E-02	U		¹⁵² Eu	1.7E-02 ± 5.6E-02	U
	¹⁵⁴ Eu	-2.4E-02 ± 2.8E-02	U		¹⁵⁴ Eu	-3.6E-02 ± 3.6E-02	U
	¹⁵⁵ Eu	1.8E-02 ± 3.9E-02	U		¹⁵⁵ Eu	6.5E-04 ± 6.5E-03	U
	²³⁸ Pu	2.4E-03 ± 2.4E-02	U		²³⁸ Pu	2.4E-02 ± 1.9E-02	
	^{239/240} Pu	3.2E-02 ± 1.9E-02			^{239/240} Pu	5.7E-02 ± 2.6E-02	
	¹⁰³ Ru	-5.2E-03 ± 1.3E-02	U		¹⁰³ Ru	-2.9E-03 ± 1.5E-02	U
	¹⁰⁶ Ru	1.7E-02 ± 8.2E-02	U		¹⁰⁶ Ru	-2.1E-02 ± 8.5E-02	U
	¹²⁵ Sb	1.5E-02 ± 2.5E-02	U		¹²⁵ Sb	3.0E-02 ± 3.1E-02	U
	¹¹³ Sn	3.0E-03 ± 1.3E-02	U		¹¹³ Sn	-8.1E-03 ± 1.6E-02	U
	⁹⁰ Sr	-1.3E-01 ± 2.3E-01	U		⁹⁰ Sr	-2.5E-01 ± 2.6E-01	U
	²³⁴ U	1.4E-01 ± 5.2E-02			²³⁴ U	1.6E-01 ± 6.1E-02	
	²³⁵ U	1.9E-02 ± 1.5E-02			²³⁵ U	6.3E-03 ± 8.8E-03	U
	²³⁸ U	1.3E-01 ± 4.9E-02			²³⁸ U	1.7E-01 ± 6.1E-02	
	⁶⁵ Zn	-7.0E-03 ± 2.5E-02	U		⁶⁵ Zn	4.2E-02 ± 2.5E-02	

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D026 (200 West)	¹⁴⁴ Ce	-6.9E-02 ± 1.2E-01	U	D028 (200 West)	¹⁴⁴ Ce	1.1E-01 ± 1.4E-01	U
	⁶⁰ Co	1.6E-03 ± 6.0E-03	U		⁶⁰ Co	1.5E-03 ± 7.6E-03	U
	¹³⁴ Cs	3.2E-02 ± 1.3E-02			¹³⁴ Cs	3.5E-02 ± 1.0E-02	
	¹³⁷ Cs	9.7E-01 ± 1.6E-01			¹³⁷ Cs	1.1E+00 ± 1.9E-01	
	¹⁵² Eu	-9.8E-03 ± 2.2E-02	U		¹⁵² Eu	2.0E-03 ± 2.0E-02	U
	¹⁵⁴ Eu	-5.3E-03 ± 2.2E-02	U		¹⁵⁴ Eu	-1.2E-03 ± 1.2E-02	U
	¹⁵⁵ Eu	4.0E-02 ± 4.1E-02	U		¹⁵⁵ Eu	4.9E-02 ± 3.8E-02	U
	²³⁸ Pu	7.5E-03 ± 1.1E-02	U		²³⁸ Pu	5.3E-03 ± 2.9E-02	U
	^{239/240} Pu	1.3E+00 ± 3.0E-01			^{239/240} Pu	2.4E-02 ± 1.9E-02	
	¹⁰³ Ru	-7.7E-03 ± 9.8E-03	U		¹⁰³ Ru	-8.0E-03 ± 1.1E-02	U
	¹⁰⁶ Ru	-1.4E-03 ± 1.4E-02	U		¹⁰⁶ Ru	-9.8E-03 ± 6.7E-02	U
	¹²⁵ Sb	-1.0E-03 ± 1.0E-02	U		¹²⁵ Sb	1.1E-02 ± 2.1E-02	U
	¹¹³ Sn	-2.9E-03 ± 1.0E-02	U		¹¹³ Sn	-6.8E-03 ± 1.1E-02	U
	⁹⁰ Sr	4.9E-01 ± 2.5E-01			⁹⁰ Sr	1.6E-01 ± 2.4E-01	
	²³⁴ U	1.6E-01 ± 5.8E-02			²³⁴ U	1.6E-01 ± 5.4E-02	
	²³⁵ U	-2.4E-03 ± 4.8E-03	U		²³⁵ U	2.2E-03 ± 9.9E-03	U
	²³⁸ U	1.8E-01 ± 6.1E-02			²³⁸ U	1.8E-01 ± 5.9E-02	
	⁶⁵ Zn	-4.4E-03 ± 1.7E-02	U		⁶⁵ Zn	2.3E-02 ± 2.1E-02	U
D030 (200 West)	¹⁴⁴ Ce	-6.5E-02 ± 2.0E-01	U	D032 (200 West)	¹⁴⁴ Ce	5.7E-03 ± 5.7E-02	U
	⁶⁰ Co	2.5E-03 ± 9.3E-03	U		⁶⁰ Co	-1.1E-03 ± 9.2E-03	U
	¹³⁴ Cs	3.4E-02 ± 1.2E-02			¹³⁴ Cs	5.4E-02 ± 2.3E-02	
	¹³⁷ Cs	1.0E+00 ± 1.7E-01			¹³⁷ Cs	1.9E+00 ± 2.9E-01	
	¹⁵² Eu	-2.0E-02 ± 5.6E-02	U		¹⁵² Eu	2.2E-02 ± 3.7E-02	U
	¹⁵⁴ Eu	-1.2E-02 ± 2.6E-02	U		¹⁵⁴ Eu	-3.6E-02 ± 3.6E-02	U
	¹⁵⁵ Eu	-3.5E-02 ± 4.6E-02	U		¹⁵⁵ Eu	3.3E-02 ± 3.9E-02	U
	²³⁸ Pu	1.0E-02 ± 1.8E-02	U		²³⁸ Pu	7.1E-03 ± 1.3E-02	U
	^{239/240} Pu	1.8E-02 ± 1.4E-02			^{239/240} Pu	8.4E-01 ± 2.0E-01	
	¹⁰³ Ru	-4.7E-03 ± 1.3E-02	U		¹⁰³ Ru	1.1E-02 ± 1.7E-02	U
	¹⁰⁶ Ru	-6.6E-02 ± 7.9E-02	U		¹⁰⁶ Ru	-2.6E-02 ± 9.4E-02	U
	¹²⁵ Sb	8.0E-03 ± 2.7E-02	U		¹²⁵ Sb	1.3E-02 ± 3.3E-02	U
	¹¹³ Sn	1.2E-02 ± 1.4E-02	U		¹¹³ Sn	-1.6E-03 ± 1.6E-02	U
	⁹⁰ Sr	-3.0E-02 ± 2.4E-01	U		⁹⁰ Sr	-1.9E-01 ± 3.4E-01	U
	²³⁴ U	1.1E-01 ± 4.2E-02			²³⁴ U	1.8E-01 ± 5.9E-02	
	²³⁵ U	1.6E-02 ± 1.3E-02			²³⁵ U	1.1E-02 ± 1.2E-02	U
	²³⁸ U	1.5E-01 ± 5.4E-02			²³⁸ U	1.7E-01 ± 5.8E-02	
	⁶⁵ Zn	1.8E-02 ± 2.3E-02	U		⁶⁵ Zn	-1.4E-02 ± 2.6E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D034 (200 West)	¹⁴⁴ Ce	-3.2E-01 ± 3.2E-01	U	D036 (200 West)	¹⁴⁴ Ce	-4.9E-02 ± 1.2E-01	U
	⁶⁰ Co	5.2E-03 ± 6.7E-03	U		⁶⁰ Co	-5.5E-03 ± 5.9E-03	U
	¹³⁴ Cs	3.4E-02 ± 1.2E-02			¹³⁴ Cs	3.5E-02 ± 1.2E-02	
	¹³⁷ Cs	8.8E+00 ± 1.5E+00			¹³⁷ Cs	1.8E+00 ± 2.9E-01	
	¹⁵² Eu	-7.4E-03 ± 6.6E-02	U		¹⁵² Eu	-2.7E-02 ± 2.7E-02	U
	¹⁵⁴ Eu	-2.7E-02 ± 2.7E-02	U		¹⁵⁴ Eu	-1.1E-02 ± 2.2E-02	U
	¹⁵⁵ Eu	-5.3E-03 ± 5.3E-02	U		¹⁵⁵ Eu	4.7E-02 ± 4.3E-02	U
	²³⁸ Pu	-1.9E-02 ± 2.5E-02	U		²³⁸ Pu	-1.2E-02 ± 3.1E-02	U
	^{239/240} Pu	1.0E-01 ± 3.8E-02			^{239/240} Pu	1.4E-02 ± 1.2E-02	
	¹⁰³ Ru	-1.1E-03 ± 1.1E-02	U		¹⁰³ Ru	7.0E-03 ± 8.4E-03	U
	¹⁰⁶ Ru	2.9E-02 ± 9.9E-02	U		¹⁰⁶ Ru	-1.6E-02 ± 5.7E-02	U
	¹²⁵ Sb	2.1E-03 ± 2.1E-02	U		¹²⁵ Sb	-3.7E-03 ± 2.3E-02	U
	¹¹³ Sn	2.6E-03 ± 1.9E-02	U		¹¹³ Sn	1.8E-03 ± 1.0E-02	U
	⁹⁰ Sr	1.2E+00 ± 3.6E-01			⁹⁰ Sr	-2.8E-01 ± 2.8E-01	
	²³⁴ U	1.4E-01 ± 4.9E-02			²³⁴ U	1.2E-01 ± 4.2E-02	
	²³⁵ U	1.4E-02 ± 1.2E-02	U		²³⁵ U	7.1E-03 ± 8.5E-03	U
	²³⁸ U	1.4E-01 ± 4.8E-02			²³⁸ U	1.2E-01 ± 4.2E-02	
	⁶⁵ Zn	3.2E-02 ± 2.0E-02			⁶⁵ Zn	-4.7E-04 ± 4.7E-03	U
D038 (200 West)	¹⁴⁴ Ce	-5.0E-02 ± 1.4E-01	U	D040 (200 West)	¹⁴⁴ Ce	-1.4E-01 ± 1.8E-01	U
	⁶⁰ Co	-9.6E-04 ± 6.7E-03	U		⁶⁰ Co	5.4E-03 ± 1.1E-02	U
	¹³⁴ Cs	2.4E-02 ± 9.8E-03			¹³⁴ Cs	5.8E-02 ± 2.4E-02	
	¹³⁷ Cs	6.1E-01 ± 1.0E-01			¹³⁷ Cs	3.4E-01 ± 5.8E-02	
	¹⁵² Eu	-1.7E-02 ± 2.5E-02	U		¹⁵² Eu	1.9E-02 ± 3.8E-02	U
	¹⁵⁴ Eu	-1.8E-02 ± 2.2E-02	U		¹⁵⁴ Eu	1.0E-02 ± 3.4E-02	U
	¹⁵⁵ Eu	3.7E-02 ± 3.6E-02	U		¹⁵⁵ Eu	7.9E-02 ± 4.6E-02	
	²³⁸ Pu	1.6E-02 ± 1.9E-02	U		²³⁸ Pu	1.6E-02 ± 1.9E-02	
	^{239/240} Pu	6.1E-02 ± 2.8E-02			^{239/240} Pu	9.1E-03 ± 1.1E-02	
	¹⁰³ Ru	2.6E-03 ± 9.7E-03	U		¹⁰³ Ru	-6.9E-03 ± 1.2E-02	U
	¹⁰⁶ Ru	1.6E-02 ± 6.1E-02	U		¹⁰⁶ Ru	-1.4E-02 ± 9.6E-02	U
	¹²⁵ Sb	-1.1E-02 ± 1.9E-02	U		¹²⁵ Sb	1.5E-02 ± 3.2E-02	U
	¹¹³ Sn	2.9E-03 ± 1.0E-02	U		¹¹³ Sn	-3.8E-03 ± 1.5E-02	U
	⁹⁰ Sr	3.2E-02 ± 2.7E-01	U		⁹⁰ Sr	-7.1E-02 ± 2.9E-01	U
	²³⁴ U	1.2E-01 ± 3.7E-02			²³⁴ U	2.1E-01 ± 6.5E-02	
	²³⁵ U	3.6E-03 ± 5.0E-03	U		²³⁵ U	9.4E-03 ± 1.1E-02	U
	²³⁸ U	1.5E-01 ± 4.4E-02			²³⁸ U	2.5E-01 ± 7.5E-02	
	⁶⁵ Zn	4.9E-03 ± 1.9E-02	U		⁶⁵ Zn	3.9E-04 ± 3.9E-03	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D042 (200 West)	¹⁴⁴ Ce	6.6E-03 ± 6.6E-02	U	D044 (200 West)	¹⁴⁴ Ce	3.2E-02 ± 1.8E-01	U
	⁶⁰ Co	-3.6E-03 ± 6.3E-03	U		⁶⁰ Co	-1.1E-02 ± 8.2E-03	U
	¹³⁴ Cs	4.5E-02 ± 1.3E-02			¹³⁴ Cs	3.9E-02 ± 1.3E-02	
	¹³⁷ Cs	5.5E-01 ± 8.9E-02			¹³⁷ Cs	3.3E+00 ± 6.0E-01	
	¹⁵² Eu	7.5E-03 ± 2.1E-02	U		¹⁵² Eu	-1.6E-02 ± 3.3E-02	U
	¹⁵⁴ Eu	-8.2E-03 ± 2.3E-02	U		¹⁵⁴ Eu	-2.0E-02 ± 2.5E-02	U
	¹⁵⁵ Eu	7.1E-02 ± 4.5E-02			¹⁵⁵ Eu	2.6E-02 ± 4.0E-02	U
	²³⁸ Pu	1.6E-02 ± 3.2E-02	U		²³⁸ Pu	4.5E-03 ± 3.5E-02	U
	^{239/240} Pu	8.3E-02 ± 3.6E-02			^{239/240} Pu	1.0E+00 ± 2.7E-01	
	¹⁰³ Ru	-1.9E-03 ± 7.4E-03	U		¹⁰³ Ru	4.7E-03 ± 1.1E-02	U
	¹⁰⁶ Ru	-1.0E-03 ± 1.0E-02	U		¹⁰⁶ Ru	-8.9E-03 ± 8.4E-02	U
	¹²⁵ Sb	5.7E-03 ± 1.9E-02	U		¹²⁵ Sb	-5.0E-03 ± 3.0E-02	U
	¹¹³ Sn	-2.1E-03 ± 8.9E-03	U		¹¹³ Sn	-7.1E-03 ± 1.4E-02	U
	⁹⁰ Sr	1.3E-01 ± 2.7E-01	U		⁹⁰ Sr	-1.4E-01 ± 2.4E-01	U
	²³⁴ U	1.6E-01 ± 5.3E-02			²³⁴ U	2.4E-01 ± 7.4E-02	
	²³⁵ U	3.8E-03 ± 7.6E-03	U		²³⁵ U	2.3E-02 ± 1.5E-02	
	²³⁸ U	2.0E-01 ± 6.4E-02			²³⁸ U	2.5E-01 ± 7.8E-02	
	⁶⁵ Zn	-7.6E-03 ± 1.7E-02	U		⁶⁵ Zn	-1.0E-02 ± 2.1E-02	U
D046 (200 West)	¹⁴⁴ Ce	-3.2E-02 ± 1.1E-01	U	D048 (200 West)	¹⁴⁴ Ce	4.9E-02 ± 1.5E-01	U
	⁶⁰ Co	2.9E-03 ± 5.6E-03	U		⁶⁰ Co	-2.9E-03 ± 7.2E-03	U
	¹³⁴ Cs	3.1E-02 ± 9.3E-03			¹³⁴ Cs	4.1E-02 ± 1.1E-02	
	¹³⁷ Cs	9.1E-01 ± 1.5E-01			¹³⁷ Cs	2.2E+00 ± 3.7E-01	
	¹⁵² Eu	4.4E-03 ± 2.1E-02	U		¹⁵² Eu	-2.4E-02 ± 2.7E-02	U
	¹⁵⁴ Eu	7.9E-03 ± 2.0E-02	U		¹⁵⁴ Eu	-4.4E-02 ± 4.4E-02	U
	¹⁵⁵ Eu	5.5E-02 ± 4.0E-02			¹⁵⁵ Eu	3.6E-02 ± 3.8E-02	U
	²³⁸ Pu	7.1E-03 ± 4.5E-02	U		²³⁸ Pu	5.1E-03 ± 4.4E-02	U
	^{239/240} Pu	5.9E-02 ± 2.9E-02			^{239/240} Pu	9.5E-02 ± 4.3E-02	
	¹⁰³ Ru	-5.6E-03 ± 7.8E-03	U		¹⁰³ Ru	-8.6E-03 ± 1.2E-02	U
	¹⁰⁶ Ru	2.8E-02 ± 5.2E-02	U		¹⁰⁶ Ru	-5.9E-02 ± 7.5E-02	U
	¹²⁵ Sb	1.0E-02 ± 1.9E-02	U		¹²⁵ Sb	-2.2E-03 ± 2.2E-02	U
	¹¹³ Sn	2.6E-03 ± 9.1E-03	U		¹¹³ Sn	1.5E-02 ± 1.4E-02	U
	⁹⁰ Sr	-5.8E-02 ± 2.3E-01	U		⁹⁰ Sr	1.5E-01 ± 3.0E-01	U
	²³⁴ U	1.6E-01 ± 5.3E-02			²³⁴ U	1.7E-01 ± 5.9E-02	
	²³⁵ U	1.7E-02 ± 1.3E-02			²³⁵ U	1.0E-02 ± 1.0E-02	
	²³⁸ U	1.5E-01 ± 4.9E-02			²³⁸ U	2.2E-01 ± 7.3E-02	
	⁶⁵ Zn	-8.7E-03 ± 1.7E-02	U		⁶⁵ Zn	1.0E-02 ± 2.0E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D050 (200 West)	¹⁴⁴ Ce	-4.4E-02 ± 1.3E-01	U	D052 (200 West)	¹⁴⁴ Ce	-1.8E-02 ± 1.7E-01	U
	⁶⁰ Co	2.0E-02 ± 9.1E-03			⁶⁰ Co	-3.0E-03 ± 6.8E-03	U
	¹³⁴ Cs	4.0E-02 ± 1.5E-02			¹³⁴ Cs	3.2E-02 ± 1.3E-02	
	¹³⁷ Cs	1.7E-01 ± 3.3E-02			¹³⁷ Cs	1.7E+00 ± 2.9E-01	
	¹⁵² Eu	-1.7E-02 ± 2.4E-02	U		¹⁵² Eu	-1.3E-02 ± 4.4E-02	U
	¹⁵⁴ Eu	2.1E-02 ± 2.6E-02	U		¹⁵⁴ Eu	-2.3E-02 ± 2.3E-02	U
	¹⁵⁵ Eu	2.4E-02 ± 2.8E-02	U		¹⁵⁵ Eu	5.7E-02 ± 4.8E-02	U
	²³⁸ Pu	2.4E-03 ± 2.4E-03	U		²³⁸ Pu	3.0E-03 ± 3.0E-02	U
	^{239/240} Pu	2.6E-02 ± 1.8E-02			^{239/240} Pu	1.0E-01 ± 4.5E-02	
	¹⁰³ Ru	-1.5E-03 ± 1.0E-02	U		¹⁰³ Ru	-6.4E-04 ± 6.4E-03	U
	¹⁰⁶ Ru	-4.1E-02 ± 6.3E-02	U		¹⁰⁶ Ru	2.3E-02 ± 7.0E-02	U
	¹²⁵ Sb	-1.1E-02 ± 2.0E-02	U		¹²⁵ Sb	-1.9E-03 ± 1.9E-02	U
	¹¹³ Sn	-1.7E-03 ± 9.8E-03	U		¹¹³ Sn	1.5E-03 ± 1.3E-02	U
	⁹⁰ Sr	-3.4E-01 ± 3.4E-01	U		⁹⁰ Sr	-1.6E-01 ± 2.6E-01	U
	²³⁴ U	1.3E-01 ± 4.7E-02			²³⁴ U	1.7E-01 ± 5.9E-02	
	²³⁵ U	1.7E-02 ± 1.4E-02			²³⁵ U	1.5E-02 ± 1.5E-02	
	²³⁸ U	1.7E-01 ± 5.8E-02			²³⁸ U	1.6E-01 ± 5.6E-02	
	⁶⁵ Zn	2.9E-02 ± 2.3E-02	U		⁶⁵ Zn	1.7E-02 ± 1.9E-02	U
D054 (200 East)	¹⁴⁴ Ce	-7.3E-02 ± 1.7E-01	U	D056 (200 East)	¹⁴⁴ Ce	-9.3E-02 ± 2.7E-01	U
	⁶⁰ Co	-2.7E-03 ± 6.6E-03	U		⁶⁰ Co	9.9E-03 ± 7.6E-03	U
	¹³⁴ Cs	4.1E-02 ± 1.1E-02			¹³⁴ Cs	4.6E-02 ± 1.5E-02	
	¹³⁷ Cs	8.8E+00 ± 1.4E+00			¹³⁷ Cs	1.7E+01 ± 3.0E+00	
	¹⁵² Eu	-8.3E-03 ± 3.3E-02	U		¹⁵² Eu	-3.7E-02 ± 8.4E-02	U
	¹⁵⁴ Eu	-2.0E-02 ± 2.2E-02	U		¹⁵⁴ Eu	2.4E-03 ± 2.4E-02	U
	¹⁵⁵ Eu	2.8E-02 ± 4.0E-02	U		¹⁵⁵ Eu	-2.3E-03 ± 2.3E-02	U
	²³⁸ Pu	3.4E-02 ± 3.7E-02	U		²³⁸ Pu	-1.7E-02 ± 4.4E-02	U
	^{239/240} Pu	3.6E-02 ± 2.6E-02			^{239/240} Pu	2.8E-03 ± 1.7E-02	
	¹⁰³ Ru	7.2E-03 ± 1.4E-02	U		¹⁰³ Ru	-9.7E-03 ± 2.2E-02	U
	¹⁰⁶ Ru	-5.6E-02 ± 8.1E-02	U		¹⁰⁶ Ru	-5.1E-02 ± 1.2E-01	U
	¹²⁵ Sb	-2.2E-02 ± 3.6E-02	U		¹²⁵ Sb	4.9E-02 ± 5.6E-02	U
	¹¹³ Sn	-6.1E-03 ± 1.6E-02	U		¹¹³ Sn	-1.1E-02 ± 2.6E-02	U
	⁹⁰ Sr	4.0E-01 ± 2.8E-01			⁹⁰ Sr	5.6E-01 ± 3.4E-01	
	²³⁴ U	1.3E-01 ± 4.7E-02			²³⁴ U	1.2E-01 ± 4.4E-02	
	²³⁵ U	6.6E-03 ± 7.9E-03			²³⁵ U	9.1E-03 ± 9.1E-03	
	²³⁸ U	1.4E-01 ± 4.9E-02			²³⁸ U	1.5E-01 ± 5.3E-02	
	⁶⁵ Zn	-7.5E-03 ± 1.8E-02	U		⁶⁵ Zn	2.2E-02 ± 2.0E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D058 (200 East)	¹⁴⁴ Ce	-8.1E-02 ± 2.5E-01	U	D060 (200 East)	¹⁴⁴ Ce	5.0E-02 ± 1.3E-01	U
	⁶⁰ Co	-2.6E-03 ± 6.5E-03	U		⁶⁰ Co	-2.9E-05 ± 2.9E-04	U
	¹³⁴ Cs	3.1E-02 ± 9.7E-03			¹³⁴ Cs	4.1E-02 ± 1.1E-02	
	¹³⁷ Cs	1.1E+01 ± 1.9E+00			¹³⁷ Cs	7.8E-01 ± 1.3E-01	
	¹⁵² Eu	-4.7E-02 ± 6.9E-02	U		¹⁵² Eu	-2.1E-02 ± 2.1E-02	U
	¹⁵⁴ Eu	-6.0E-03 ± 2.1E-02	U		¹⁵⁴ Eu	3.2E-03 ± 2.3E-02	U
	¹⁵⁵ Eu	-3.2E-02 ± 5.7E-02	U		¹⁵⁵ Eu	4.2E-02 ± 3.8E-02	U
	²³⁸ Pu	-2.4E-03 ± 2.4E-02	U		²³⁸ Pu	3.4E-02 ± 4.4E-02	U
	^{239/240} Pu	2.7E-02 ± 2.3E-02	U		^{239/240} Pu	1.1E-02 ± 1.3E-02	U
	¹⁰³ Ru	-8.7E-03 ± 1.7E-02	U		¹⁰³ Ru	-3.5E-03 ± 8.0E-03	U
	¹⁰⁶ Ru	-1.5E-02 ± 9.9E-02	U		¹⁰⁶ Ru	3.2E-02 ± 5.5E-02	U
	¹²⁵ Sb	-1.8E-02 ± 4.5E-02	U		¹²⁵ Sb	-9.6E-04 ± 9.6E-03	U
	¹¹³ Sn	-2.0E-02 ± 2.1E-02	U		¹¹³ Sn	-1.2E-03 ± 9.4E-03	U
	⁹⁰ Sr	1.1E+00 ± 3.3E-01			⁹⁰ Sr	-2.7E-01 ± 2.7E-01	
	²³⁴ U	2.0E-01 ± 6.6E-02			²³⁴ U	1.3E-01 ± 4.7E-02	
	²³⁵ U	9.1E-03 ± 1.1E-02	U		²³⁵ U	8.8E-03 ± 1.2E-02	U
	²³⁸ U	1.9E-01 ± 6.3E-02			²³⁸ U	1.2E-01 ± 4.4E-02	
	⁶⁵ Zn	6.8E-03 ± 1.9E-02	U		⁶⁵ Zn	-1.8E-02 ± 1.8E-02	U
D062 (200 East)	¹⁴⁴ Ce	1.0E-01 ± 1.1E-01	U	D064 (200 East)	¹⁴⁴ Ce	7.2E-02 ± 1.5E-01	U
	⁶⁰ Co	-1.4E-03 ± 5.8E-03	U		⁶⁰ Co	6.0E-03 ± 7.2E-03	U
	¹³⁴ Cs	3.6E-02 ± 9.6E-03			¹³⁴ Cs	3.3E-02 ± 1.2E-02	
	¹³⁷ Cs	1.0E+00 ± 1.6E-01			¹³⁷ Cs	1.6E+00 ± 3.0E-01	
	¹⁵² Eu	-8.2E-03 ± 2.0E-02	U		¹⁵² Eu	-2.8E-02 ± 2.8E-02	U
	¹⁵⁴ Eu	-2.3E-02 ± 2.3E-02	U		¹⁵⁴ Eu	4.6E-04 ± 4.6E-03	U
	¹⁵⁵ Eu	4.5E-02 ± 3.1E-02	U		¹⁵⁵ Eu	3.6E-02 ± 3.5E-02	U
	²³⁸ Pu	2.8E-02 ± 5.3E-02	U		²³⁸ Pu	-2.0E-03 ± 2.0E-02	U
	^{239/240} Pu	2.5E-02 ± 2.4E-02	U		^{239/240} Pu	6.1E-03 ± 1.5E-02	U
	¹⁰³ Ru	-3.1E-03 ± 7.6E-03	U		¹⁰³ Ru	-8.1E-03 ± 9.7E-03	U
	¹⁰⁶ Ru	9.3E-05 ± 9.3E-04	U		¹⁰⁶ Ru	2.3E-02 ± 7.0E-02	U
	¹²⁵ Sb	2.4E-02 ± 1.8E-02	U		¹²⁵ Sb	2.0E-02 ± 2.4E-02	U
	¹¹³ Sn	-9.1E-03 ± 9.1E-03	U		¹¹³ Sn	-1.2E-02 ± 1.2E-02	U
	⁹⁰ Sr	3.4E-01 ± 2.8E-01	U		⁹⁰ Sr	5.0E-01 ± 2.0E-01	
	²³⁴ U	1.4E-01 ± 5.0E-02			²³⁴ U	1.3E-01 ± 4.5E-02	
	²³⁵ U	1.4E-02 ± 1.2E-02			²³⁵ U	8.4E-03 ± 8.4E-03	
	²³⁸ U	1.1E-01 ± 4.2E-02			²³⁸ U	1.3E-01 ± 4.5E-02	
	⁶⁵ Zn	9.0E-04 ± 9.0E-03	U		⁶⁵ Zn	6.1E-03 ± 1.9E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D066 (200 East)	¹⁴⁴ Ce	9.4E-03 ± 9.4E-02	U	D068 (200 East)	¹⁴⁴ Ce	-1.5E-02 ± 1.2E-01	U
	⁶⁰ Co	1.9E-03 ± 6.5E-03	U		⁶⁰ Co	4.1E-03 ± 6.7E-03	U
	¹³⁴ Cs	3.1E-02 ± 1.1E-02			¹³⁴ Cs	3.4E-02 ± 1.3E-02	
	¹³⁷ Cs	3.3E+00 ± 5.3E-01			¹³⁷ Cs	9.6E-02 ± 1.9E-02	
	¹⁵² Eu	-9.4E-03 ± 2.9E-02	U		¹⁵² Eu	-5.8E-03 ± 2.3E-02	U
	¹⁵⁴ Eu	2.2E-02 ± 2.3E-02	U		¹⁵⁴ Eu	-1.6E-02 ± 2.2E-02	U
	¹⁵⁵ Eu	6.2E-02 ± 4.5E-02			¹⁵⁵ Eu	3.1E-02 ± 3.5E-02	
	²³⁸ Pu	-3.3E-02 ± 3.3E-02	U		²³⁸ Pu	-1.7E-02 ± 3.7E-02	U
	^{239/240} Pu	1.0E-02 ± 1.5E-02	U		^{239/240} Pu	8.3E-03 ± 1.0E-02	U
	¹⁰³ Ru	-1.0E-02 ± 1.0E-02	U		¹⁰³ Ru	2.7E-03 ± 7.9E-03	U
	¹⁰⁶ Ru	-4.4E-02 ± 6.9E-02	U		¹⁰⁶ Ru	4.6E-02 ± 5.9E-02	U
	¹²⁵ Sb	5.6E-03 ± 2.5E-02	U		¹²⁵ Sb	1.3E-02 ± 1.8E-02	U
	¹¹³ Sn	-3.3E-04 ± 3.3E-03	U		¹¹³ Sn	-8.5E-03 ± 8.5E-03	U
	⁹⁰ Sr	2.2E-01 ± 2.1E-01	U		⁹⁰ Sr	-1.1E-01 ± 1.9E-01	U
	²³⁴ U	1.6E-01 ± 5.3E-02			²³⁴ U	1.7E-01 ± 5.6E-02	
	²³⁵ U	2.3E-02 ± 1.5E-02			²³⁵ U	1.2E-02 ± 1.0E-02	
	²³⁸ U	1.5E-01 ± 4.9E-02			²³⁸ U	1.6E-01 ± 5.3E-02	
	⁶⁵ Zn	-3.8E-03 ± 1.8E-02	U		⁶⁵ Zn	2.8E-02 ± 1.9E-02	U
D070 (200 East)	¹⁴⁴ Ce	-9.7E-02 ± 1.3E-01	U	D072 (200 East)	¹⁴⁴ Ce	6.8E-02 ± 9.6E-02	U
	⁶⁰ Co	4.1E-03 ± 6.1E-03	U		⁶⁰ Co	-7.1E-04 ± 4.8E-03	U
	¹³⁴ Cs	2.4E-02 ± 1.5E-02			¹³⁴ Cs	4.1E-02 ± 1.2E-02	
	¹³⁷ Cs	3.1E-01 ± 5.6E-02			¹³⁷ Cs	1.6E-01 ± 2.8E-02	
	¹⁵² Eu	-6.8E-03 ± 3.9E-02	U		¹⁵² Eu	6.8E-03 ± 1.6E-02	U
	¹⁵⁴ Eu	-3.8E-03 ± 2.4E-02	U		¹⁵⁴ Eu	1.1E-02 ± 1.9E-02	U
	¹⁵⁵ Eu	-1.7E-02 ± 3.6E-02	U		¹⁵⁵ Eu	2.6E-02 ± 2.7E-02	U
	²³⁸ Pu	-5.5E-03 ± 3.2E-02	U		²³⁸ Pu	4.7E-02 ± 3.9E-02	U
	^{239/240} Pu	1.8E-03 ± 8.1E-03	U		^{239/240} Pu	1.1E-02 ± 1.4E-02	U
	¹⁰³ Ru	-1.6E-03 ± 7.8E-03	U		¹⁰³ Ru	-1.4E-03 ± 6.0E-03	U
	¹⁰⁶ Ru	3.9E-02 ± 5.8E-02	U		¹⁰⁶ Ru	9.1E-03 ± 4.5E-02	U
	¹²⁵ Sb	6.3E-03 ± 2.0E-02	U		¹²⁵ Sb	5.4E-03 ± 1.5E-02	U
	¹¹³ Sn	-4.1E-03 ± 1.1E-02	U		¹¹³ Sn	6.1E-03 ± 7.0E-03	U
	⁹⁰ Sr	-6.2E-02 ± 1.7E-01	U		⁹⁰ Sr	4.6E-01 ± 2.3E-01	
	²³⁴ U	1.3E-01 ± 4.4E-02			²³⁴ U	1.2E-01 ± 4.6E-02	
	²³⁵ U	1.1E-02 ± 1.2E-02	U		²³⁵ U	9.0E-03 ± 1.3E-02	U
	²³⁸ U	1.5E-01 ± 4.9E-02			²³⁸ U	1.6E-01 ± 5.4E-02	
	⁶⁵ Zn	8.3E-03 ± 1.7E-02	U		⁶⁵ Zn	-2.1E-04 ± 2.1E-03	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D074 (200 East)	¹⁴⁴ Ce	8.2E-03 ± 8.2E-02	U	D076 (200 East)	¹⁴⁴ Ce	-5.6E-02 ± 1.3E-01	U
	⁶⁰ Co	-2.0E-03 ± 8.8E-03	U		⁶⁰ Co	-4.6E-04 ± 4.7E-03	U
	¹³⁴ Cs	5.7E-02 ± 2.0E-02			¹³⁴ Cs	3.7E-02 ± 1.3E-02	
	¹³⁷ Cs	3.0E-01 ± 5.3E-02			¹³⁷ Cs	6.6E-01 ± 1.1E-01	
	¹⁵² Eu	1.9E-02 ± 3.0E-02	U		¹⁵² Eu	-5.6E-04 ± 5.6E-03	U
	¹⁵⁴ Eu	-4.8E-04 ± 4.8E-03	U		¹⁵⁴ Eu	-2.2E-02 ± 2.4E-02	U
	¹⁵⁵ Eu	4.3E-02 ± 3.3E-02	U		¹⁵⁵ Eu	5.2E-02 ± 3.7E-02	
	²³⁸ Pu	1.9E-03 ± 1.9E-02	U		²³⁸ Pu	1.7E-03 ± 1.7E-03	U
	^{239/240} Pu	3.8E-03 ± 1.2E-02	U		^{239/240} Pu	2.8E-02 ± 1.5E-02	
	¹⁰³ Ru	5.1E-03 ± 1.1E-02	U		¹⁰³ Ru	-5.0E-03 ± 8.3E-03	U
	¹⁰⁶ Ru	-8.9E-02 ± 8.9E-02	U		¹⁰⁶ Ru	-9.4E-03 ± 6.3E-02	U
	¹²⁵ Sb	-5.5E-03 ± 2.6E-02	U		¹²⁵ Sb	-3.0E-03 ± 2.1E-02	U
	¹¹³ Sn	9.0E-03 ± 1.2E-02	U		¹¹³ Sn	-6.5E-03 ± 9.5E-03	U
	⁹⁰ Sr	5.2E-02 ± 1.9E-01	U		⁹⁰ Sr	7.9E-01 ± 2.5E-01	
	²³⁴ U	1.4E-01 ± 4.8E-02			²³⁴ U	1.4E-01 ± 4.9E-02	
	²³⁵ U	2.0E-02 ± 1.3E-02			²³⁵ U	1.1E-02 ± 1.0E-02	
	²³⁸ U	1.2E-01 ± 4.2E-02			²³⁸ U	1.4E-01 ± 4.9E-02	
	⁶⁵ Zn	-2.7E-02 ± 2.7E-02	U		⁶⁵ Zn	2.0E-02 ± 2.1E-02	U
D078 (200 East)	¹⁴⁴ Ce	2.2E-02 ± 1.2E-01	U	D080 (200 East)	¹⁴⁴ Ce	5.9E-02 ± 1.2E-01	U
	⁶⁰ Co	-4.5E-04 ± 4.5E-03	U		⁶⁰ Co	-1.0E-03 ± 5.9E-03	U
	¹³⁴ Cs	4.0E-02 ± 1.4E-02			¹³⁴ Cs	4.2E-02 ± 1.1E-02	
	¹³⁷ Cs	1.2E+00 ± 1.9E-01			¹³⁷ Cs	1.3E-01 ± 2.3E-02	
	¹⁵² Eu	-7.9E-03 ± 2.0E-02	U		¹⁵² Eu	4.7E-03 ± 1.9E-02	U
	¹⁵⁴ Eu	-3.2E-03 ± 1.9E-02	U		¹⁵⁴ Eu	9.9E-03 ± 2.1E-02	U
	¹⁵⁵ Eu	2.1E-02 ± 2.8E-02	U		¹⁵⁵ Eu	3.0E-02 ± 3.1E-02	U
	²³⁸ Pu	8.0E-03 ± 7.4E-03			²³⁸ Pu	-6.8E-03 ± 6.8E-03	U
	^{239/240} Pu	4.0E-02 ± 1.8E-02			^{239/240} Pu	3.4E-03 ± 6.8E-03	U
	¹⁰³ Ru	3.0E-03 ± 7.4E-03	U		¹⁰³ Ru	3.9E-03 ± 7.0E-03	U
	¹⁰⁶ Ru	2.7E-02 ± 5.4E-02	U		¹⁰⁶ Ru	-2.2E-02 ± 5.3E-02	U
	¹²⁵ Sb	-2.5E-02 ± 2.5E-02	U		¹²⁵ Sb	-6.6E-03 ± 1.7E-02	U
	¹¹³ Sn	-9.7E-03 ± 9.7E-03	U		¹¹³ Sn	-5.2E-03 ± 8.7E-03	U
	⁹⁰ Sr	-2.8E-02 ± 1.7E-01	U		⁹⁰ Sr	2.3E-02 ± 2.1E-01	U
	²³⁴ U	1.5E-01 ± 5.3E-02			²³⁴ U	1.1E-01 ± 4.1E-02	
	²³⁵ U	6.4E-03 ± 7.7E-03			²³⁵ U	1.1E-02 ± 1.2E-02	U
	²³⁸ U	1.5E-01 ± 5.1E-02			²³⁸ U	1.7E-01 ± 5.6E-02	
	⁶⁵ Zn	-1.4E-03 ± 1.4E-02	U		⁶⁵ Zn	-2.4E-02 ± 2.4E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D082 (600 Area)	¹⁴⁴ Ce	-1.2E-01 ± 1.2E-01	U	D084 (600 Area)	¹⁴⁴ Ce	6.0E-03 ± 6.0E-02	U
	⁶⁰ Co	-8.2E-04 ± 5.9E-03	U		⁶⁰ Co	-1.0E-02 ± 1.0E-02	U
	¹³⁴ Cs	4.7E-02 ± 1.3E-02			¹³⁴ Cs	5.2E-02 ± 1.7E-02	
	¹³⁷ Cs	1.6E-02 ± 9.9E-03			¹³⁷ Cs	3.2E-01 ± 6.0E-02	
	¹⁵² Eu	-1.4E-02 ± 2.0E-02	U		¹⁵² Eu	-2.6E-03 ± 2.6E-02	U
	¹⁵⁴ Eu	-1.0E-02 ± 2.3E-02	U		¹⁵⁴ Eu	-1.1E-02 ± 2.5E-02	U
	¹⁵⁵ Eu	3.1E-02 ± 3.8E-02	U		¹⁵⁵ Eu	3.1E-02 ± 3.4E-02	U
	²³⁸ Pu	2.9E-02 ± 3.5E-02	U		²³⁸ Pu	8.3E-03 ± 2.2E-02	U
	^{239/240} Pu	9.8E-03 ± 1.1E-02	U		^{239/240} Pu	1.0E-02 ± 1.1E-02	U
	¹⁰³ Ru	-2.6E-03 ± 7.3E-03	U		¹⁰³ Ru	-3.7E-03 ± 8.4E-03	U
	¹⁰⁶ Ru	2.4E-02 ± 5.4E-02	U		¹⁰⁶ Ru	-3.6E-03 ± 3.6E-02	U
	¹²⁵ Sb	-1.4E-02 ± 1.8E-02	U		¹²⁵ Sb	9.3E-03 ± 2.1E-02	U
	¹¹³ Sn	4.0E-03 ± 8.8E-03	U		¹¹³ Sn	3.3E-03 ± 1.0E-02	U
	⁹⁰ Sr	-2.1E-01 ± 2.1E-01	U		⁹⁰ Sr	1.1E+00 ± 2.5E-01	
	²³⁴ U	1.4E-01 ± 4.8E-02			²³⁴ U	1.3E-01 ± 4.8E-02	
	²³⁵ U	1.2E-02 ± 1.0E-02			²³⁵ U	2.5E-02 ± 1.7E-02	
	²³⁸ U	1.7E-01 ± 5.6E-02			²³⁸ U	1.4E-01 ± 5.0E-02	
	⁶⁵ Zn	4.5E-03 ± 1.7E-02	U		⁶⁵ Zn	-9.1E-03 ± 2.1E-02	U
D086 (600 Area)	¹⁴⁴ Ce	-2.9E-02 ± 1.4E-01	U	D088 (600 Area)	¹⁴⁴ Ce	1.9E-01 ± 3.5E-01	U
	⁶⁰ Co	-7.0E-03 ± 7.9E-03	U		⁶⁰ Co	1.2E-02 ± 9.5E-03	U
	¹³⁴ Cs	3.1E-02 ± 1.3E-02			¹³⁴ Cs	5.3E-02 ± 2.1E-02	
	¹³⁷ Cs	5.6E-01 ± 9.4E-02			¹³⁷ Cs	6.1E+01 ± 9.7E+00	
	¹⁵² Eu	-6.9E-03 ± 2.8E-02	U		¹⁵² Eu	-5.1E-02 ± 8.8E-02	U
	¹⁵⁴ Eu	-4.6E-03 ± 2.9E-02	U		¹⁵⁴ Eu	7.3E-02 ± 2.4E-02	
	¹⁵⁵ Eu	3.1E-02 ± 3.5E-02	U		¹⁵⁵ Eu	9.9E-02 ± 9.9E-02	U
	²³⁸ Pu	-1.6E-02 ± 2.9E-02	U		²³⁸ Pu	7.7E-01 ± 2.2E-01	
	^{239/240} Pu	1.0E-02 ± 9.3E-03			^{239/240} Pu	1.2E+01 ± 3.1E+00	
	¹⁰³ Ru	6.5E-03 ± 9.0E-03	U		¹⁰³ Ru	-1.7E-02 ± 3.6E-02	U
	¹⁰⁶ Ru	-4.5E-02 ± 7.4E-02	U		¹⁰⁶ Ru	-3.6E-02 ± 1.9E-01	U
	¹²⁵ Sb	-5.4E-04 ± 5.4E-03	U		¹²⁵ Sb	9.6E-02 ± 9.9E-02	U
	¹¹³ Sn	-4.2E-03 ± 1.1E-02	U		¹¹³ Sn	2.9E-02 ± 4.3E-02	U
	⁹⁰ Sr	6.3E-02 ± 2.0E-01	U		⁹⁰ Sr	2.2E-01 ± 2.1E-01	U
	²³⁴ U	1.2E-01 ± 4.4E-02			²³⁴ U	8.4E-01 ± 2.3E-01	
	²³⁵ U	1.3E-02 ± 1.3E-02	U		²³⁵ U	5.5E-02 ± 2.6E-02	
	²³⁸ U	1.1E-01 ± 4.1E-02			²³⁸ U	6.8E-01 ± 1.9E-01	
	⁶⁵ Zn	2.3E-02 ± 2.2E-02	U		⁶⁵ Zn	-2.0E-02 ± 2.5E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D090 (600 Area)	¹⁴⁴ Ce	1.2E-01 ± 1.7E-01	U	D092 (600 Area)	¹⁴⁴ Ce	-6.8E-02 ± 1.7E-01	U
	⁶⁰ Co	1.3E-02 ± 1.3E-02			⁶⁰ Co	5.0E-03 ± 1.0E-02	U
	¹³⁴ Cs	4.0E-02 ± 1.4E-02			¹³⁴ Cs	5.0E-02 ± 1.9E-02	
	¹³⁷ Cs	5.1E-01 ± 8.9E-02			¹³⁷ Cs	1.4E+00 ± 2.1E-01	
	¹⁵² Eu	5.3E-03 ± 4.4E-02	U		¹⁵² Eu	-1.5E-02 ± 3.7E-02	U
	¹⁵⁴ Eu	-1.9E-02 ± 2.5E-02	U		¹⁵⁴ Eu	-1.6E-02 ± 3.6E-02	U
	¹⁵⁵ Eu	3.2E-02 ± 4.0E-02	U		¹⁵⁵ Eu	4.5E-02 ± 3.8E-02	U
	²³⁸ Pu	1.4E-02 ± 3.9E-02	U		²³⁸ Pu	-1.4E-02 ± 4.1E-02	U
	^{239/240} Pu	2.3E-02 ± 1.6E-02			^{239/240} Pu	7.9E-02 ± 3.4E-02	
	¹⁰³ Ru	-3.8E-03 ± 8.6E-03	U		¹⁰³ Ru	5.1E-03 ± 1.3E-02	U
	¹⁰⁶ Ru	-6.9E-03 ± 6.3E-02	U		¹⁰⁶ Ru	3.1E-02 ± 9.3E-02	U
	¹²⁵ Sb	7.1E-03 ± 2.2E-02	U		¹²⁵ Sb	1.3E-02 ± 3.2E-02	U
	¹¹³ Sn	-8.0E-04 ± 8.0E-03	U		¹¹³ Sn	-3.4E-03 ± 1.5E-02	U
	⁹⁰ Sr	2.6E-01 ± 2.3E-01	U		⁹⁰ Sr	5.5E-01 ± 2.5E-01	
	²³⁴ U	1.3E-01 ± 4.7E-02			²³⁴ U	1.8E-01 ± 5.9E-02	
	²³⁵ U	1.5E-02 ± 1.2E-02			²³⁵ U	6.7E-03 ± 8.0E-03	
	²³⁸ U	1.8E-01 ± 5.9E-02			²³⁸ U	1.4E-01 ± 4.9E-02	
	⁶⁵ Zn	2.8E-02 ± 1.9E-02	U		⁶⁵ Zn	9.3E-03 ± 2.6E-02	U
D094 (600 Area)	¹⁴⁴ Ce	2.5E-02 ± 1.5E-01	U	D096 (600 Area)	¹⁴⁴ Ce	9.3E-02 ± 1.4E-01	U
	⁶⁰ Co	3.2E-03 ± 5.7E-03	U		⁶⁰ Co	1.7E-03 ± 7.2E-03	U
	¹³⁴ Cs	2.9E-02 ± 1.1E-02			¹³⁴ Cs	4.7E-02 ± 1.5E-02	
	¹³⁷ Cs	1.2E-01 ± 2.6E-02			¹³⁷ Cs	2.3E-01 ± 4.1E-02	
	¹⁵² Eu	3.8E-02 ± 3.9E-02			¹⁵² Eu	-8.6E-03 ± 2.4E-02	U
	¹⁵⁴ Eu	-1.3E-02 ± 2.0E-02	U		¹⁵⁴ Eu	-2.4E-02 ± 2.4E-02	U
	¹⁵⁵ Eu	1.4E-02 ± 3.6E-02	U		¹⁵⁵ Eu	3.6E-02 ± 3.5E-02	U
	²³⁸ Pu	2.1E-03 ± 2.1E-03	U		²³⁸ Pu	1.0E-02 ± 3.5E-02	U
	^{239/240} Pu	1.0E-02 ± 1.1E-02	U		^{239/240} Pu	2.1E-03 ± 1.1E-02	U
	¹⁰³ Ru	2.4E-03 ± 7.5E-03	U		¹⁰³ Ru	-7.9E-04 ± 7.9E-03	U
	¹⁰⁶ Ru	-3.0E-02 ± 5.9E-02	U		¹⁰⁶ Ru	1.7E-03 ± 1.7E-02	U
	¹²⁵ Sb	1.2E-02 ± 1.9E-02	U		¹²⁵ Sb	6.1E-03 ± 1.9E-02	U
	¹¹³ Sn	-9.9E-03 ± 9.9E-03	U		¹¹³ Sn	3.3E-03 ± 1.1E-02	U
	⁹⁰ Sr	-3.6E-01 ± 3.6E-01	U		⁹⁰ Sr	-1.2E-01 ± 2.2E-01	U
	²³⁴ U	1.9E-01 ± 6.1E-02			²³⁴ U	1.8E-01 ± 5.8E-02	
	²³⁵ U	1.4E-02 ± 1.0E-02			²³⁵ U	9.3E-03 ± 8.6E-03	
	²³⁸ U	2.0E-01 ± 6.2E-02			²³⁸ U	1.5E-01 ± 4.9E-02	
	⁶⁵ Zn	2.6E-02 ± 1.8E-02	U		⁶⁵ Zn	1.9E-02 ± 1.9E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D098 (600 Area)	¹⁴⁴ Ce	-5.6E-03 ± 5.6E-02	U	D100 (600 Area)	¹⁴⁴ Ce	-8.2E-02 ± 1.2E-01	U
	⁶⁰ Co	3.4E-03 ± 7.6E-03	U		⁶⁰ Co	1.5E-03 ± 5.8E-03	U
	¹³⁴ Cs	3.7E-02 ± 1.4E-02			¹³⁴ Cs	4.6E-02 ± 1.3E-02	
	¹³⁷ Cs	7.1E-02 ± 2.0E-02			¹³⁷ Cs	1.6E-02 ± 8.4E-03	
	¹⁵² Eu	-2.1E-02 ± 2.7E-02	U		¹⁵² Eu	2.6E-03 ± 2.0E-02	U
	¹⁵⁴ Eu	-1.4E-02 ± 2.5E-02	U		¹⁵⁴ Eu	-3.5E-03 ± 2.0E-02	U
	¹⁵⁵ Eu	7.8E-02 ± 4.7E-02			¹⁵⁵ Eu	5.2E-02 ± 2.7E-02	
	²³⁸ Pu	2.6E-02 ± 3.6E-02	U		²³⁸ Pu	-6.4E-03 ± 3.3E-02	U
	^{239/240} Pu	2.2E-02 ± 1.6E-02			^{239/240} Pu	1.3E-02 ± 1.1E-02	
	¹⁰³ Ru	-3.5E-03 ± 7.7E-03	U		¹⁰³ Ru	4.8E-03 ± 6.3E-03	U
	¹⁰⁶ Ru	-1.2E-02 ± 6.3E-02	U		¹⁰⁶ Ru	3.1E-03 ± 3.1E-02	U
	¹²⁵ Sb	-2.1E-03 ± 2.0E-02	U		¹²⁵ Sb	-3.6E-03 ± 1.6E-02	U
	¹¹³ Sn	3.7E-03 ± 9.3E-03	U		¹¹³ Sn	-3.9E-03 ± 7.7E-03	U
	⁹⁰ Sr	-2.1E-01 ± 2.4E-01	U		⁹⁰ Sr	-3.6E-01 ± 3.6E-01	U
	²³⁴ U	1.5E-01 ± 4.9E-02			²³⁴ U	1.3E-01 ± 4.4E-02	
	²³⁵ U	1.6E-02 ± 1.2E-02			²³⁵ U	7.3E-03 ± 7.3E-03	
	²³⁸ U	1.6E-01 ± 5.3E-02			²³⁸ U	1.3E-01 ± 4.4E-02	
	⁶⁵ Zn	2.5E-02 ± 2.2E-02	U		⁶⁵ Zn	-1.3E-02 ± 1.6E-02	U
D102 (600 Area)	¹⁴⁴ Ce	4.4E-02 ± 1.3E-01	U	D104 (600 Area)	¹⁴⁴ Ce	-1.4E-02 ± 1.3E-01	U
	⁶⁰ Co	4.1E-03 ± 6.4E-03	U		⁶⁰ Co	-2.8E-03 ± 6.7E-03	U
	¹³⁴ Cs	3.6E-02 ± 9.9E-03			¹³⁴ Cs	4.7E-02 ± 1.3E-02	
	¹³⁷ Cs	1.9E+00 ± 3.0E-01			¹³⁷ Cs	2.9E-01 ± 4.8E-02	
	¹⁵² Eu	5.7E-03 ± 2.5E-02	U		¹⁵² Eu	-1.8E-02 ± 2.4E-02	U
	¹⁵⁴ Eu	1.8E-02 ± 2.3E-02	U		¹⁵⁴ Eu	-1.3E-02 ± 2.1E-02	U
	¹⁵⁵ Eu	5.4E-02 ± 4.1E-02			¹⁵⁵ Eu	5.0E-02 ± 4.2E-02	
	²³⁸ Pu	5.0E-02 ± 4.3E-02	U		²³⁸ Pu	1.6E-02 ± 2.9E-02	U
	^{239/240} Pu	9.2E-02 ± 4.0E-02			^{239/240} Pu	1.6E-02 ± 1.2E-02	
	¹⁰³ Ru	5.9E-03 ± 8.9E-03	U		¹⁰³ Ru	8.1E-04 ± 7.5E-03	U
	¹⁰⁶ Ru	-1.4E-02 ± 6.1E-02	U		¹⁰⁶ Ru	2.9E-02 ± 5.8E-02	U
	¹²⁵ Sb	1.9E-02 ± 2.3E-02	U		¹²⁵ Sb	-2.6E-03 ± 1.9E-02	U
	¹¹³ Sn	-4.7E-03 ± 1.1E-02	U		¹¹³ Sn	-9.0E-03 ± 9.3E-03	U
	⁹⁰ Sr	-7.0E-02 ± 2.2E-01	U		⁹⁰ Sr	-1.5E-01 ± 1.8E-01	U
	²³⁴ U	2.8E-01 ± 8.7E-02			²³⁴ U	1.3E-01 ± 4.7E-02	
	²³⁵ U	1.8E-02 ± 1.3E-02			²³⁵ U	4.4E-03 ± 6.2E-03	U
	²³⁸ U	2.6E-01 ± 8.1E-02			²³⁸ U	1.2E-01 ± 4.4E-02	
	⁶⁵ Zn	-5.5E-03 ± 2.7E-02	U		⁶⁵ Zn	-4.8E-03 ± 1.8E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D106 (600 Area)	¹⁴⁴ Ce	3.1E-02 ± 1.4E-01	U	D108 (600 Area)	¹⁴⁴ Ce	-1.7E-01 ± 1.7E-01	U
	⁶⁰ Co	-2.3E-03 ± 7.3E-03	U		⁶⁰ Co	-3.4E-03 ± 7.7E-03	U
	¹³⁴ Cs	3.0E-02 ± 1.2E-02			¹³⁴ Cs	4.2E-02 ± 1.3E-02	
	¹³⁷ Cs	9.6E-01 ± 1.6E-01			¹³⁷ Cs	1.0E+00 ± 1.7E-01	
	¹⁵² Eu	-2.9E-02 ± 3.3E-02	U		¹⁵² Eu	-6.0E-04 ± 6.0E-03	U
	¹⁵⁴ Eu	-1.1E-02 ± 2.4E-02	U		¹⁵⁴ Eu	-2.5E-02 ± 2.5E-02	U
	¹⁵⁵ Eu	4.6E-02 ± 3.3E-02	U		¹⁵⁵ Eu	4.6E-02 ± 4.0E-02	U
	²³⁸ Pu	2.7E-01 ± 9.2E-02			²³⁸ Pu	2.1E-03 ± 2.1E-02	
	^{239/240} Pu	7.3E-01 ± 2.0E-01			^{239/240} Pu	7.2E-02 ± 3.2E-02	
	¹⁰³ Ru	-2.7E-03 ± 8.6E-03	U		¹⁰³ Ru	1.8E-03 ± 8.7E-03	U
	¹⁰⁶ Ru	5.5E-02 ± 7.0E-02	U		¹⁰⁶ Ru	-3.9E-02 ± 6.9E-02	U
	¹²⁵ Sb	-5.5E-03 ± 2.2E-02	U		¹²⁵ Sb	-9.0E-03 ± 2.3E-02	U
	¹¹³ Sn	1.4E-03 ± 1.0E-02	U		¹¹³ Sn	-5.5E-03 ± 1.1E-02	U
	⁹⁰ Sr	3.6E-01 ± 2.2E-01	U		⁹⁰ Sr	8.8E-01 ± 3.1E-01	
	²³⁴ U	1.3E-01 ± 4.4E-02			²³⁴ U	1.4E-01 ± 4.8E-02	
	²³⁵ U	7.3E-03 ± 7.3E-03			²³⁵ U	9.2E-03 ± 8.6E-03	
	²³⁸ U	1.4E-01 ± 4.8E-02			²³⁸ U	1.4E-01 ± 4.8E-02	
	⁶⁵ Zn	-9.3E-03 ± 2.0E-02	U		⁶⁵ Zn	2.9E-02 ± 2.2E-02	U
D110 (600 Area)	¹⁴⁴ Ce	-5.4E-02 ± 1.7E-01	U	D112 (600 Area)	¹⁴⁴ Ce	3.5E-02 ± 1.1E-01	U
	⁶⁰ Co	6.0E-03 ± 7.7E-03	U		⁶⁰ Co	-7.1E-04 ± 5.8E-03	U
	¹³⁴ Cs	3.0E-02 ± 1.1E-02			¹³⁴ Cs	3.2E-02 ± 1.1E-02	
	¹³⁷ Cs	1.4E-01 ± 2.9E-02			¹³⁷ Cs	9.1E-02 ± 2.0E-02	
	¹⁵² Eu	4.5E-03 ± 4.3E-02	U		¹⁵² Eu	-2.9E-02 ± 2.9E-02	U
	¹⁵⁴ Eu	-3.1E-02 ± 3.1E-02	U		¹⁵⁴ Eu	-1.2E-02 ± 1.9E-02	U
	¹⁵⁵ Eu	-2.8E-03 ± 2.8E-02	U		¹⁵⁵ Eu	2.7E-02 ± 2.7E-02	U
	²³⁸ Pu	-1.6E-02 ± 4.0E-02	U		²³⁸ Pu	1.2E-02 ± 3.5E-02	U
	^{239/240} Pu	4.5E-03 ± 9.0E-03	U		^{239/240} Pu	-6.1E-03 ± 1.2E-02	U
	¹⁰³ Ru	4.2E-03 ± 8.0E-03	U		¹⁰³ Ru	7.8E-04 ± 6.0E-03	U
	¹⁰⁶ Ru	1.4E-02 ± 6.3E-02	U		¹⁰⁶ Ru	3.4E-03 ± 3.4E-02	U
	¹²⁵ Sb	-5.8E-03 ± 2.1E-02	U		¹²⁵ Sb	2.6E-03 ± 1.6E-02	U
	¹¹³ Sn	-3.0E-04 ± 3.0E-03	U		¹¹³ Sn	7.8E-04 ± 7.5E-03	U
	⁹⁰ Sr	2.5E-01 ± 2.5E-01	U		⁹⁰ Sr	-3.1E-01 ± 3.1E-01	U
	²³⁴ U	1.4E-01 ± 4.8E-02			²³⁴ U	9.9E-02 ± 3.7E-02	
	²³⁵ U	9.2E-03 ± 8.6E-03			²³⁵ U	9.3E-03 ± 1.0E-02	
	²³⁸ U	1.4E-01 ± 4.8E-02			²³⁸ U	1.4E-01 ± 4.8E-02	
	⁶⁵ Zn	2.0E-02 ± 1.9E-02	U		⁶⁵ Zn	-1.2E-02 ± 1.6E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D114 (600 Area)	¹⁴⁴ Ce	5.0E-02 ± 1.7E-01	U	D116 (300 Area)	¹⁴⁴ Ce	-3.9E-02 ± 1.0E-01	U
	⁶⁰ Co	-4.4E-04 ± 4.4E-03	U		⁶⁰ Co	3.5E-03 ± 5.6E-03	U
	¹³⁴ Cs	5.4E-02 ± 1.8E-02			¹³⁴ Cs	2.6E-02 ± 1.1E-02	
	¹³⁷ Cs	2.0E-01 ± 3.8E-02			¹³⁷ Cs	2.4E-02 ± 8.9E-03	
	¹⁵² Eu	2.3E-02 ± 4.2E-02	U		¹⁵² Eu	-3.7E-03 ± 1.7E-02	U
	¹⁵⁴ Eu	-2.2E-02 ± 2.2E-02	U		¹⁵⁴ Eu	-2.2E-02 ± 2.2E-02	U
	¹⁵⁵ Eu	3.0E-02 ± 3.6E-02	U		¹⁵⁵ Eu	3.8E-02 ± 3.5E-02	U
	²³⁸ Pu	1.0E-02 ± 2.9E-02	U		²³⁸ Pu	-5.0E-03 ± 3.9E-02	U
	^{239/240} Pu	5.0E-02 ± 2.3E-02			^{239/240} Pu	2.0E-02 ± 1.5E-02	
	¹⁰³ Ru	-5.8E-03 ± 8.0E-03	U		¹⁰³ Ru	-4.4E-03 ± 5.7E-03	U
	¹⁰⁶ Ru	-1.9E-02 ± 6.2E-02	U		¹⁰⁶ Ru	-2.9E-02 ± 4.6E-02	U
	¹²⁵ Sb	-2.1E-04 ± 2.1E-03	U		¹²⁵ Sb	1.2E-03 ± 1.2E-02	U
	¹¹³ Sn	2.0E-03 ± 1.0E-02	U		¹¹³ Sn	-1.9E-03 ± 7.6E-03	U
	⁹⁰ Sr	5.4E-02 ± 2.4E-01	U		⁹⁰ Sr	-1.6E-01 ± 2.1E-01	U
	²³⁴ U	1.7E-01 ± 5.4E-02			²³⁴ U	2.7E-01 ± 9.7E-02	
	²³⁵ U	2.5E-02 ± 1.5E-02			²³⁵ U	5.0E-02 ± 3.3E-02	
	²³⁸ U	1.9E-01 ± 6.1E-02			²³⁸ U	2.5E-01 ± 9.0E-02	
	⁶⁵ Zn	1.8E-02 ± 1.9E-02	U		⁶⁵ Zn	-1.1E-02 ± 1.6E-02	U
D117 (300 Area)	¹⁴⁴ Ce	-1.7E-02 ± 1.1E-01	U	D119 (300 Area)	¹⁴⁴ Ce	-1.6E-02 ± 1.2E-01	U
	⁶⁰ Co	4.0E-04 ± 4.0E-03	U		⁶⁰ Co	-2.3E-03 ± 6.8E-03	U
	¹³⁴ Cs	2.7E-02 ± 9.9E-03			¹³⁴ Cs	2.7E-02 ± 1.3E-02	
	¹³⁷ Cs	2.3E-01 ± 4.0E-02			¹³⁷ Cs	1.5E-01 ± 3.0E-02	
	¹⁵² Eu	-1.4E-02 ± 1.8E-02	U		¹⁵² Eu	-2.1E-02 ± 2.5E-02	U
	¹⁵⁴ Eu	-1.3E-03 ± 1.3E-02	U		¹⁵⁴ Eu	6.1E-03 ± 2.2E-02	U
	¹⁵⁵ Eu	4.7E-02 ± 4.4E-02			¹⁵⁵ Eu	5.0E-02 ± 4.1E-02	
	²³⁸ Pu	1.7E-02 ± 3.9E-02	U		²³⁸ Pu	9.5E-03 ± 3.6E-02	U
	^{239/240} Pu	3.4E-02 ± 2.3E-02			^{239/240} Pu	8.5E-02 ± 3.6E-02	
	¹⁰³ Ru	6.0E-03 ± 6.0E-03	U		¹⁰³ Ru	-4.1E-03 ± 6.9E-03	U
	¹⁰⁶ Ru	3.0E-02 ± 5.4E-02	U		¹⁰⁶ Ru	3.5E-02 ± 5.9E-02	U
	¹²⁵ Sb	-4.8E-03 ± 1.6E-02	U		¹²⁵ Sb	5.2E-03 ± 1.8E-02	U
	¹¹³ Sn	-7.3E-04 ± 7.3E-03	U		¹¹³ Sn	-3.7E-04 ± 3.7E-03	U
	⁹⁰ Sr	4.2E-02 ± 2.6E-01	U		⁹⁰ Sr	-5.7E-03 ± 5.7E-02	U
	²³⁴ U	8.0E-01 ± 2.2E-01			²³⁴ U	4.7E+00 ± 1.2E+00	
	²³⁵ U	6.5E-02 ± 3.1E-02			²³⁵ U	2.0E-01 ± 6.8E-02	
	²³⁸ U	7.1E-01 ± 2.0E-01			²³⁸ U	4.6E+00 ± 1.2E+00	
	⁶⁵ Zn	-1.6E-02 ± 1.7E-02	U		⁶⁵ Zn	8.5E-03 ± 1.7E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D121 (300 Area)	¹⁴⁴ Ce	-3.1E-02 ± 1.2E-01	U	D123 (300 Area)	¹⁴⁴ Ce	3.4E-02 ± 1.5E-01	U
	⁶⁰ Co	1.3E-03 ± 7.5E-03	U		⁶⁰ Co	-8.9E-04 ± 6.5E-03	U
	¹³⁴ Cs	3.1E-02 ± 1.1E-02			¹³⁴ Cs	3.2E-02 ± 1.4E-02	
	¹³⁷ Cs	1.7E-01 ± 3.0E-02			¹³⁷ Cs	2.6E-02 ± 1.1E-02	
	¹⁵² Eu	-1.1E-03 ± 1.1E-02	U		¹⁵² Eu	1.3E-02 ± 4.0E-02	U
	¹⁵⁴ Eu	-4.0E-02 ± 4.0E-02	U		¹⁵⁴ Eu	-8.7E-03 ± 2.2E-02	U
	¹⁵⁵ Eu	5.5E-02 ± 3.7E-02			¹⁵⁵ Eu	3.1E-04 ± 3.1E-03	U
	²³⁸ Pu	2.3E-03 ± 2.3E-03	U		²³⁸ Pu	4.4E-03 ± 2.8E-02	U
	^{239/240} Pu	4.2E-02 ± 2.4E-02			^{239/240} Pu	1.5E-02 ± 1.6E-02	U
	¹⁰³ Ru	1.2E-03 ± 7.2E-03	U		¹⁰³ Ru	-2.6E-03 ± 7.2E-03	U
	¹⁰⁶ Ru	1.9E-02 ± 6.0E-02	U		¹⁰⁶ Ru	1.2E-03 ± 1.2E-02	U
	¹²⁵ Sb	4.1E-03 ± 2.2E-02	U		¹²⁵ Sb	1.1E-02 ± 2.0E-02	U
	¹¹³ Sn	-3.7E-03 ± 8.8E-03	U		¹¹³ Sn	-7.3E-03 ± 9.6E-03	U
	⁹⁰ Sr	-1.5E-01 ± 1.8E-01	U		⁹⁰ Sr	-2.5E-01 ± 2.5E-01	U
	²³⁴ U	1.2E+00 ± 3.1E-01			²³⁴ U	1.8E-01 ± 5.9E-02	
	²³⁵ U	5.6E-02 ± 2.6E-02			²³⁵ U	1.8E-02 ± 1.4E-02	
	²³⁸ U	1.4E+00 ± 3.6E-01			²³⁸ U	1.8E-01 ± 5.8E-02	
	⁶⁵ Zn	4.0E-02 ± 2.1E-02			⁶⁵ Zn	2.6E-02 ± 2.9E-02	U
D124 (300 Area)	¹⁴⁴ Ce	-3.0E-02 ± 1.2E-01	U	D125 (300 Area)	¹⁴⁴ Ce	-4.3E-02 ± 1.3E-01	U
	⁶⁰ Co	-3.0E-03 ± 7.4E-03	U		⁶⁰ Co	1.7E-03 ± 6.5E-03	U
	¹³⁴ Cs	3.2E-02 ± 9.9E-03			¹³⁴ Cs	2.9E-02 ± 1.0E-02	
	¹³⁷ Cs	4.3E-02 ± 1.3E-02			¹³⁷ Cs	1.6E-01 ± 3.9E-02	
	¹⁵² Eu	-2.2E-02 ± 2.6E-02	U		¹⁵² Eu	6.5E-04 ± 6.5E-03	U
	¹⁵⁴ Eu	8.8E-03 ± 2.8E-02	U		¹⁵⁴ Eu	1.3E-02 ± 2.3E-02	U
	¹⁵⁵ Eu	3.6E-02 ± 3.2E-02	U		¹⁵⁵ Eu	4.0E-02 ± 3.6E-02	U
	²³⁸ Pu	-1.1E-02 ± 4.1E-02	U		²³⁸ Pu	1.2E-02 ± 1.9E-02	U
	^{239/240} Pu	2.2E-03 ± 2.2E-02	U		^{239/240} Pu	8.3E-03 ± 8.3E-03	
	¹⁰³ Ru	3.2E-03 ± 6.9E-03	U		¹⁰³ Ru	3.2E-03 ± 5.9E-03	U
	¹⁰⁶ Ru	9.8E-04 ± 9.8E-03	U		¹⁰⁶ Ru	1.4E-02 ± 5.6E-02	U
	¹²⁵ Sb	5.5E-03 ± 1.8E-02	U		¹²⁵ Sb	1.1E-02 ± 1.7E-02	U
	¹¹³ Sn	1.3E-02 ± 7.9E-03	U		¹¹³ Sn	3.8E-04 ± 3.8E-03	U
	⁹⁰ Sr	-1.5E-01 ± 2.3E-01	U		⁹⁰ Sr	-2.7E-01 ± 2.7E-01	U
	²³⁴ U	2.1E-01 ± 6.9E-02			²³⁴ U	8.1E-01 ± 2.2E-01	
	²³⁵ U	1.2E-02 ± 1.3E-02	U		²³⁵ U	5.9E-02 ± 2.6E-02	
	²³⁸ U	2.1E-01 ± 6.9E-02			²³⁸ U	6.7E-01 ± 1.8E-01	
	⁶⁵ Zn	1.3E-02 ± 2.1E-02	U		⁶⁵ Zn	1.3E-02 ± 1.8E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D126 (300 Area)	¹⁴⁴ Ce	-2.8E-02 ± 9.8E-02	U	D127 (300 Area)	¹⁴⁴ Ce	-7.3E-02 ± 1.0E-01	U
	⁶⁰ Co	9.1E-04 ± 5.0E-03	U		⁶⁰ Co	1.3E-03 ± 5.8E-03	U
	¹³⁴ Cs	2.3E-02 ± 1.1E-02			¹³⁴ Cs	2.5E-02 ± 1.1E-02	
	¹³⁷ Cs	1.6E-02 ± 1.0E-02			¹³⁷ Cs	9.4E-02 ± 1.8E-02	
	¹⁵² Eu	-8.2E-04 ± 8.2E-03	U		¹⁵² Eu	-1.8E-02 ± 1.8E-02	U
	¹⁵⁴ Eu	1.3E-02 ± 1.5E-02	U		¹⁵⁴ Eu	6.3E-03 ± 2.0E-02	U
	¹⁵⁵ Eu	4.5E-02 ± 3.3E-02			¹⁵⁵ Eu	2.6E-02 ± 3.0E-02	U
	²³⁸ Pu	7.6E-03 ± 1.4E-02	U		²³⁸ Pu	-6.8E-03 ± 3.8E-02	U
	^{239/240} Pu	7.6E-03 ± 7.6E-03			^{239/240} Pu	2.3E-03 ± 8.1E-03	U
	¹⁰³ Ru	2.3E-04 ± 2.3E-03	U		¹⁰³ Ru	1.5E-03 ± 5.7E-03	U
	¹⁰⁶ Ru	6.7E-03 ± 4.6E-02	U		¹⁰⁶ Ru	-2.1E-02 ± 5.0E-02	U
	¹²⁵ Sb	9.3E-03 ± 1.5E-02	U		¹²⁵ Sb	7.8E-03 ± 1.5E-02	U
	¹¹³ Sn	-8.2E-03 ± 8.2E-03	U		¹¹³ Sn	-1.1E-02 ± 1.1E-02	U
	⁹⁰ Sr	2.8E-01 ± 2.5E-01	U		⁹⁰ Sr	-2.7E-01 ± 2.7E-01	U
	²³⁴ U	1.9E-01 ± 6.1E-02			²³⁴ U	1.4E-01 ± 5.0E-02	
	²³⁵ U	3.7E-02 ± 1.9E-02			²³⁵ U	8.6E-03 ± 8.6E-03	
	²³⁸ U	1.8E-01 ± 5.8E-02			²³⁸ U	1.5E-01 ± 5.3E-02	
	⁶⁵ Zn	-1.5E-02 ± 1.5E-02	U		⁶⁵ Zn	7.2E-03 ± 2.1E-02	U
D128 (300 Area)	¹⁴⁴ Ce	6.4E-03 ± 6.4E-02	U	D129 (300 Area)	¹⁴⁴ Ce	3.1E-02 ± 1.2E-01	U
	⁶⁰ Co	-1.8E-03 ± 5.8E-03	U		⁶⁰ Co	-6.5E-03 ± 6.7E-03	U
	¹³⁴ Cs	3.0E-02 ± 9.3E-03			¹³⁴ Cs	3.9E-02 ± 1.1E-02	
	¹³⁷ Cs	1.4E-01 ± 2.5E-02			¹³⁷ Cs	1.0E-01 ± 1.9E-02	
	¹⁵² Eu	3.9E-03 ± 1.7E-02	U		¹⁵² Eu	-1.2E-02 ± 2.3E-02	U
	¹⁵⁴ Eu	-5.9E-05 ± 5.9E-04	U		¹⁵⁴ Eu	-4.1E-02 ± 4.1E-02	U
	¹⁵⁵ Eu	4.2E-02 ± 3.5E-02			¹⁵⁵ Eu	2.5E-02 ± 2.9E-02	U
	²³⁸ Pu	-7.6E-03 ± 2.2E-02	U		²³⁸ Pu	8.7E-03 ± 3.1E-02	U
	^{239/240} Pu	1.2E-01 ± 4.3E-02			^{239/240} Pu	6.5E-03 ± 1.2E-02	
	¹⁰³ Ru	-1.3E-03 ± 5.2E-03	U		¹⁰³ Ru	2.3E-03 ± 6.2E-03	U
	¹⁰⁶ Ru	-1.1E-02 ± 4.3E-02	U		¹⁰⁶ Ru	3.3E-03 ± 3.3E-02	U
	¹²⁵ Sb	5.9E-03 ± 1.5E-02	U		¹²⁵ Sb	9.1E-03 ± 1.8E-02	U
	¹¹³ Sn	1.4E-03 ± 7.0E-03	U		¹¹³ Sn	-2.4E-03 ± 9.4E-03	U
	⁹⁰ Sr	-2.6E-01 ± 2.6E-01	U		⁹⁰ Sr	-2.7E-01 ± 2.7E-01	U
	²³⁴ U	1.6E-01 ± 5.4E-02			²³⁴ U	3.2E-01 ± 9.3E-02	
	²³⁵ U	2.0E-02 ± 1.5E-02			²³⁵ U	2.4E-02 ± 1.6E-02	
	²³⁸ U	1.8E-01 ± 5.8E-02			²³⁸ U	3.9E-01 ± 1.1E-01	
	⁶⁵ Zn	-1.1E-02 ± 1.5E-02	U		⁶⁵ Zn	6.5E-03 ± 1.8E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-4. 2004 Soil Sampling Results (pCi/g ± total analytical uncertainty). (21 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
D130 (400 Area)	¹⁴⁴ Ce	-5.8E-02 ± 1.2E-01	U	D131 (Duplicate of D119, 300 Area)	¹⁴⁴ Ce	-1.3E-02 ± 1.0E-01	U
	⁶⁰ Co	2.0E-03 ± 7.6E-03	U		⁶⁰ Co	-2.3E-03 ± 5.3E-03	U
	¹³⁴ Cs	3.8E-02 ± 1.4E-02			¹³⁴ Cs	3.3E-02 ± 1.0E-02	
	¹³⁷ Cs	1.3E-02 ± 1.0E-02			¹³⁷ Cs	1.2E-01 ± 2.2E-02	
	¹⁵² Eu	-2.6E-02 ± 2.6E-02	U		¹⁵² Eu	1.1E-02 ± 1.9E-02	U
	¹⁵⁴ Eu	-1.9E-02 ± 2.5E-02	U		¹⁵⁴ Eu	-8.9E-03 ± 1.8E-02	U
	¹⁵⁵ Eu	3.6E-02 ± 3.7E-02	U		¹⁵⁵ Eu	2.7E-02 ± 2.9E-02	U
	²³⁸ Pu	1.1E-02 ± 2.1E-02	U		²³⁸ Pu	-1.4E-02 ± 4.1E-02	U
	^{239/240} Pu	2.1E-03 ± 7.3E-03	U		^{239/240} Pu	3.6E-02 ± 2.2E-02	
	¹⁰³ Ru	6.3E-04 ± 6.3E-03	U		¹⁰³ Ru	-2.6E-03 ± 5.3E-03	U
	¹⁰⁶ Ru	-2.3E-02 ± 6.1E-02	U		¹⁰⁶ Ru	7.2E-04 ± 7.2E-03	U
	¹²⁵ Sb	-1.7E-03 ± 1.7E-02	U		¹²⁵ Sb	3.8E-03 ± 1.5E-02	U
	¹¹³ Sn	-1.7E-03 ± 8.8E-03	U		¹¹³ Sn	-8.0E-03 ± 8.0E-03	U
	⁹⁰ Sr	-3.1E-01 ± 3.1E-01	U		⁹⁰ Sr	-2.9E-01 ± 2.9E-01	U
	²³⁴ U	1.4E-01 ± 4.9E-02			²³⁴ U	4.1E+00 ± 1.1E+00	
	²³⁵ U	1.0E-02 ± 9.3E-03			²³⁵ U	2.4E-01 ± 7.7E-02	
	²³⁸ U	1.0E-01 ± 3.7E-02			²³⁸ U	4.4E+00 ± 1.1E+00	
	⁶⁵ Zn	5.5E-02 ± 2.2E-02			⁶⁵ Zn	-1.6E-02 ± 1.6E-02	U
D140 (Duplicate of D123, 300 Area)	¹⁴⁴ Ce	-1.2E-02 ± 2.7E-02	U				
	⁶⁰ Co	-2.1E-03 ± 2.4E-03	U				
	¹³⁴ Cs	1.0E-02 ± 4.3E-03					
	¹³⁷ Cs	4.1E-03 ± 2.5E-03					
	¹⁵² Eu	-2.4E-03 ± 9.4E-03	U				
	¹⁵⁴ Eu	-7.2E-03 ± 7.2E-03	U				
	¹⁵⁵ Eu	7.4E-04 ± 7.3E-03	U				
	²³⁸ Pu	2.5E-03 ± 2.5E-03	U				
	^{239/240} Pu	1.5E-02 ± 1.3E-02					
	¹⁰³ Ru	-8.3E-06 ± 8.3E-05	U				
	¹⁰⁶ Ru	-1.5E-02 ± 1.5E-02	U				
	¹²⁵ Sb	1.6E-04 ± 1.6E-03	U				
	¹¹³ Sn	-1.1E-03 ± 2.1E-03	U				
	⁹⁰ Sr	-3.0E-01 ± 3.0E-01	U				
	²³⁴ U	2.5E-01 ± 7.8E-02					
	²³⁵ U	1.2E-02 ± 1.0E-02					
	²³⁸ U	2.3E-01 ± 7.1E-02					
	⁶⁵ Zn	2.6E-03 ± 5.2E-03	U				

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Figure 3-10. 2004 Vegetation Sampling Locations, 100 N Area.

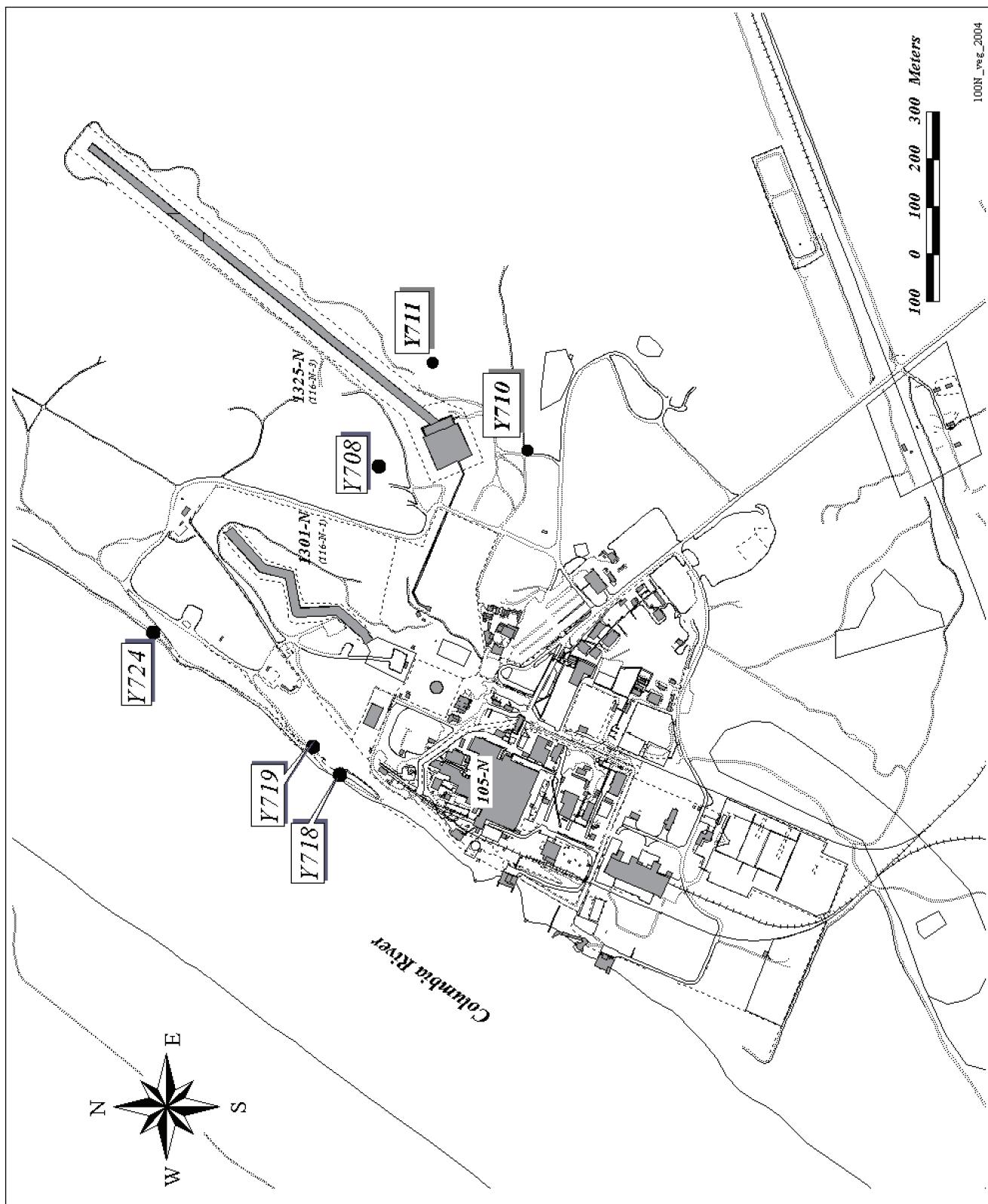


Figure 3-11. 2004 Vegetation Sampling Locations, 200 East Area.

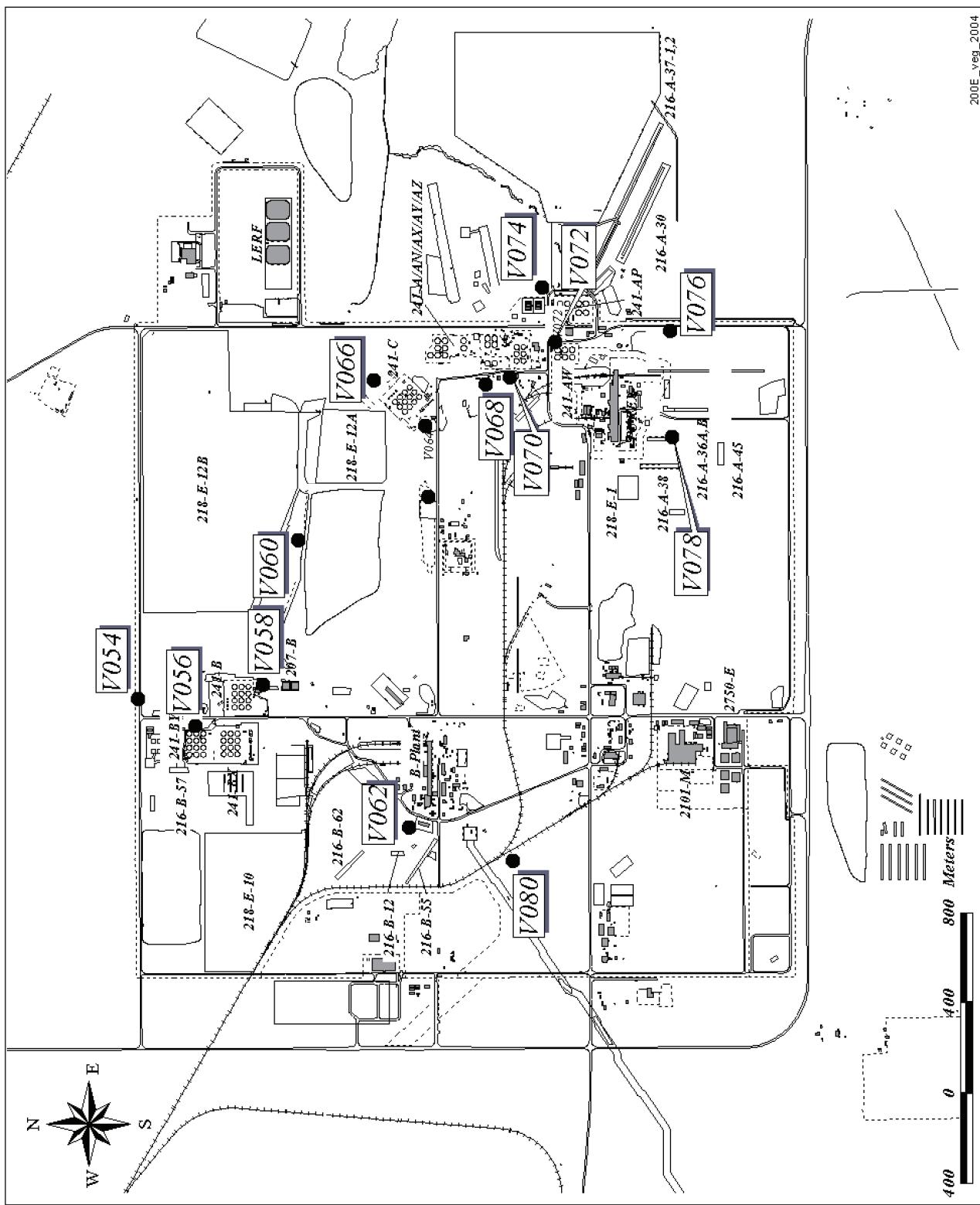


Figure 3-12. 2004 Vegetation Sampling Locations, 200 West Area.

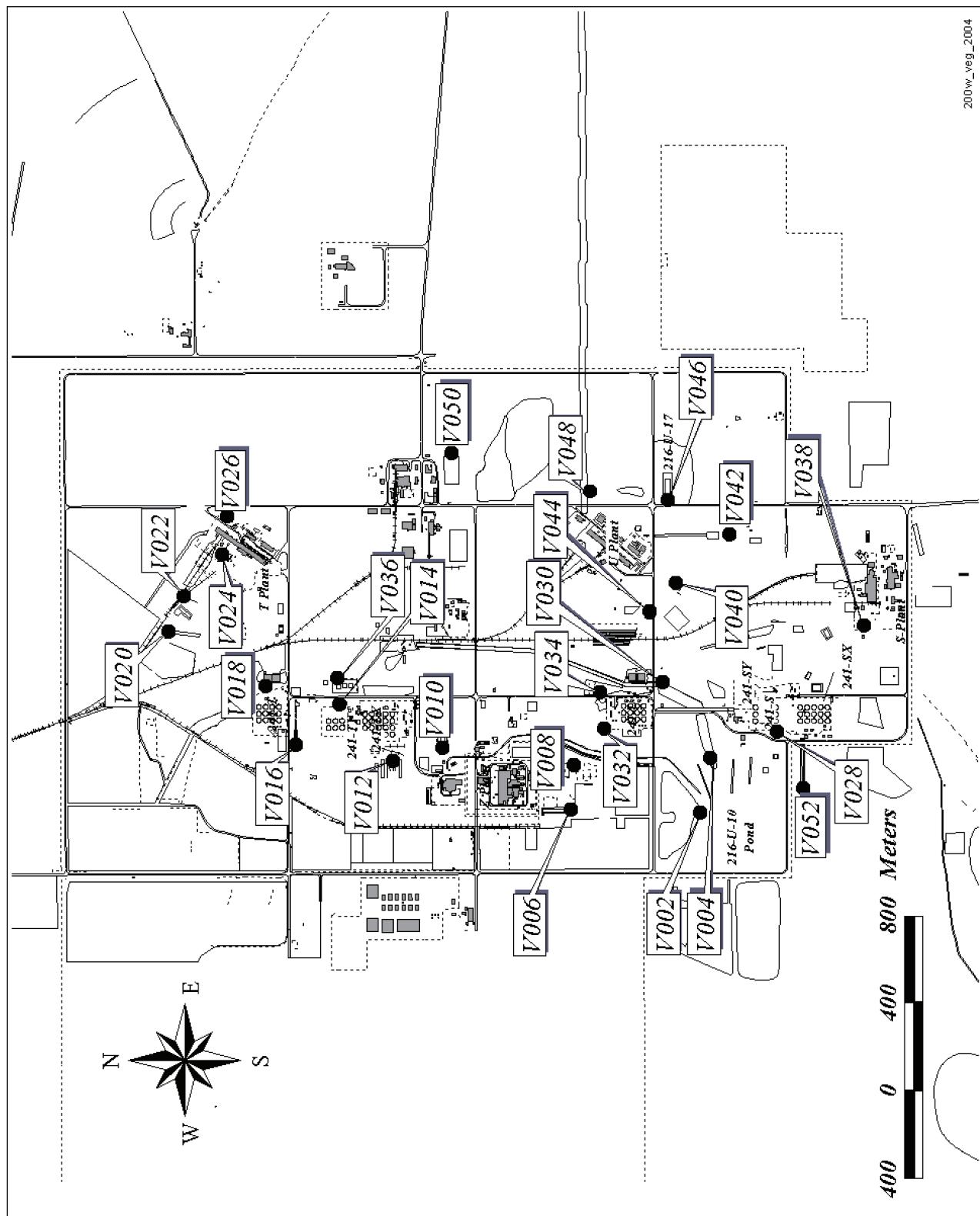


Figure 3-13. 2004 Vegetation Sampling Locations, 300 Area.

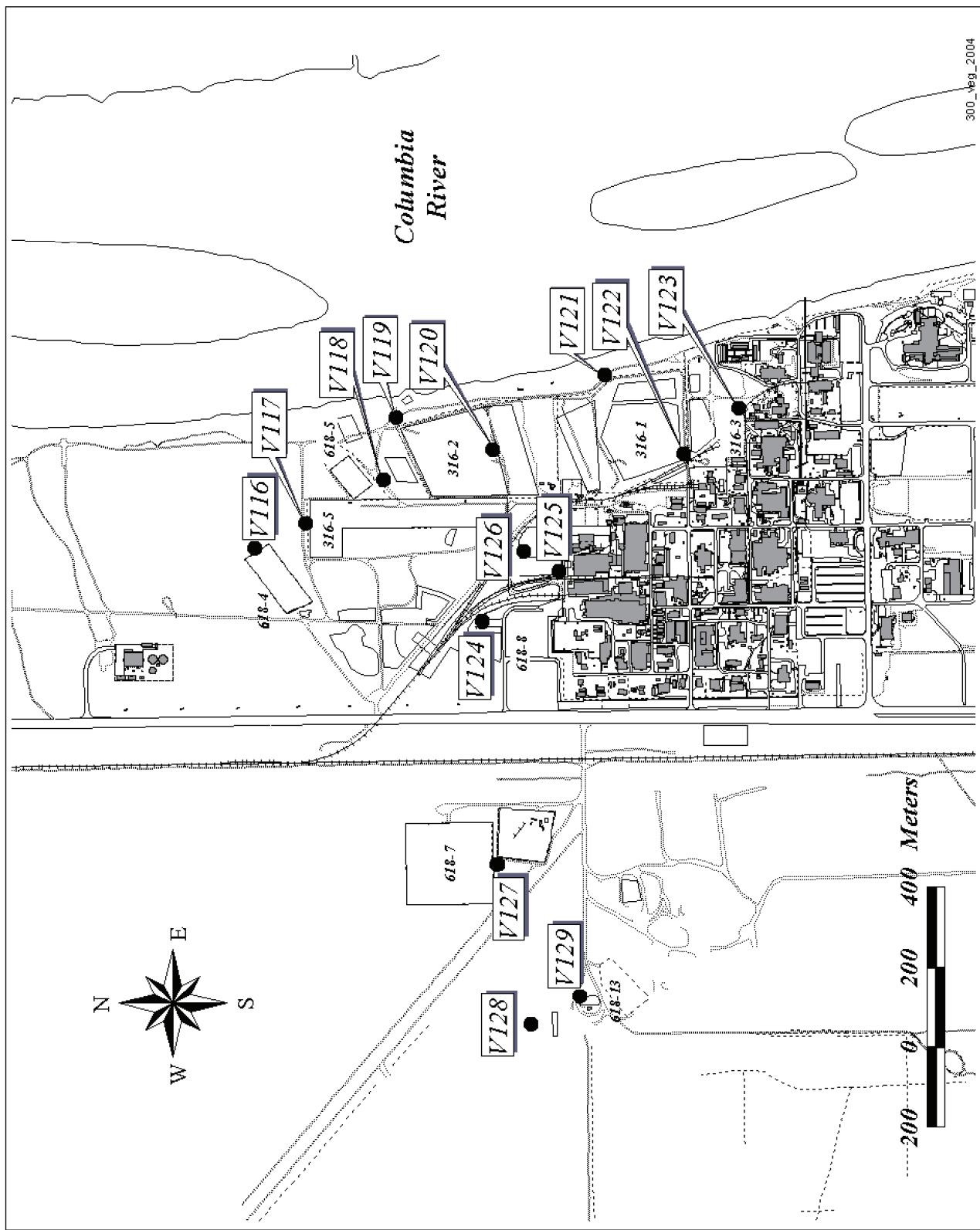


Figure 3-14. 2004 Vegetation Sampling Locations, 400 Area.

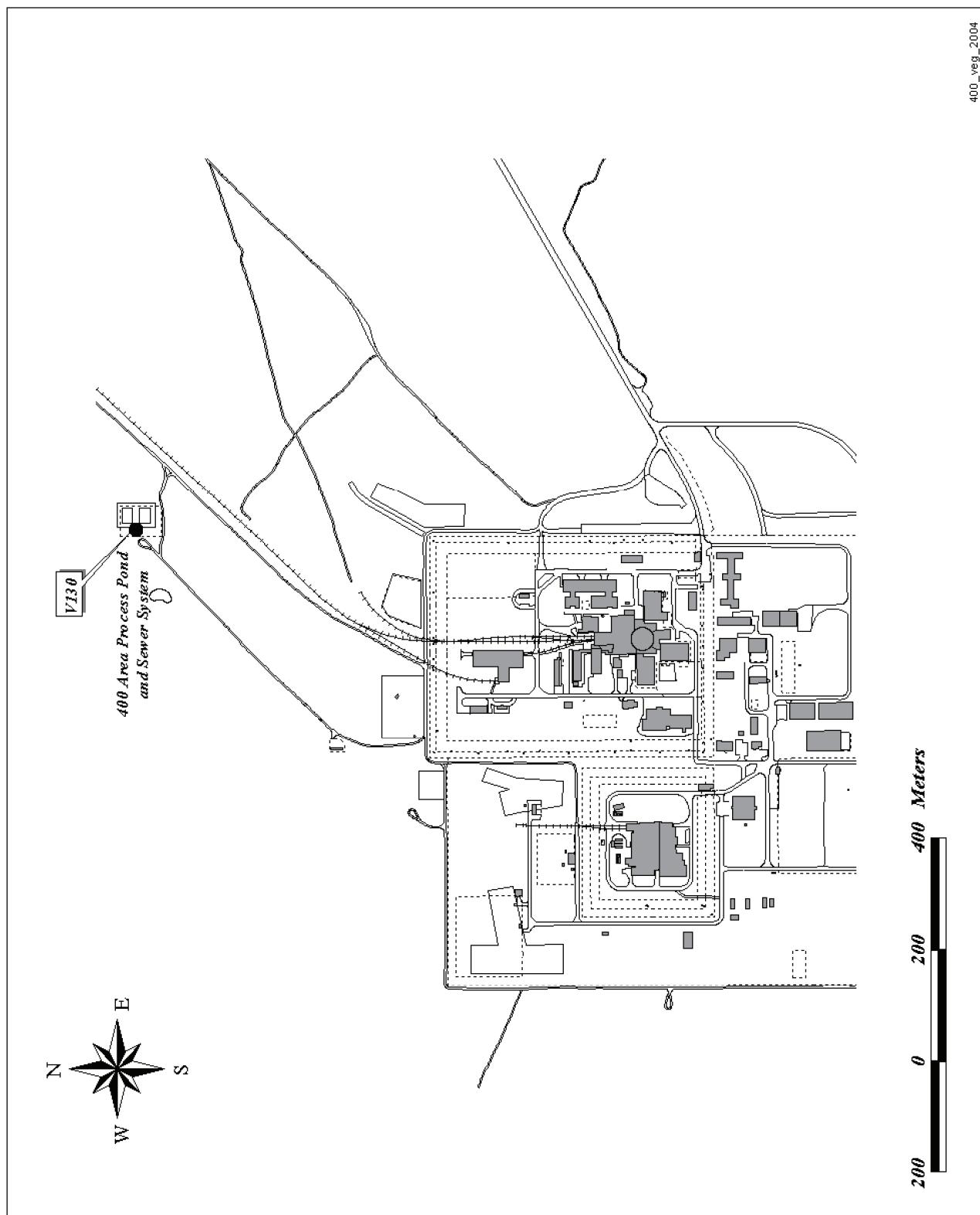


Figure 3-15. 2004 Vegetation Sampling Locations, 600 Area.

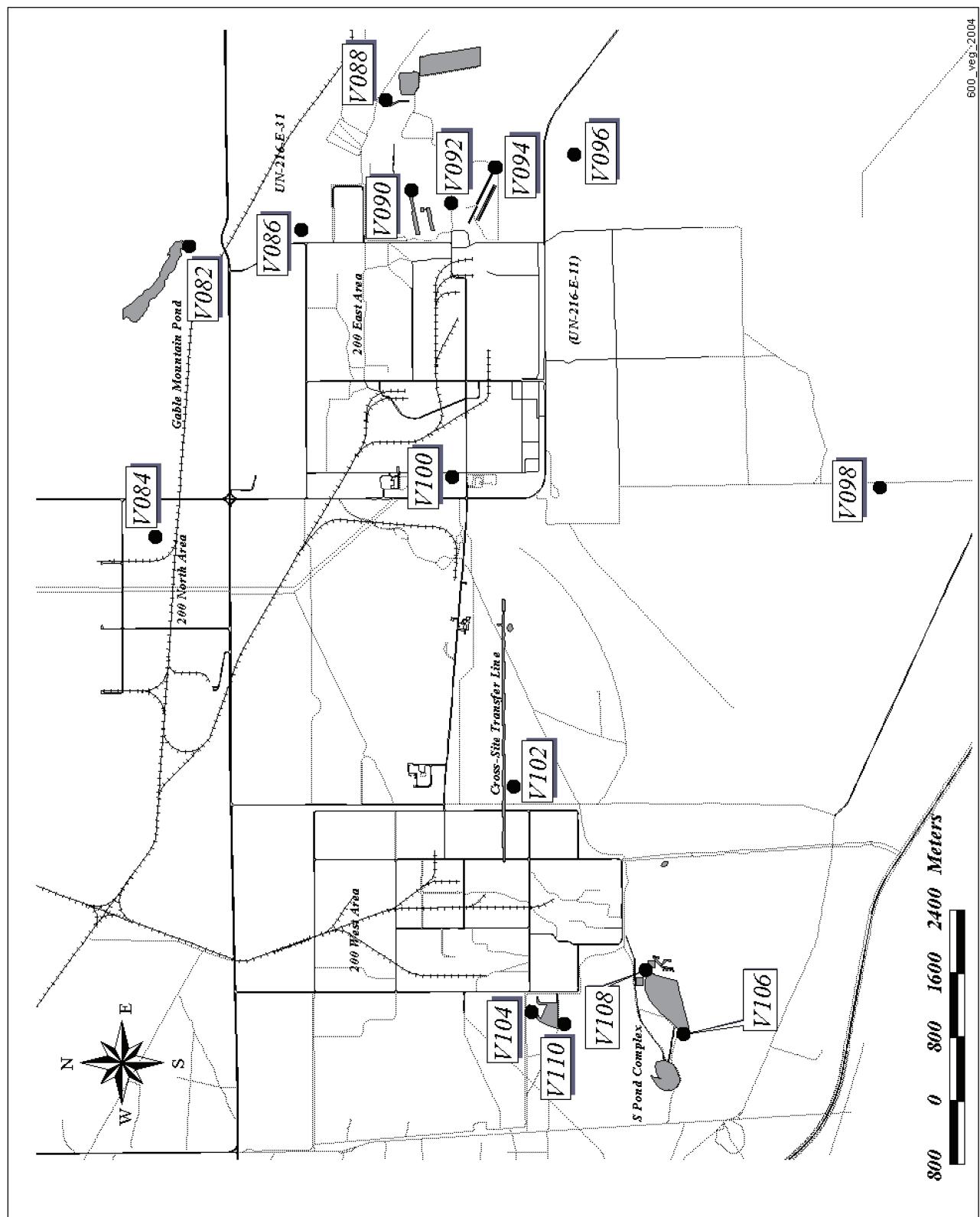


Table 3-5. Summary of Near-Facility Vegetation Sampling Results (pCi/g) for Selected Radionuclides, 2004.

Isotope	Number of			Location		
	Detects	Samples	Mean ^a	Maximum ^b	Area	Site ID
¹³⁷ Cs	10	69	3.3E-02 ± 1.3E-01	3.3E-01 ± 9.6E-02	200 East	V056
^{239/240} Pu	6	69	2.4E-03 ± 9.0E-03	2.9E-02 ± 1.4E-02	200 West	V044
⁹⁰ Sr	20	69	1.1E+00 ± 1.8E+01	6.8E+01 ± 8.2E+00	100-N	Y719
²³⁴ U	48	69	1.4E-02 ± 4.5E-02	1.8E-01 ± 5.4E-02	300 Area	V119
²³⁵ U	16	69	4.1E-03 ± 7.6E-03	3.0E-02 ± 2.3E-02	300 Area	V131
²³⁸ U	49	69	1.1E-02 ± 3.7E-02	1.5E-01 ± 4.5E-02	300 Area	V119

^a± 2 standard deviations

^b± total analytical uncertainty

Table 3-6. Average Radionuclide Concentrations (pCi/g^a) in Hanford Vegetation, 1995 through 2004.

<u>100-N Area</u>						
Year	⁶⁰Co	⁹⁰Sr	¹³⁷Cs	²³⁴U	²³⁸U	^{239,240}Pu
1995	3.0E-02 ± 5.1E-02	5.4E+00 ± 4.8E+00	8.1E-02 ± 4.4E-02	1.1E-02 ± 6.6E-03	9.2E-03 ± 4.8E-03	3.3E-03 ± 1.6E-03
1996	2.4E+00 ± 4.5E+00	2.3E+02 ± 4.4E+02	2.3E+02 ± 2.0E+02	2.6E-02 ± 3.2E-02	2.2E-02 ± 1.7E-01	-5.1E-03 ± 0.0E+00
1997	4.2E-01 ± 5.0E-02	3.6E+00 ± 5.3E+00	1.6E-01 ± 7.7E-02	1.3E-02 ± 2.9E-03	9.7E-03 ± 4.7E-03	Not Detected
1998	6.2E-01 ± 6.5E-01	1.2E+01 ± 6.0E+00	3.8E+01 ± 6.5E+01	1.4E-02 ± 6.0E-03	8.7E-03 ± 4.4E-03	4.2E-03 ± 2.3E-03
1999	6.1E-01 ± 5.9E-01	9.1E+01 ± 1.0E+02	2.5E+02 ± 2.5E+02	2.8E-02 ± 1.0E-03	2.1E-02 ± 7.0E-03	2.2E-02 ± 1.0E-02
2000	4.8E-02 ± 3.2E-02	5.7E+00 ± 8.7E+00	2.0E-01 ± 1.2E-01	3.3E-02 ± 2.7E-02	2.4E-02 ± 1.8E-02	9.1E-03 ± 8.3E-03
2001	8.9E-01 ± 1.3E+00	3.5E+00 ± 3.4E+00	3.8E-01 ± 2.2E-01	9.8E-03 ± 2.4E-03	9.2E-03 ± 2.9E-03	2.4E-02 ± 2.5E-02
2002	3.7E-03 ± 3.7E-02	5.4E+00 ± 1.8E+01	2.4E-03 ± 8.4E-03	9.8E-03 ± 4.5E-03	5.1E-03 ± 2.9E-03	1.9E-03 ± 5.3E-03
2003	6.6E-02 ± 6.8E-02	1.4E+01 ± 4.5E+01	1.5E-01 ± 1.5E-01	6.8E-03 ± 2.1E-03	4.6E-03 ± 2.9E-03	-2.8E-04 ± 7.0E-03
2004	1.5E-02 ± 1.8E-01	1.1E+01 ± 5.1E+01	4.5E-02 ± 8.7E-02	9.3E-03 ± 7.8E-03	4.8E-03 ± 2.7E-03	Not Detected

<u>200/600 Areas</u>						
Year	⁶⁰Co	⁹⁰Sr	¹³⁷Cs	²³⁴U	²³⁸U	^{239,240}Pu
1995	1.4E-02 ± 2.1E-02	1.4E-02 ± 2.1E-02	1.6E-01 ± 1.4E-01	1.1E-02 ± 6.3E-03	7.9E-03 ± 4.4E-03	4.9E-03 ± 2.9E-03
1996	2.6E-02 ± 2.4E-02	3.7E-01 ± 1.8E-01	6.9E-02 ± 3.0E-02	5.0E-03 ± 1.0E-03	5.0E-03 ± 1.0E-03	4.1E-03 ± 3.1E-03
1997	Not Detected	2.9E+00 ± 2.5E+00	1.3E-01 ± 6.0E-02	1.5E-02 ± 2.4E-03	1.1E-02 ± 2.1E-03	6.6E-03 ± 1.0E-04
1998	Not Detected	3.3E-01 ± 1.3E-01	2.1E-01 ± 9.0E-02	1.6E-02 ± 3.0E-03	9.7E-03 ± 1.3E-03	1.8E-02 ± 8.0E-03
1999	Not Detected	7.9E-01 ± 3.8E-01	1.3E-01 ± 4.0E-02	3.3E-02 ± 6.0E-03	2.3E-02 ± 4.0E-03	1.4E-02 ± 4.0E-03
2000	Not Detected	1.3E+00 ± 8.0E-01	1.6E-01 ± 6.0E-02	2.0E-02 ± 3.0E-02	1.4E-02 ± 2.0E-03	3.3E-02 ± 2.8E-02
2001	Not Detected	1.0E+00 ± 6.2E-01	1.7E-01 ± 6.5E-02	1.9E-02 ± 2.8E-03	1.8E-02 ± 2.6E-03	2.1E-02 ± 7.1E-03
2002	3.2E-04 ± 1.8E-03	3.2E-01 ± 1.1E+00	8.9E-02 ± 4.2E-01	1.6E-02 ± 1.6E-02	1.4E-02 ± 1.5E-02	8.8E-03 ± 2.4E-02
2003	1.6E-02 ± 2.1E-01	1.5E+00 ± 1.0E+01	2.7E-01 ± 2.0E+00	1.0E-02 ± 9.7E-03	8.4E-03 ± 9.0E-03	2.7E-03 ± 7.9E-03
2004	Not Detected	2.2E-01 ± 8.8E+00	4.2E-02 ± 1.4E-01	9.7E-03 ± 1.0E-02	8.2E-03 ± 9.3E-03	2.9E-03 ± 1.0E-02

<u>300/400 Areas</u>						
Year	⁶⁰Co	⁹⁰Sr	¹³⁷Cs	²³⁴U	²³⁸U	^{239,240}Pu
1995	4.0E-02 ± 3.0E-02	5.1E-02 ± 2.4E-02	Not Detected	5.6E-02 ± 4.1E-02	5.6E-02 ± 4.1E-02	3.5E-04 ± 1.9E-04
1996	7.1E-03 ± 2.0E-02	6.3E-02 ± 2.5E-02	1.6E-02 ± 1.6E-02	4.9E-02 ± 3.9E-02	4.7E-02 ± 3.8E-02	3.8E-04 ± 1.9E-04
1997	Not Detected	6.6E-01 ± 3.9E-01	Not Detected	6.9E-02 ± 4.8E-02	6.2E-02 ± 4.5E-02	4.4E-04 ± 2.9E-04
1998	Not Detected	1.0E-01 ± 6.0E-02	Not Detected	4.6E-02 ± 3.3E-02	4.4E-02 ± 3.6E-02	8.4E-03 ± 4.5E-03
1999	Not Detected	4.5E-01 ± 7.0E-02	Not Detected	9.4E-02 ± 5.3E-02	8.9E-01 ± 5.9E-02	7.1E-03 ± 3.2E-03
2000	Not Detected	2.1E-01 ± 3.0E-02	Not Detected	1.8E-02 ± 1.9E-02	1.7E-02 ± 1.9E-02	9.1E-03 ± 2.4E-03
2001	Not Detected	2.6E-01 ± 1.1E-01	Not Detected	9.8E-02 ± 8.0E-02	1.1E-01 ± 8.8E-02	5.8E-03 ± 1.5E-03
2002	Not Detected	2.1E-01 ± 4.7E-01	1.1E-02 ± 7.9E-02	3.2E-02 ± 5.5E-02	2.9E-02 ± 5.8E-02	-3.6E-04 ± 7.2E-04
2003	5.0E-03 ± 3.8E-02	-8.2E-02 ± 2.0E-01	-9.4E-03 ± 4.4E-02	4.3E-02 ± 1.1E-01	3.6E-02 ± 1.9E-01	1.7E-03 ± 1.7E-02
2004	Not Detected	Not Detected	Not Detected	3.3E-01 ± 8.8E-02	2.5E-02 ± 7.3E-02	Not Detected

(a) ± 2 standard deviations

Table 3-7. 2004 Vegetation Sampling Results (pCi/g ± total analytical uncertainty).
 (18 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
Y708 (100-N)	¹⁴⁴ Ce	1.7E-01 ± 4.9E-01	U	Y710 (100-N)	¹⁴⁴ Ce	4.4E-02 ± 4.4E-01	U
	⁶⁰ Co	-1.7E-03 ± 1.7E-02	U		⁶⁰ Co	2.1E-02 ± 3.5E-02	U
	¹³⁴ Cs	-2.2E-02 ± 3.8E-02	U		¹³⁴ Cs	2.3E-02 ± 3.5E-02	U
	¹³⁷ Cs	2.5E-02 ± 3.9E-02	U		¹³⁷ Cs	9.5E-03 ± 3.3E-02	U
	¹⁵² Eu	4.1E-02 ± 1.1E-01	U		¹⁵² Eu	5.6E-02 ± 1.0E-01	U
	¹⁵⁴ Eu	-1.5E-02 ± 1.0E-01	U		¹⁵⁴ Eu	-3.9E-02 ± 9.7E-02	U
	¹⁵⁵ Eu	3.4E-03 ± 3.4E-02	U		¹⁵⁵ Eu	-8.6E-02 ± 1.2E-01	U
	²³⁸ Pu	8.5E-04 ± 8.5E-03	U		²³⁸ Pu	8.0E-04 ± 8.0E-03	U
	^{239/240} Pu	-8.5E-04 ± 1.7E-03	U		^{239/240} Pu	8.0E-04 ± 1.6E-03	U
	¹⁰³ Ru	-3.6E-02 ± 4.1E-02	U		¹⁰³ Ru	-4.5E-03 ± 4.0E-02	U
	¹⁰⁶ Ru	-1.5E-01 ± 3.2E-01	U		¹⁰⁶ Ru	-6.3E-02 ± 3.1E-01	U
	¹²⁵ Sb	2.5E-02 ± 1.0E-01	U		¹²⁵ Sb	3.4E-02 ± 9.6E-02	U
	¹¹³ Sn	-2.5E-02 ± 5.0E-02	U		¹¹³ Sn	1.3E-02 ± 4.6E-02	U
	⁹⁰ Sr	2.3E-02 ± 1.3E-01	U		⁹⁰ Sr	-2.0E-02 ± 1.3E-01	U
	²³⁴ U	5.8E-03 ± 6.4E-03	U		²³⁴ U	1.3E-02 ± 8.2E-03	U
	²³⁵ U	1.0E-03 ± 2.0E-03	U		²³⁵ U	4.7E-03 ± 4.4E-03	U
	²³⁸ U	6.7E-03 ± 6.0E-03	U		²³⁸ U	6.1E-03 ± 4.9E-03	U
	⁶⁵ Zn	1.3E-03 ± 1.3E-02	U		⁶⁵ Zn	3.9E-02 ± 9.2E-02	U
Y711 (100-N)	¹⁴⁴ Ce	6.5E-02 ± 4.7E-01	U	Y718 (N Springs Shoreline)	¹⁴⁴ Ce	-1.5E-01 ± 1.2E+00	U
	⁶⁰ Co	1.8E-01 ± 4.6E-02			⁶⁰ Co	-7.2E-02 ± 9.1E-02	U
	¹³⁴ Cs	5.8E-03 ± 3.3E-02	U		¹³⁴ Cs	-4.9E-02 ± 9.9E-02	U
	¹³⁷ Cs	1.3E-01 ± 6.7E-02			¹³⁷ Cs	2.6E-02 ± 1.1E-01	U
	¹⁵² Eu	-1.9E-02 ± 1.0E-01	U		¹⁵² Eu	2.1E-02 ± 2.1E-01	U
	¹⁵⁴ Eu	1.7E-02 ± 9.7E-02	U		¹⁵⁴ Eu	6.7E-02 ± 2.8E-01	U
	¹⁵⁵ Eu	8.4E-02 ± 1.2E-01	U		¹⁵⁵ Eu	-1.0E-02 ± 1.0E-01	U
	²³⁸ Pu	-1.9E-02 ± 1.9E-02	U		²³⁸ Pu	4.6E-03 ± 6.9E-03	U
	^{239/240} Pu	3.2E-03 ± 6.4E-03	U		^{239/240} Pu	1.8E-03 ± 2.5E-03	U
	¹⁰³ Ru	2.4E-02 ± 3.9E-02	U		¹⁰³ Ru	3.3E-02 ± 1.1E-01	U
	¹⁰⁶ Ru	5.2E-02 ± 3.0E-01	U		¹⁰⁶ Ru	-1.6E-01 ± 8.8E-01	U
	¹²⁵ Sb	-1.2E-02 ± 9.5E-02	U		¹²⁵ Sb	3.0E-01 ± 2.7E-01	U
	¹¹³ Sn	-1.2E-02 ± 5.1E-02	U		¹¹³ Sn	-1.4E-02 ± 1.2E-01	U
	⁹⁰ Sr	-1.9E-01 ± 1.9E-01	U		⁹⁰ Sr	-4.8E-02 ± 1.2E-01	U
	²³⁴ U	5.0E-03 ± 7.5E-03	U		²³⁴ U	7.9E-03 ± 6.2E-03	U
	²³⁵ U	1.1E-03 ± 3.8E-03	U		²³⁵ U	1.9E-03 ± 4.7E-03	U
	²³⁸ U	5.0E-03 ± 4.7E-03			²³⁸ U	3.5E-03 ± 4.2E-03	U
	⁶⁵ Zn	3.4E-02 ± 8.9E-02	U		⁶⁵ Zn	-2.6E-01 ± 2.6E-01	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-7. 2004 Vegetation Sampling Results (pCi/g ± total analytical uncertainty).
(18 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
Y719 (N Springs Shoreline)	¹⁴⁴ Ce	-3.9E-01 ± 9.1E-01	U	Y724 (N Springs Shoreline)	¹⁴⁴ Ce	4.7E-01 ± 1.0E+00	U
	⁶⁰ Co	9.3E-03 ± 7.4E-02	U		⁶⁰ Co	-4.7E-02 ± 7.1E-02	U
	¹³⁴ Cs	4.2E-02 ± 6.8E-02	U		¹³⁴ Cs	9.8E-03 ± 7.8E-02	U
	¹³⁷ Cs	5.2E-02 ± 7.2E-02	U		¹³⁷ Cs	3.0E-02 ± 6.8E-02	U
	¹⁵² Eu	-1.9E-02 ± 1.8E-01	U		¹⁵² Eu	-1.2E-01 ± 2.0E-01	U
	¹⁵⁴ Eu	1.2E-01 ± 2.0E-01	U		¹⁵⁴ Eu	8.5E-02 ± 1.9E-01	U
	¹⁵⁵ Eu	1.2E-01 ± 2.6E-01	U		¹⁵⁵ Eu	-2.1E-01 ± 2.5E-01	U
	²³⁸ Pu	1.6E-03 ± 3.2E-03	U		²³⁸ Pu	-8.5E-04 ± 3.0E-03	U
	^{239/240} Pu	8.3E-04 ± 8.3E-03	U		^{239/240} Pu	8.4E-04 ± 8.4E-03	U
	¹⁰³ Ru	-7.1E-02 ± 7.3E-02	U		¹⁰³ Ru	-2.4E-02 ± 7.4E-02	U
	¹⁰⁶ Ru	-2.5E-01 ± 6.1E-01	U		¹⁰⁶ Ru	9.1E-02 ± 6.1E-01	U
	¹²⁵ Sb	6.9E-02 ± 1.7E-01	U		¹²⁵ Sb	3.3E-02 ± 1.8E-01	U
	¹¹³ Sn	-1.7E-02 ± 8.3E-02	U		¹¹³ Sn	-3.9E-02 ± 8.8E-02	U
	⁹⁰ Sr	6.8E+01 ± 8.2E+00			⁹⁰ Sr	1.8E-01 ± 1.3E-01	
	²³⁴ U	8.3E-03 ± 5.9E-03			²³⁴ U	1.6E-02 ± 8.8E-03	
	²³⁵ U	3.0E-03 ± 3.6E-03			²³⁵ U	4.0E-03 ± 4.8E-03	U
	²³⁸ U	4.6E-03 ± 5.5E-03	U		²³⁸ U	2.8E-03 ± 3.4E-03	
	⁶⁵ Zn	-3.2E-01 ± 3.2E-01	U		⁶⁵ Zn	-2.3E-02 ± 1.5E-01	U
V002 (200 West)	¹⁴⁴ Ce	-3.5E-01 ± 3.8E-01	U	V004 (200 West)	¹⁴⁴ Ce	1.9E-01 ± 5.6E-01	U
	⁶⁰ Co	3.8E-02 ± 2.8E-02	U		⁶⁰ Co	-1.9E-02 ± 4.4E-02	U
	¹³⁴ Cs	6.7E-03 ± 2.9E-02	U		¹³⁴ Cs	2.6E-02 ± 4.3E-02	U
	¹³⁷ Cs	-7.0E-03 ± 2.7E-02	U		¹³⁷ Cs	3.9E-02 ± 4.1E-02	U
	¹⁵² Eu	1.2E-02 ± 7.8E-02	U		¹⁵² Eu	-6.3E-02 ± 1.3E-01	U
	¹⁵⁴ Eu	1.1E-02 ± 8.2E-02	U		¹⁵⁴ Eu	-9.1E-02 ± 1.3E-01	U
	¹⁵⁵ Eu	-7.2E-02 ± 1.0E-01	U		¹⁵⁵ Eu	-9.5E-02 ± 1.5E-01	U
	²³⁸ Pu	-1.6E-03 ± 3.8E-03	U		²³⁸ Pu	1.8E-03 ± 2.5E-03	U
	^{239/240} Pu	5.8E-03 ± 4.5E-03			^{239/240} Pu	9.1E-04 ± 1.8E-03	U
	¹⁰³ Ru	-1.9E-02 ± 3.1E-02	U		¹⁰³ Ru	1.3E-02 ± 4.1E-02	U
	¹⁰⁶ Ru	-5.5E-02 ± 2.5E-01	U		¹⁰⁶ Ru	-3.0E-02 ± 3.0E-01	U
	¹²⁵ Sb	-3.4E-02 ± 7.8E-02	U		¹²⁵ Sb	3.7E-04 ± 3.7E-03	U
	¹¹³ Sn	-2.8E-02 ± 3.6E-02	U		¹¹³ Sn	-4.3E-02 ± 5.0E-02	U
	⁹⁰ Sr	1.3E-01 ± 1.6E-01	U		⁹⁰ Sr	1.6E+00 ± 3.2E-01	
	²³⁴ U	7.7E-03 ± 6.5E-03	U		²³⁴ U	9.8E-04 ± 5.2E-03	U
	²³⁵ U	2.8E-03 ± 4.2E-03	U		²³⁵ U	2.1E-03 ± 2.9E-03	U
	²³⁸ U	2.6E-03 ± 4.7E-03	U		²³⁸ U	4.9E-03 ± 4.6E-03	
	⁶⁵ Zn	-8.7E-02 ± 8.7E-02	U		⁶⁵ Zn	-6.6E-02 ± 1.0E-01	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-7. 2004 Vegetation Sampling Results (pCi/g ± total analytical uncertainty).
 (18 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
V006 (200 West)	¹⁴⁴ Ce	-2.8E-02 ± 2.8E-01	U	V008 (200 West)	¹⁴⁴ Ce	-3.1E-01 ± 9.5E-01	U
	⁶⁰ Co	1.8E-02 ± 3.4E-02	U		⁶⁰ Co	-4.4E-02 ± 7.9E-02	U
	¹³⁴ Cs	1.5E-02 ± 3.5E-02	U		¹³⁴ Cs	-2.3E-03 ± 2.3E-02	U
	¹³⁷ Cs	-3.6E-02 ± 3.6E-02	U		¹³⁷ Cs	-9.3E-03 ± 8.6E-02	U
	¹⁵² Eu	2.4E-02 ± 1.0E-01	U		¹⁵² Eu	9.3E-02 ± 2.1E-01	U
	¹⁵⁴ Eu	3.9E-02 ± 1.0E-01	U		¹⁵⁴ Eu	2.7E-01 ± 2.7E-01	U
	¹⁵⁵ Eu	-5.7E-02 ± 1.2E-01	U		¹⁵⁵ Eu	-3.2E-02 ± 2.3E-01	U
	²³⁸ Pu	8.4E-04 ± 3.8E-03	U		²³⁸ Pu	1.2E-02 ± 1.7E-02	U
	^{239/240} Pu	8.4E-04 ± 8.4E-03	U		^{239/240} Pu	4.2E-03 ± 5.9E-03	U
	¹⁰³ Ru	-2.5E-02 ± 3.9E-02	U		¹⁰³ Ru	-5.2E-02 ± 9.1E-02	U
	¹⁰⁶ Ru	-2.1E-01 ± 3.1E-01	U		¹⁰⁶ Ru	2.2E-02 ± 2.2E-01	U
	¹²⁵ Sb	2.8E-02 ± 9.4E-02	U		¹²⁵ Sb	-7.2E-03 ± 7.2E-02	U
	¹¹³ Sn	-2.9E-02 ± 4.9E-02	U		¹¹³ Sn	1.9E-02 ± 1.0E-01	U
	⁹⁰ Sr	-2.5E+01 ± 2.5E+01	U		⁹⁰ Sr	8.4E-01 ± 1.7E-01	U
	²³⁴ U	1.1E-02 ± 9.0E-03	U		²³⁴ U	8.7E-03 ± 5.9E-03	U
	²³⁵ U	9.4E-04 ± 9.4E-03	U		²³⁵ U	3.8E-03 ± 3.8E-03	U
	²³⁸ U	1.8E-02 ± 9.4E-03			²³⁸ U	4.3E-03 ± 4.0E-03	
	⁶⁵ Zn	-5.9E-03 ± 5.9E-02	U		⁶⁵ Zn	-2.1E-01 ± 2.1E-01	U
V010 (200 West)	¹⁴⁴ Ce	2.1E-01 ± 7.4E-01	U	V012 (200 West)	¹⁴⁴ Ce	7.7E-02 ± 5.7E-01	U
	⁶⁰ Co	-2.3E-02 ± 5.8E-02	U		⁶⁰ Co	7.5E-03 ± 4.2E-02	U
	¹³⁴ Cs	-2.3E-02 ± 5.7E-02	U		¹³⁴ Cs	-4.7E-02 ± 4.7E-02	U
	¹³⁷ Cs	3.4E-02 ± 5.3E-02	U		¹³⁷ Cs	4.5E-02 ± 4.7E-02	U
	¹⁵² Eu	3.1E-02 ± 1.5E-01	U		¹⁵² Eu	4.6E-02 ± 1.3E-01	U
	¹⁵⁴ Eu	-1.1E-01 ± 1.8E-01	U		¹⁵⁴ Eu	1.1E-02 ± 1.1E-01	U
	¹⁵⁵ Eu	-1.3E-01 ± 2.1E-01	U		¹⁵⁵ Eu	-5.8E-02 ± 1.5E-01	U
	²³⁸ Pu	-2.3E-03 ± 9.2E-03	U		²³⁸ Pu	-9.8E-04 ± 8.0E-03	U
	^{239/240} Pu	3.5E-03 ± 5.2E-03	U		^{239/240} Pu	4.9E-03 ± 7.4E-03	U
	¹⁰³ Ru	-2.2E-02 ± 5.8E-02	U		¹⁰³ Ru	-1.1E-02 ± 4.7E-02	U
	¹⁰⁶ Ru	3.6E-01 ± 4.7E-01	U		¹⁰⁶ Ru	-8.2E-02 ± 3.8E-01	U
	¹²⁵ Sb	-6.9E-02 ± 1.4E-01	U		¹²⁵ Sb	-4.4E-02 ± 1.2E-01	U
	¹¹³ Sn	-4.3E-02 ± 6.6E-02	U		¹¹³ Sn	6.6E-03 ± 5.6E-02	U
	⁹⁰ Sr	9.8E-01 ± 2.0E-01			⁹⁰ Sr	-1.4E-01 ± 1.4E-01	U
	²³⁴ U	3.0E-03 ± 5.4E-03	U		²³⁴ U	1.2E-02 ± 7.8E-03	
	²³⁵ U	5.5E-03 ± 5.1E-03			²³⁵ U	3.1E-03 ± 3.7E-03	
	²³⁸ U	6.0E-03 ± 5.2E-03			²³⁸ U	1.2E-02 ± 7.3E-03	
	⁶⁵ Zn	2.6E-02 ± 1.3E-01	U		⁶⁵ Zn	9.8E-02 ± 9.1E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-7. 2004 Vegetation Sampling Results (pCi/g ± total analytical uncertainty).
(18 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
V016 (200 West)	¹⁴⁴ Ce	6.5E-01 ± 6.3E-01	U	V020 (200 West)	¹⁴⁴ Ce	-1.6E-02 ± 1.6E-01	U
	⁶⁰ Co	3.7E-02 ± 5.2E-02	U		⁶⁰ Co	7.0E-03 ± 6.1E-02	U
	¹³⁴ Cs	6.8E-03 ± 5.3E-02	U		¹³⁴ Cs	-2.0E-02 ± 6.1E-02	U
	¹³⁷ Cs	1.5E-02 ± 5.1E-02	U		¹³⁷ Cs	1.6E-01 ± 9.4E-02	
	¹⁵² Eu	6.8E-02 ± 1.4E-01	U		¹⁵² Eu	-1.2E-01 ± 1.5E-01	U
	¹⁵⁴ Eu	-5.5E-02 ± 1.6E-01	U		¹⁵⁴ Eu	-1.0E-01 ± 2.0E-01	U
	¹⁵⁵ Eu	4.1E-02 ± 1.7E-01	U		¹⁵⁵ Eu	-1.2E-01 ± 1.7E-01	U
	²³⁸ Pu	-1.5E-02 ± 1.5E-02	U		²³⁸ Pu	5.2E-03 ± 1.9E-02	U
	^{239/240} Pu	1.0E-03 ± 4.5E-03	U		^{239/240} Pu	2.1E-03 ± 5.9E-03	U
	¹⁰³ Ru	3.1E-02 ± 5.0E-02	U		¹⁰³ Ru	5.3E-03 ± 5.3E-02	U
	¹⁰⁶ Ru	3.0E-01 ± 4.6E-01	U		¹⁰⁶ Ru	1.0E-01 ± 5.1E-01	U
	¹²⁵ Sb	-7.1E-02 ± 1.4E-01	U		¹²⁵ Sb	-6.3E-02 ± 1.4E-01	U
	¹¹³ Sn	-2.7E-02 ± 5.8E-02	U		¹¹³ Sn	-3.8E-02 ± 6.7E-02	U
	⁹⁰ Sr	1.3E+00 ± 2.6E-01			⁹⁰ Sr	3.0E-01 ± 1.5E-01	
	²³⁴ U	2.8E-02 ± 1.3E-02			²³⁴ U	9.2E-03 ± 6.3E-03	
	²³⁵ U	4.6E-03 ± 5.1E-03	U		²³⁵ U	4.0E-03 ± 4.8E-03	U
	²³⁸ U	2.0E-02 ± 9.6E-03			²³⁸ U	5.6E-03 ± 5.5E-03	
	⁶⁵ Zn	1.4E-01 ± 1.3E-01	U		⁶⁵ Zn	-1.5E-04 ± 1.5E-03	U
V022 (200 West)	¹⁴⁴ Ce	-9.3E-02 ± 8.2E-01	U	V026 (200 West)	¹⁴⁴ Ce	1.4E-01 ± 7.5E-01	U
	⁶⁰ Co	1.1E-02 ± 6.1E-02	U		⁶⁰ Co	-6.4E-02 ± 6.4E-02	U
	¹³⁴ Cs	-3.2E-02 ± 5.9E-02	U		¹³⁴ Cs	-7.1E-03 ± 5.6E-02	U
	¹³⁷ Cs	8.2E-02 ± 6.6E-02	U		¹³⁷ Cs	2.4E-02 ± 6.0E-02	U
	¹⁵² Eu	-1.3E-01 ± 2.1E-01	U		¹⁵² Eu	7.5E-02 ± 1.8E-01	U
	¹⁵⁴ Eu	-4.8E-05 ± 4.8E-04	U		¹⁵⁴ Eu	8.7E-02 ± 1.7E-01	U
	¹⁵⁵ Eu	2.9E-02 ± 2.3E-01	U		¹⁵⁵ Eu	-2.0E-02 ± 1.9E-01	U
	²³⁸ Pu	-1.2E-02 ± 1.8E-02	U		²³⁸ Pu	9.2E-03 ± 1.0E-02	U
	^{239/240} Pu	-1.9E-03 ± 3.8E-03	U		^{239/240} Pu	2.0E-03 ± 5.6E-03	U
	¹⁰³ Ru	-3.4E-02 ± 6.3E-02	U		¹⁰³ Ru	4.8E-02 ± 6.6E-02	U
	¹⁰⁶ Ru	-1.4E-01 ± 5.0E-01	U		¹⁰⁶ Ru	5.3E-01 ± 6.6E-01	U
	¹²⁵ Sb	-1.3E-02 ± 1.3E-01	U		¹²⁵ Sb	6.3E-02 ± 1.4E-01	U
	¹¹³ Sn	-7.6E-03 ± 7.6E-02	U		¹¹³ Sn	3.5E-02 ± 7.3E-02	U
	⁹⁰ Sr	8.7E-01 ± 1.9E-01			⁹⁰ Sr	-2.9E-02 ± 1.2E-01	U
	²³⁴ U	7.0E-03 ± 6.3E-03	U		²³⁴ U	9.3E-03 ± 7.8E-03	U
	²³⁵ U	1.9E-03 ± 3.8E-03	U		²³⁵ U	6.1E-03 ± 5.2E-03	
	²³⁸ U	7.0E-03 ± 5.8E-03			²³⁸ U	5.6E-03 ± 4.8E-03	
	⁶⁵ Zn	7.9E-02 ± 1.4E-01	U		⁶⁵ Zn	6.5E-03 ± 6.5E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-7. 2004 Vegetation Sampling Results (pCi/g ± total analytical uncertainty).
 (18 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
V030 (200 West)	¹⁴⁴ Ce	-3.0E-01 ± 6.1E-01	U	V032 (200 West)	¹⁴⁴ Ce	-1.1E-01 ± 5.9E-01	U
	⁶⁰ Co	-9.9E-03 ± 4.6E-02	U		⁶⁰ Co	1.0E-02 ± 4.0E-02	U
	¹³⁴ Cs	-4.1E-03 ± 4.1E-02	U		¹³⁴ Cs	3.6E-03 ± 3.6E-02	U
	¹³⁷ Cs	3.1E-03 ± 3.1E-02	U		¹³⁷ Cs	4.0E-02 ± 4.8E-02	U
	¹⁵² Eu	1.3E-01 ± 1.3E-01	U		¹⁵² Eu	4.1E-02 ± 1.3E-01	U
	¹⁵⁴ Eu	-3.2E-02 ± 1.2E-01	U		¹⁵⁴ Eu	-1.0E-02 ± 1.0E-01	U
	¹⁵⁵ Eu	-7.6E-02 ± 1.6E-01	U		¹⁵⁵ Eu	-1.0E-01 ± 1.4E-01	U
	²³⁸ Pu	-6.6E-03 ± 9.2E-03	U		²³⁸ Pu	8.5E-03 ± 8.5E-03	U
	^{239/240} Pu	5.6E-03 ± 6.7E-03	U		^{239/240} Pu	5.3E-03 ± 4.9E-03	
	¹⁰³ Ru	-6.3E-03 ± 5.2E-02	U		¹⁰³ Ru	-1.8E-02 ± 4.0E-02	U
	¹⁰⁶ Ru	1.5E-02 ± 1.5E-01	U		¹⁰⁶ Ru	5.2E-02 ± 3.9E-01	U
	¹²⁵ Sb	-1.7E-02 ± 1.2E-01	U		¹²⁵ Sb	-2.9E-03 ± 2.9E-02	U
	¹¹³ Sn	-2.2E-02 ± 5.7E-02	U		¹¹³ Sn	-1.3E-02 ± 5.6E-02	U
	⁹⁰ Sr	1.4E+00 ± 2.8E-01			⁹⁰ Sr	2.6E-01 ± 1.4E-01	
	²³⁴ U	1.2E-02 ± 7.9E-03			²³⁴ U	1.2E-02 ± 7.1E-03	
	²³⁵ U	3.7E-03 ± 3.7E-03			²³⁵ U	5.7E-03 ± 4.9E-03	
	²³⁸ U	5.1E-03 ± 5.0E-03	U		²³⁸ U	1.2E-02 ± 7.1E-03	
	⁶⁵ Zn	7.4E-02 ± 1.2E-01	U		⁶⁵ Zn	8.1E-03 ± 8.1E-02	U
V034 (200 West)	¹⁴⁴ Ce	-5.3E-01 ± 8.1E-01	U	V036 (200 West)	¹⁴⁴ Ce	1.3E-01 ± 6.2E-01	U
	⁶⁰ Co	-3.3E-02 ± 6.2E-02	U		⁶⁰ Co	2.2E-02 ± 5.3E-02	U
	¹³⁴ Cs	-1.8E-02 ± 5.9E-02	U		¹³⁴ Cs	-6.0E-03 ± 4.8E-02	U
	¹³⁷ Cs	2.0E-01 ± 1.0E-01			¹³⁷ Cs	2.3E-02 ± 4.6E-02	U
	¹⁵² Eu	-1.7E-01 ± 1.7E-01	U		¹⁵² Eu	6.5E-02 ± 1.3E-01	U
	¹⁵⁴ Eu	-1.6E-01 ± 1.9E-01	U		¹⁵⁴ Eu	-6.0E-02 ± 1.5E-01	U
	¹⁵⁵ Eu	-6.2E-02 ± 2.3E-01	U		¹⁵⁵ Eu	-2.4E-02 ± 1.5E-01	U
	²³⁸ Pu	-2.3E-03 ± 1.0E-02	U		²³⁸ Pu	-9.8E-03 ± 2.0E-02	U
	^{239/240} Pu	1.1E-03 ± 1.1E-02	U		^{239/240} Pu	1.4E-03 ± 1.4E-02	U
	¹⁰³ Ru	-1.1E-02 ± 6.5E-02	U		¹⁰³ Ru	1.2E-02 ± 5.4E-02	U
	¹⁰⁶ Ru	-2.8E-01 ± 5.1E-01	U		¹⁰⁶ Ru	1.3E-01 ± 4.2E-01	U
	¹²⁵ Sb	-9.2E-02 ± 1.5E-01	U		¹²⁵ Sb	8.9E-02 ± 1.3E-01	U
	¹¹³ Sn	1.2E-02 ± 7.1E-02	U		¹¹³ Sn	-5.8E-02 ± 6.1E-02	U
	⁹⁰ Sr	1.7E+01 ± 3.4E+00			⁹⁰ Sr	6.8E-01 ± 1.7E-01	
	²³⁴ U	1.7E-02 ± 8.7E-03			²³⁴ U	4.1E-03 ± 4.9E-03	U
	²³⁵ U	5.7E-03 ± 4.9E-03			²³⁵ U	1.8E-03 ± 2.5E-03	U
	²³⁸ U	8.7E-03 ± 6.4E-03			²³⁸ U	5.7E-03 ± 4.6E-03	
	⁶⁵ Zn	1.7E-02 ± 1.4E-01	U		⁶⁵ Zn	-2.0E-01 ± 2.0E-01	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-7. 2004 Vegetation Sampling Results (pCi/g ± total analytical uncertainty).
 (18 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
V038 (200 West)	¹⁴⁴ Ce	-1.8E-01 ± 4.9E-01	U	V040 (200 West)	¹⁴⁴ Ce	1.0E-01 ± 6.9E-01	U
	⁶⁰ Co	4.4E-03 ± 3.4E-02	U		⁶⁰ Co	7.9E-03 ± 4.8E-02	U
	¹³⁴ Cs	-2.2E-03 ± 2.2E-02	U		¹³⁴ Cs	1.2E-03 ± 1.2E-02	U
	¹³⁷ Cs	2.5E-02 ± 4.0E-02	U		¹³⁷ Cs	2.5E-02 ± 5.0E-02	U
	¹⁵² Eu	-1.9E-02 ± 1.1E-01	U		¹⁵² Eu	-3.1E-02 ± 1.5E-01	U
	¹⁵⁴ Eu	-4.9E-02 ± 9.6E-02	U		¹⁵⁴ Eu	-8.2E-02 ± 1.4E-01	U
	¹⁵⁵ Eu	1.4E-02 ± 1.4E-01	U		¹⁵⁵ Eu	-8.4E-03 ± 8.4E-02	U
	²³⁸ Pu	6.0E-03 ± 1.6E-02	U		²³⁸ Pu	-1.0E-02 ± 1.9E-02	U
	^{239/240} Pu	1.2E-03 ± 5.4E-03	U		^{239/240} Pu	5.5E-03 ± 5.1E-03	U
	¹⁰³ Ru	2.6E-03 ± 2.6E-02	U		¹⁰³ Ru	-6.9E-03 ± 5.7E-02	U
	¹⁰⁶ Ru	-6.2E-02 ± 3.2E-01	U		¹⁰⁶ Ru	-4.7E-02 ± 4.4E-01	U
	¹²⁵ Sb	4.9E-02 ± 9.9E-02	U		¹²⁵ Sb	4.4E-02 ± 1.4E-01	U
	¹¹³ Sn	4.2E-03 ± 4.2E-02	U		¹¹³ Sn	-8.6E-03 ± 6.7E-02	U
	⁹⁰ Sr	-1.8E-01 ± 1.8E-01	U		⁹⁰ Sr	-1.6E-01 ± 1.6E-01	U
	²³⁴ U	1.1E-02 ± 8.2E-03			²³⁴ U	8.3E-03 ± 5.6E-03	
	²³⁵ U	2.8E-03 ± 3.4E-03			²³⁵ U	1.8E-03 ± 4.5E-03	
	²³⁸ U	8.5E-03 ± 6.3E-03			²³⁸ U	1.6E-02 ± 8.6E-03	
	⁶⁵ Zn	-1.9E-03 ± 1.9E-02	U		⁶⁵ Zn	1.3E-01 ± 1.2E-01	U
V042 (200 West)	¹⁴⁴ Ce	6.0E-02 ± 6.0E-01	U	V044 (200 West)	¹⁴⁴ Ce	2.9E-01 ± 8.1E-01	U
	⁶⁰ Co	3.5E-02 ± 6.2E-02	U		⁶⁰ Co	7.8E-02 ± 6.6E-02	U
	¹³⁴ Cs	-2.3E-02 ± 6.4E-02	U		¹³⁴ Cs	8.6E-03 ± 6.6E-02	U
	¹³⁷ Cs	-1.5E-02 ± 6.0E-02	U		¹³⁷ Cs	-1.5E-03 ± 1.5E-02	U
	¹⁵² Eu	-1.9E-02 ± 1.6E-01	U		¹⁵² Eu	1.9E-02 ± 1.8E-01	U
	¹⁵⁴ Eu	-2.0E-02 ± 1.8E-01	U		¹⁵⁴ Eu	2.1E-02 ± 1.9E-01	U
	¹⁵⁵ Eu	-4.8E-02 ± 1.9E-01	U		¹⁵⁵ Eu	-5.8E-02 ± 2.1E-01	U
	²³⁸ Pu	7.7E-03 ± 1.7E-02	U		²³⁸ Pu	-2.2E-03 ± 1.7E-02	U
	^{239/240} Pu	2.2E-03 ± 5.5E-03	U		^{239/240} Pu	2.9E-02 ± 1.4E-02	
	¹⁰³ Ru	2.9E-02 ± 6.4E-02	U		¹⁰³ Ru	-3.5E-02 ± 7.1E-02	U
	¹⁰⁶ Ru	-3.1E-01 ± 5.6E-01	U		¹⁰⁶ Ru	1.4E-01 ± 5.8E-01	U
	¹²⁵ Sb	1.1E-02 ± 1.1E-01	U		¹²⁵ Sb	1.0E-01 ± 1.6E-01	U
	¹¹³ Sn	-1.5E-02 ± 7.1E-02	U		¹¹³ Sn	-3.4E-04 ± 3.4E-03	U
	⁹⁰ Sr	-1.3E-01 ± 1.6E-01	U		⁹⁰ Sr	-1.3E-01 ± 1.4E-01	U
	²³⁴ U	7.7E-03 ± 6.9E-03	U		²³⁴ U	1.4E-02 ± 8.0E-03	
	²³⁵ U	2.8E-03 ± 3.4E-03			²³⁵ U	2.6E-03 ± 3.1E-03	
	²³⁸ U	1.4E-02 ± 8.3E-03			²³⁸ U	1.0E-02 ± 6.1E-03	
	⁶⁵ Zn	1.6E-02 ± 1.6E-01	U		⁶⁵ Zn	-2.7E-01 ± 2.7E-01	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-7. 2004 Vegetation Sampling Results (pCi/g ± total analytical uncertainty).
 (18 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
V046 (200 West)	¹⁴⁴ Ce	-1.5E-01 ± 8.7E-01	U	V048 (200 West)	¹⁴⁴ Ce	-2.4E-01 ± 5.0E-01	U
	⁶⁰ Co	-1.2E-02 ± 6.4E-02	U		⁶⁰ Co	-6.0E-03 ± 3.6E-02	U
	¹³⁴ Cs	1.7E-02 ± 7.5E-02	U		¹³⁴ Cs	-8.8E-03 ± 3.8E-02	U
	¹³⁷ Cs	2.0E-02 ± 6.2E-02	U		¹³⁷ Cs	3.9E-02 ± 4.0E-02	U
	¹⁵² Eu	-1.8E-01 ± 1.9E-01	U		¹⁵² Eu	1.1E-01 ± 1.2E-01	U
	¹⁵⁴ Eu	-4.9E-02 ± 1.8E-01	U		¹⁵⁴ Eu	-4.9E-03 ± 4.9E-02	U
	¹⁵⁵ Eu	-5.1E-03 ± 5.1E-02	U		¹⁵⁵ Eu	-9.9E-02 ± 1.4E-01	U
	²³⁸ Pu	1.1E-03 ± 1.1E-02	U		²³⁸ Pu	-8.7E-03 ± 1.8E-02	U
	^{239/240} Pu	4.3E-03 ± 5.2E-03	U		^{239/240} Pu	3.7E-03 ± 4.4E-03	
	¹⁰³ Ru	4.7E-02 ± 7.3E-02	U		¹⁰³ Ru	-2.5E-02 ± 4.5E-02	U
	¹⁰⁶ Ru	-4.3E-01 ± 5.6E-01	U		¹⁰⁶ Ru	-1.5E-01 ± 3.4E-01	U
	¹²⁵ Sb	-6.2E-02 ± 1.6E-01	U		¹²⁵ Sb	3.4E-02 ± 1.0E-01	U
	¹¹³ Sn	4.5E-02 ± 7.9E-02	U		¹¹³ Sn	-9.6E-03 ± 5.0E-02	U
	⁹⁰ Sr	-1.4E-02 ± 1.1E-01	U		⁹⁰ Sr	-8.1E-02 ± 1.1E-01	U
	²³⁴ U	1.4E-02 ± 8.5E-03			²³⁴ U	1.2E-02 ± 7.0E-03	
	²³⁵ U	2.0E-03 ± 2.8E-03	U		²³⁵ U	2.6E-03 ± 3.1E-03	
	²³⁸ U	9.0E-03 ± 6.1E-03			²³⁸ U	8.1E-03 ± 6.4E-03	
	⁶⁵ Zn	-6.3E-02 ± 1.3E-01	U		⁶⁵ Zn	-1.5E-01 ± 1.5E-01	U
V050 (200 West)	¹⁴⁴ Ce	5.0E-01 ± 5.6E-01	U	V052 (200 West)	¹⁴⁴ Ce	-5.2E-01 ± 8.0E-01	U
	⁶⁰ Co	6.0E-03 ± 4.0E-02	U		⁶⁰ Co	-2.8E-02 ± 5.4E-02	U
	¹³⁴ Cs	2.5E-02 ± 4.4E-02	U		¹³⁴ Cs	-4.9E-02 ± 5.9E-02	U
	¹³⁷ Cs	2.7E-02 ± 4.3E-02	U		¹³⁷ Cs	6.0E-02 ± 5.9E-02	U
	¹⁵² Eu	-3.0E-02 ± 1.2E-01	U		¹⁵² Eu	-2.7E-01 ± 2.7E-01	U
	¹⁵⁴ Eu	1.9E-01 ± 1.5E-01	U		¹⁵⁴ Eu	-2.4E-02 ± 1.5E-01	U
	¹⁵⁵ Eu	2.1E-02 ± 1.5E-01	U		¹⁵⁵ Eu	6.0E-02 ± 2.2E-01	U
	²³⁸ Pu	-4.8E-03 ± 2.2E-02	U		²³⁸ Pu	5.8E-03 ± 2.0E-02	U
	^{239/240} Pu	1.2E-03 ± 5.4E-03	U		^{239/240} Pu	5.8E-03 ± 7.0E-03	U
	¹⁰³ Ru	2.4E-02 ± 4.9E-02	U		¹⁰³ Ru	1.5E-02 ± 6.0E-02	U
	¹⁰⁶ Ru	-1.5E-01 ± 3.7E-01	U		¹⁰⁶ Ru	-4.5E-02 ± 4.5E-01	U
	¹²⁵ Sb	-6.9E-02 ± 1.1E-01	U		¹²⁵ Sb	2.5E-02 ± 1.5E-01	U
	¹¹³ Sn	5.8E-02 ± 5.7E-02	U		¹¹³ Sn	5.5E-03 ± 5.5E-02	U
	⁹⁰ Sr	3.4E-01 ± 1.4E-01			⁹⁰ Sr	2.5E-02 ± 1.0E-01	U
	²³⁴ U	9.6E-03 ± 7.2E-03			²³⁴ U	9.3E-03 ± 6.9E-03	
	²³⁵ U	2.9E-03 ± 4.4E-03	U		²³⁵ U	4.1E-03 ± 4.1E-03	
	²³⁸ U	9.6E-03 ± 6.2E-03			²³⁸ U	6.5E-03 ± 5.2E-03	
	⁶⁵ Zn	-4.1E-02 ± 1.2E-01	U		⁶⁵ Zn	-1.9E-01 ± 1.9E-01	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-7. 2004 Vegetation Sampling Results (pCi/g ± total analytical uncertainty).
 (18 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
V054 (200 East)	¹⁴⁴ Ce	-2.8E-04 ± 2.8E-03	U	V056 (200 East)	¹⁴⁴ Ce	3.5E-01 ± 5.5E-01	U
	⁶⁰ Co	8.1E-03 ± 5.4E-02	U		⁶⁰ Co	3.3E-02 ± 4.1E-02	U
	¹³⁴ Cs	-4.0E-02 ± 5.5E-02	U		¹³⁴ Cs	-3.7E-02 ± 4.5E-02	U
	¹³⁷ Cs	-1.7E-02 ± 5.8E-02	U		¹³⁷ Cs	3.3E-01 ± 9.6E-02	
	¹⁵² Eu	1.9E-01 ± 1.4E-01	U		¹⁵² Eu	1.2E-01 ± 1.3E-01	U
	¹⁵⁴ Eu	-1.3E-02 ± 1.3E-01	U		¹⁵⁴ Eu	-3.2E-02 ± 1.3E-01	U
	¹⁵⁵ Eu	-4.8E-02 ± 1.5E-01	U		¹⁵⁵ Eu	8.9E-02 ± 1.4E-01	U
	²³⁸ Pu	-1.4E-03 ± 1.4E-02	U		²³⁸ Pu	-4.9E-03 ± 1.3E-02	U
	^{239/240} Pu	5.4E-03 ± 5.4E-03			^{239/240} Pu	9.8E-04 ± 9.8E-03	U
	¹⁰³ Ru	-2.8E-02 ± 5.3E-02	U		¹⁰³ Ru	-2.0E-02 ± 4.5E-02	U
	¹⁰⁶ Ru	-3.6E-01 ± 4.6E-01	U		¹⁰⁶ Ru	-2.3E-01 ± 3.6E-01	U
	¹²⁵ Sb	-1.2E-01 ± 1.3E-01	U		¹²⁵ Sb	9.7E-02 ± 1.2E-01	U
	¹¹³ Sn	-6.3E-03 ± 5.8E-02	U		¹¹³ Sn	1.4E-03 ± 1.4E-02	U
	⁹⁰ Sr	-6.4E-02 ± 9.7E-02	U		⁹⁰ Sr	1.3E-01 ± 1.2E-01	U
	²³⁴ U	9.1E-03 ± 6.4E-03			²³⁴ U	1.5E-02 ± 9.0E-03	
	²³⁵ U	2.7E-03 ± 4.1E-03	U		²³⁵ U	5.4E-03 ± 4.6E-03	
	²³⁸ U	5.8E-03 ± 5.7E-03	U		²³⁸ U	8.2E-03 ± 6.9E-03	U
	⁶⁵ Zn	4.6E-02 ± 1.3E-01	U		⁶⁵ Zn	3.3E-03 ± 3.3E-02	U
V058 (200 East)	¹⁴⁴ Ce	-3.7E-01 ± 4.8E-01	U	V060 (200 East)	¹⁴⁴ Ce	-2.8E-01 ± 6.3E-01	U
	⁶⁰ Co	-6.4E-03 ± 3.8E-02	U		⁶⁰ Co	2.6E-02 ± 4.4E-02	U
	¹³⁴ Cs	-9.2E-03 ± 3.6E-02	U		¹³⁴ Cs	-3.5E-02 ± 4.6E-02	U
	¹³⁷ Cs	2.7E-01 ± 9.1E-02			¹³⁷ Cs	1.8E-01 ± 8.6E-02	
	¹⁵² Eu	-4.4E-02 ± 1.0E-01	U		¹⁵² Eu	-3.7E-02 ± 1.3E-01	U
	¹⁵⁴ Eu	-8.5E-02 ± 1.2E-01	U		¹⁵⁴ Eu	-7.5E-02 ± 1.5E-01	U
	¹⁵⁵ Eu	7.1E-02 ± 1.2E-01	U		¹⁵⁵ Eu	6.8E-03 ± 6.8E-02	U
	²³⁸ Pu	1.0E-03 ± 1.0E-02	U		²³⁸ Pu	-1.8E-02 ± 2.0E-02	U
	^{239/240} Pu	1.1E-03 ± 1.1E-02	U		^{239/240} Pu	1.2E-03 ± 1.2E-02	U
	¹⁰³ Ru	7.5E-04 ± 7.5E-03	U		¹⁰³ Ru	5.2E-03 ± 4.7E-02	U
	¹⁰⁶ Ru	-2.9E-02 ± 2.9E-01	U		¹⁰⁶ Ru	-2.7E-01 ± 4.0E-01	U
	¹²⁵ Sb	-1.7E-02 ± 9.8E-02	U		¹²⁵ Sb	-7.7E-03 ± 7.7E-02	U
	¹¹³ Sn	2.9E-02 ± 4.6E-02	U		¹¹³ Sn	1.0E-02 ± 5.4E-02	U
	⁹⁰ Sr	3.6E+00 ± 5.0E-01			⁹⁰ Sr	9.0E-01 ± 1.9E-01	
	²³⁴ U	7.8E-03 ± 5.8E-03			²³⁴ U	1.1E-02 ± 6.9E-03	
	²³⁵ U	4.3E-03 ± 5.2E-03	U		²³⁵ U	4.1E-03 ± 4.1E-03	
	²³⁸ U	1.2E-02 ± 8.0E-03			²³⁸ U	6.6E-03 ± 5.3E-03	
	⁶⁵ Zn	-3.0E-02 ± 1.1E-01	U		⁶⁵ Zn	9.5E-02 ± 1.2E-01	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-7. 2004 Vegetation Sampling Results (pCi/g ± total analytical uncertainty).
 (18 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
V062 (200 East)	¹⁴⁴ Ce	-9.3E-02 ± 5.3E-01	U	V064 (200 East)	¹⁴⁴ Ce	6.6E-02 ± 3.1E-01	U
	⁶⁰ Co	2.4E-02 ± 3.9E-02	U		⁶⁰ Co	-2.1E-03 ± 2.1E-02	U
	¹³⁴ Cs	-5.3E-03 ± 4.3E-02	U		¹³⁴ Cs	6.6E-04 ± 6.6E-03	U
	¹³⁷ Cs	1.0E-02 ± 4.2E-02	U		¹³⁷ Cs	8.0E-03 ± 2.4E-02	U
	¹⁵² Eu	-3.0E-02 ± 1.2E-01	U		¹⁵² Eu	4.9E-02 ± 6.8E-02	U
	¹⁵⁴ Eu	-1.2E-02 ± 1.2E-01	U		¹⁵⁴ Eu	-2.3E-02 ± 7.7E-02	U
	¹⁵⁵ Eu	-1.1E-02 ± 1.1E-01	U		¹⁵⁵ Eu	2.1E-02 ± 8.5E-02	U
	²³⁸ Pu	-1.2E-03 ± 1.2E-02	U		²³⁸ Pu	-5.4E-03 ± 1.4E-02	U
	^{239/240} Pu	1.2E-03 ± 1.2E-02	U		^{239/240} Pu	-1.1E-03 ± 2.2E-03	U
	¹⁰³ Ru	-5.1E-03 ± 4.6E-02	U		¹⁰³ Ru	-1.6E-02 ± 2.5E-02	U
	¹⁰⁶ Ru	4.3E-01 ± 5.3E-01	U		¹⁰⁶ Ru	2.2E-02 ± 2.0E-01	U
	¹²⁵ Sb	-5.1E-02 ± 1.1E-01	U		¹²⁵ Sb	-3.4E-02 ± 6.5E-02	U
	¹¹³ Sn	-4.4E-03 ± 4.4E-02	U		¹¹³ Sn	-9.6E-03 ± 3.0E-02	U
	⁹⁰ Sr	-3.7E-02 ± 9.6E-02	U		⁹⁰ Sr	6.6E-02 ± 1.1E-01	U
	²³⁴ U	6.8E-03 ± 5.6E-03			²³⁴ U	1.8E-03 ± 2.5E-03	U
	²³⁵ U	8.5E-04 ± 8.5E-03	U		²³⁵ U	4.0E-03 ± 4.0E-03	
	²³⁸ U	8.5E-03 ± 6.3E-03			²³⁸ U	6.4E-03 ± 5.1E-03	
	⁶⁵ Zn	-2.2E-01 ± 2.2E-01	U		⁶⁵ Zn	2.0E-03 ± 2.0E-02	U
V066 (200 East)	¹⁴⁴ Ce	-2.2E-02 ± 2.2E-01	U	V068 (200 East)	¹⁴⁴ Ce	-1.2E-01 ± 7.6E-01	U
	⁶⁰ Co	1.5E-02 ± 3.7E-02	U		⁶⁰ Co	-1.6E-02 ± 6.1E-02	U
	¹³⁴ Cs	1.5E-02 ± 3.8E-02	U		¹³⁴ Cs	8.0E-04 ± 8.0E-03	U
	¹³⁷ Cs	9.4E-02 ± 7.3E-02			¹³⁷ Cs	5.2E-02 ± 6.3E-02	U
	¹⁵² Eu	1.1E-02 ± 1.1E-01	U		¹⁵² Eu	1.1E-01 ± 1.6E-01	U
	¹⁵⁴ Eu	5.1E-02 ± 1.1E-01	U		¹⁵⁴ Eu	-1.5E-01 ± 1.8E-01	U
	¹⁵⁵ Eu	-1.5E-02 ± 1.1E-01	U		¹⁵⁵ Eu	4.6E-02 ± 2.0E-01	U
	²³⁸ Pu	-8.6E-03 ± 1.4E-02	U		²³⁸ Pu	-1.0E-02 ± 1.6E-02	U
	^{239/240} Pu	-1.1E-03 ± 3.8E-03	U		^{239/240} Pu	9.4E-04 ± 9.4E-03	U
	¹⁰³ Ru	-2.5E-02 ± 4.0E-02	U		¹⁰³ Ru	-6.0E-02 ± 6.5E-02	U
	¹⁰⁶ Ru	-9.7E-02 ± 3.1E-01	U		¹⁰⁶ Ru	-2.1E-01 ± 5.6E-01	U
	¹²⁵ Sb	-1.1E-02 ± 1.0E-01	U		¹²⁵ Sb	1.1E-01 ± 1.5E-01	U
	¹¹³ Sn	-3.4E-03 ± 3.4E-02	U		¹¹³ Sn	-1.1E-02 ± 7.1E-02	U
	⁹⁰ Sr	1.5E-01 ± 1.3E-01	U		⁹⁰ Sr	1.4E-01 ± 1.3E-01	U
	²³⁴ U	1.4E-02 ± 8.8E-03			²³⁴ U	4.3E-03 ± 5.2E-03	U
	²³⁵ U	2.0E-03 ± 4.0E-03	U		²³⁵ U	7.1E-03 ± 7.0E-03	U
	²³⁸ U	2.2E-02 ± 1.1E-02			²³⁸ U	3.2E-03 ± 4.8E-03	U
	⁶⁵ Zn	6.1E-02 ± 8.6E-02	U		⁶⁵ Zn	-2.3E-01 ± 2.3E-01	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-7. 2004 Vegetation Sampling Results (pCi/g ± total analytical uncertainty).
 (18 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
V074 (200 East)	¹⁴⁴ Ce	1.8E-01 ± 4.7E-01	U	V076 (200 East)	¹⁴⁴ Ce	8.0E-02 ± 2.8E-01	U
	⁶⁰ Co	3.3E-02 ± 4.0E-02	U		⁶⁰ Co	4.3E-03 ± 2.1E-02	U
	¹³⁴ Cs	1.8E-02 ± 3.9E-02	U		¹³⁴ Cs	-1.0E-02 ± 2.2E-02	U
	¹³⁷ Cs	-8.1E-03 ± 3.8E-02	U		¹³⁷ Cs	6.6E-02 ± 4.3E-02	U
	¹⁵² Eu	1.3E-01 ± 1.1E-01	U		¹⁵² Eu	-6.5E-02 ± 6.5E-02	U
	¹⁵⁴ Eu	-8.1E-02 ± 1.3E-01	U		¹⁵⁴ Eu	-4.1E-02 ± 7.4E-02	U
	¹⁵⁵ Eu	7.1E-03 ± 7.1E-02	U		¹⁵⁵ Eu	-1.7E-02 ± 7.1E-02	U
	²³⁸ Pu	2.9E-03 ± 1.4E-02	U		²³⁸ Pu	2.9E-03 ± 1.3E-02	U
	^{239/240} Pu	9.7E-04 ± 9.7E-03	U		^{239/240} Pu	9.8E-04 ± 4.4E-03	U
	¹⁰³ Ru	1.8E-02 ± 3.7E-02	U		¹⁰³ Ru	-6.5E-03 ± 2.1E-02	U
	¹⁰⁶ Ru	6.7E-03 ± 6.7E-02	U		¹⁰⁶ Ru	-2.3E-01 ± 2.3E-01	U
	¹²⁵ Sb	-4.7E-02 ± 9.6E-02	U		¹²⁵ Sb	2.5E-02 ± 5.7E-02	U
	¹¹³ Sn	-2.6E-02 ± 4.4E-02	U		¹¹³ Sn	5.0E-03 ± 2.7E-02	U
	⁹⁰ Sr	7.6E-01 ± 1.9E-01			⁹⁰ Sr	-2.2E-02 ± 9.9E-02	U
	²³⁴ U	1.7E-03 ± 4.2E-03	U		²³⁴ U	1.8E-02 ± 1.0E-02	
	²³⁵ U	1.9E-03 ± 2.7E-03	U		²³⁵ U	4.5E-03 ± 8.1E-03	U
	²³⁸ U	7.0E-03 ± 5.2E-03			²³⁸ U	1.2E-02 ± 8.5E-03	
	⁶⁵ Zn	-2.1E-01 ± 2.1E-01	U		⁶⁵ Zn	-1.0E-01 ± 1.0E-01	U
V078 (200 East)	¹⁴⁴ Ce	7.3E-02 ± 2.9E-01	U	V082 (600 Area)	¹⁴⁴ Ce	1.7E-01 ± 4.0E-01	U
	⁶⁰ Co	1.5E-02 ± 2.2E-02	U		⁶⁰ Co	-9.9E-04 ± 9.9E-03	U
	¹³⁴ Cs	1.7E-03 ± 1.7E-02	U		¹³⁴ Cs	-7.9E-03 ± 3.2E-02	U
	¹³⁷ Cs	-1.1E-03 ± 1.1E-02	U		¹³⁷ Cs	2.3E-02 ± 3.4E-02	U
	¹⁵² Eu	-4.0E-03 ± 4.0E-02	U		¹⁵² Eu	7.4E-03 ± 7.4E-02	U
	¹⁵⁴ Eu	-1.0E-02 ± 6.7E-02	U		¹⁵⁴ Eu	-3.5E-02 ± 1.1E-01	U
	¹⁵⁵ Eu	5.2E-03 ± 5.2E-02	U		¹⁵⁵ Eu	2.3E-02 ± 1.0E-01	U
	²³⁸ Pu	4.8E-03 ± 1.1E-02	U		²³⁸ Pu	-9.0E-03 ± 1.4E-02	U
	^{239/240} Pu	3.8E-03 ± 5.3E-03	U		^{239/240} Pu	-1.0E-03 ± 3.5E-03	U
	¹⁰³ Ru	1.4E-02 ± 2.3E-02	U		¹⁰³ Ru	1.0E-02 ± 3.0E-02	U
	¹⁰⁶ Ru	3.6E-02 ± 2.0E-01	U		¹⁰⁶ Ru	-4.2E-02 ± 2.8E-01	U
	¹²⁵ Sb	-3.0E-02 ± 6.7E-02	U		¹²⁵ Sb	-1.2E-02 ± 8.5E-02	U
	¹¹³ Sn	-2.4E-02 ± 2.9E-02	U		¹¹³ Sn	-1.3E-02 ± 3.7E-02	U
	⁹⁰ Sr	1.4E-01 ± 1.2E-01	U		⁹⁰ Sr	2.5E-01 ± 1.3E-01	
	²³⁴ U	1.2E-02 ± 8.0E-03			²³⁴ U	5.4E-03 ± 5.3E-03	U
	²³⁵ U	5.6E-03 ± 5.2E-03			²³⁵ U	4.9E-03 ± 4.6E-03	
	²³⁸ U	1.4E-02 ± 8.3E-03			²³⁸ U	7.2E-03 ± 6.0E-03	
	⁶⁵ Zn	-1.7E-01 ± 1.7E-01	U		⁶⁵ Zn	-2.1E-01 ± 2.1E-01	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-7. 2004 Vegetation Sampling Results (pCi/g ± total analytical uncertainty).
 (18 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
V084 (600 Area)	¹⁴⁴ Ce	-2.8E-01 ± 8.6E-01	U	V086 (600 Area)	¹⁴⁴ Ce	-3.0E-01 ± 4.2E-01	U
	⁶⁰ Co	4.0E-02 ± 6.9E-02	U		⁶⁰ Co	-1.3E-02 ± 2.5E-02	U
	¹³⁴ Cs	7.3E-02 ± 7.9E-02	U		¹³⁴ Cs	1.9E-02 ± 3.5E-02	U
	¹³⁷ Cs	1.6E-02 ± 7.9E-02	U		¹³⁷ Cs	2.9E-02 ± 3.0E-02	U
	¹⁵² Eu	7.4E-03 ± 7.4E-02	U		¹⁵² Eu	7.4E-03 ± 7.3E-02	U
	¹⁵⁴ Eu	3.4E-02 ± 2.1E-01	U		¹⁵⁴ Eu	3.9E-02 ± 8.4E-02	U
	¹⁵⁵ Eu	1.2E-01 ± 2.0E-01	U		¹⁵⁵ Eu	-1.3E-01 ± 1.3E-01	U
	²³⁸ Pu	6.0E-03 ± 1.7E-02	U		²³⁸ Pu	1.8E-03 ± 1.4E-02	U
	^{239/240} Pu	1.0E-03 ± 2.0E-03	U		^{239/240} Pu	8.8E-04 ± 8.8E-03	U
	¹⁰³ Ru	1.7E-02 ± 7.4E-02	U		¹⁰³ Ru	-1.7E-02 ± 3.0E-02	U
	¹⁰⁶ Ru	-2.4E-01 ± 6.2E-01	U		¹⁰⁶ Ru	-1.4E-01 ± 2.8E-01	U
	¹²⁵ Sb	-7.6E-03 ± 7.6E-02	U		¹²⁵ Sb	-2.3E-02 ± 7.7E-02	U
	¹¹³ Sn	-5.8E-03 ± 5.8E-02	U		¹¹³ Sn	1.4E-02 ± 3.7E-02	U
	⁹⁰ Sr	3.6E-02 ± 1.1E-01	U		⁹⁰ Sr	7.9E-02 ± 1.1E-01	U
	²³⁴ U	6.8E-03 ± 5.1E-03			²³⁴ U	4.0E-03 ± 6.8E-03	U
	²³⁵ U	5.6E-03 ± 4.8E-03			²³⁵ U	2.6E-03 ± 3.1E-03	
	²³⁸ U	4.3E-03 ± 4.7E-03	U		²³⁸ U	4.0E-03 ± 4.4E-03	U
	⁶⁵ Zn	-6.8E-02 ± 1.7E-01	U		⁶⁵ Zn	-1.8E-02 ± 6.5E-02	U
V090 (600 Area)	¹⁴⁴ Ce	3.8E-01 ± 5.1E-01	U	V092 (600 Area)	¹⁴⁴ Ce	5.3E-02 ± 9.3E-02	
	⁶⁰ Co	6.9E-03 ± 4.2E-02	U		⁶⁰ Co	-3.7E-03 ± 1.1E-02	
	¹³⁴ Cs	2.2E-02 ± 4.0E-02	U		¹³⁴ Cs	-3.9E-04 ± 3.9E-03	
	¹³⁷ Cs	2.9E-02 ± 3.9E-02	U		¹³⁷ Cs	1.9E-02 ± 1.5E-02	
	¹⁵² Eu	3.9E-02 ± 1.1E-01	U		¹⁵² Eu	-1.1E-02 ± 2.5E-02	
	¹⁵⁴ Eu	-6.1E-02 ± 1.4E-01	U		¹⁵⁴ Eu	1.6E-03 ± 1.5E-02	
	¹⁵⁵ Eu	-1.5E-01 ± 1.5E-01	U		¹⁵⁵ Eu	1.5E-03 ± 1.5E-02	
	²³⁸ Pu	-1.8E-02 ± 1.8E-02	U		²³⁸ Pu	-2.7E-03 ± 1.5E-02	U
	^{239/240} Pu	-3.0E-03 ± 4.5E-03	U		^{239/240} Pu	1.8E-03 ± 4.5E-03	U
	¹⁰³ Ru	-2.6E-03 ± 2.6E-02	U		¹⁰³ Ru	-3.9E-03 ± 7.7E-03	
	¹⁰⁶ Ru	5.7E-02 ± 3.3E-01	U		¹⁰⁶ Ru	1.2E-03 ± 1.2E-02	
	¹²⁵ Sb	-5.3E-02 ± 1.1E-01	U		¹²⁵ Sb	1.5E-02 ± 2.1E-02	
	¹¹³ Sn	-2.5E-02 ± 4.7E-02	U		¹¹³ Sn	-4.9E-03 ± 9.4E-03	
	⁹⁰ Sr	1.6E+00 ± 3.2E-01			⁹⁰ Sr	2.2E+00 ± 4.4E-01	
	²³⁴ U	1.4E-02 ± 8.1E-03			²³⁴ U	1.0E-02 ± 7.1E-03	
	²³⁵ U	1.0E-03 ± 1.0E-02	U		²³⁵ U	6.7E-03 ± 5.4E-03	
	²³⁸ U	8.4E-03 ± 6.0E-03			²³⁸ U	1.6E-02 ± 8.6E-03	
	⁶⁵ Zn	-4.3E-02 ± 1.2E-01	U		⁶⁵ Zn	-2.1E-02 ± 2.5E-02	

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-7. 2004 Vegetation Sampling Results (pCi/g ± total analytical uncertainty).
 (18 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
V094 (600 Area)	¹⁴⁴ Ce	-1.7E-01 ± 4.5E-01	U	V096 (600 Area)	¹⁴⁴ Ce	-6.0E-02 ± 3.6E-01	U
	⁶⁰ Co	2.6E-05 ± 2.6E-04	U		⁶⁰ Co	2.0E-03 ± 2.0E-02	U
	¹³⁴ Cs	-4.2E-03 ± 4.2E-02	U		¹³⁴ Cs	6.9E-03 ± 2.9E-02	U
	¹³⁷ Cs	-1.3E-02 ± 4.2E-02	U		¹³⁷ Cs	9.8E-05 ± 9.8E-04	U
	¹⁵² Eu	6.2E-02 ± 1.1E-01	U		¹⁵² Eu	-8.6E-02 ± 8.6E-02	U
	¹⁵⁴ Eu	5.4E-02 ± 1.3E-01	U		¹⁵⁴ Eu	-2.0E-02 ± 7.1E-02	U
	¹⁵⁵ Eu	-9.5E-02 ± 1.3E-01	U		¹⁵⁵ Eu	-4.5E-02 ± 9.9E-02	U
	²³⁸ Pu	-2.9E-03 ± 1.4E-02	U		²³⁸ Pu	7.3E-03 ± 1.5E-02	U
	^{239/240} Pu	1.9E-03 ± 4.7E-03	U		^{239/240} Pu	9.1E-04 ± 9.1E-03	U
	¹⁰³ Ru	-3.3E-02 ± 4.0E-02	U		¹⁰³ Ru	-2.5E-02 ± 2.5E-02	U
	¹⁰⁶ Ru	-7.3E-02 ± 3.9E-01	U		¹⁰⁶ Ru	-1.0E-01 ± 2.8E-01	U
	¹²⁵ Sb	4.8E-02 ± 1.0E-01	U		¹²⁵ Sb	2.1E-03 ± 2.1E-02	U
	¹¹³ Sn	-7.7E-04 ± 7.7E-03	U		¹¹³ Sn	-1.3E-02 ± 3.1E-02	U
	⁹⁰ Sr	-5.2E-02 ± 8.8E-02	U		⁹⁰ Sr	-1.9E-01 ± 1.9E-01	U
	²³⁴ U	4.9E-03 ± 5.9E-03	U		²³⁴ U	2.6E-03 ± 3.9E-03	U
	²³⁵ U	2.7E-03 ± 3.2E-03			²³⁵ U	6.5E-03 ± 5.2E-03	
	²³⁸ U	5.8E-03 ± 4.6E-03			²³⁸ U	8.5E-04 ± 3.0E-03	
	⁶⁵ Zn	-1.1E-01 ± 1.1E-01	U		⁶⁵ Zn	-2.5E-02 ± 5.3E-02	U
V098 (600 Area)	¹⁴⁴ Ce	2.9E-01 ± 4.8E-01	U	V100 (600 Area)	¹⁴⁴ Ce	2.1E-01 ± 4.6E-01	U
	⁶⁰ Co	3.6E-03 ± 3.6E-02	U		⁶⁰ Co	-2.3E-02 ± 3.7E-02	U
	¹³⁴ Cs	-9.8E-03 ± 3.8E-02	U		¹³⁴ Cs	1.0E-03 ± 1.0E-02	U
	¹³⁷ Cs	1.9E-02 ± 3.8E-02	U		¹³⁷ Cs	-2.1E-02 ± 3.3E-02	U
	¹⁵² Eu	-5.0E-02 ± 1.1E-01	U		¹⁵² Eu	-1.9E-02 ± 9.1E-02	U
	¹⁵⁴ Eu	-8.6E-02 ± 1.1E-01	U		¹⁵⁴ Eu	-2.4E-02 ± 1.3E-01	U
	¹⁵⁵ Eu	8.6E-03 ± 8.6E-02	U		¹⁵⁵ Eu	-1.0E-01 ± 1.3E-01	U
	²³⁸ Pu	8.6E-03 ± 1.5E-02	U		²³⁸ Pu	8.8E-03 ± 1.9E-02	U
	^{239/240} Pu	9.5E-04 ± 9.5E-03	U		^{239/240} Pu	-3.9E-03 ± 3.9E-03	U
	¹⁰³ Ru	-1.2E-02 ± 3.7E-02	U		¹⁰³ Ru	1.2E-02 ± 3.1E-02	U
	¹⁰⁶ Ru	2.0E-01 ± 3.2E-01	U		¹⁰⁶ Ru	-2.3E-01 ± 2.8E-01	U
	¹²⁵ Sb	1.7E-02 ± 1.0E-01	U		¹²⁵ Sb	-1.6E-03 ± 1.6E-02	U
	¹¹³ Sn	-2.3E-02 ± 4.7E-02	U		¹¹³ Sn	-4.0E-02 ± 4.0E-02	U
	⁹⁰ Sr	-4.8E-02 ± 9.1E-02	U		⁹⁰ Sr	-3.2E-02 ± 8.5E-02	U
	²³⁴ U	6.0E-03 ± 4.8E-03			²³⁴ U	9.8E-03 ± 7.7E-03	
	²³⁵ U	9.4E-04 ± 3.3E-03	U		²³⁵ U	2.0E-03 ± 4.0E-03	U
	²³⁸ U	2.6E-03 ± 3.1E-03			²³⁸ U	2.7E-03 ± 4.9E-03	
	⁶⁵ Zn	-1.5E-01 ± 1.5E-01	U		⁶⁵ Zn	-2.7E-01 ± 2.7E-01	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-7. 2004 Vegetation Sampling Results (pCi/g ± total analytical uncertainty).
 (18 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
V102 (600 Area)	¹⁴⁴ Ce	2.7E-01 ± 4.1E-01	U	V104 (600 Area)	¹⁴⁴ Ce	3.4E-01 ± 5.3E-01	U
	⁶⁰ Co	2.4E-03 ± 2.4E-02	U		⁶⁰ Co	-5.2E-02 ± 5.7E-02	U
	¹³⁴ Cs	-8.9E-04 ± 8.9E-03	U		¹³⁴ Cs	-1.3E-02 ± 6.6E-02	U
	¹³⁷ Cs	4.7E-02 ± 3.9E-02	U		¹³⁷ Cs	4.4E-02 ± 5.5E-02	U
	¹⁵² Eu	8.2E-02 ± 9.4E-02	U		¹⁵² Eu	-4.2E-03 ± 4.2E-02	U
	¹⁵⁴ Eu	-1.1E-01 ± 1.1E-01	U		¹⁵⁴ Eu	1.3E-01 ± 1.9E-01	U
	¹⁵⁵ Eu	-1.4E-02 ± 9.8E-02	U		¹⁵⁵ Eu	-5.5E-02 ± 1.5E-01	U
	²³⁸ Pu	-5.1E-03 ± 1.9E-02	U		²³⁸ Pu	-3.1E-03 ± 1.5E-02	U
	^{239/240} Pu	1.3E-02 ± 7.9E-03			^{239/240} Pu	4.2E-03 ± 4.2E-03	
	¹⁰³ Ru	1.6E-02 ± 2.7E-02	U		¹⁰³ Ru	9.0E-03 ± 4.4E-02	U
	¹⁰⁶ Ru	-6.0E-02 ± 3.3E-01	U		¹⁰⁶ Ru	-2.9E-01 ± 4.4E-01	U
	¹²⁵ Sb	-3.4E-02 ± 7.6E-02	U		¹²⁵ Sb	-3.9E-02 ± 1.2E-01	U
	¹¹³ Sn	2.2E-03 ± 2.2E-02	U		¹¹³ Sn	-1.1E-02 ± 5.3E-02	U
	⁹⁰ Sr	4.0E-03 ± 4.0E-02	U		⁹⁰ Sr	1.4E+00 ± 2.8E-01	
	²³⁴ U	1.8E-02 ± 9.7E-03			²³⁴ U	1.4E-02 ± 9.2E-03	
	²³⁵ U	1.9E-03 ± 3.8E-03	U		²³⁵ U	4.5E-03 ± 6.3E-03	U
	²³⁸ U	1.0E-02 ± 6.7E-03			²³⁸ U	7.2E-03 ± 5.8E-03	
	⁶⁵ Zn	-4.1E-02 ± 7.2E-02	U		⁶⁵ Zn	-1.6E-01 ± 1.6E-01	U
V106 (600 Area)	¹⁴⁴ Ce	-3.2E-02 ± 3.2E-01	U	V108 (600 Area)	¹⁴⁴ Ce	-2.6E-01 ± 5.7E-01	U
	⁶⁰ Co	2.1E-03 ± 2.1E-02	U		⁶⁰ Co	-2.0E-02 ± 4.2E-02	U
	¹³⁴ Cs	-6.1E-03 ± 3.8E-02	U		¹³⁴ Cs	8.4E-03 ± 4.2E-02	U
	¹³⁷ Cs	4.2E-04 ± 4.2E-03	U		¹³⁷ Cs	9.4E-02 ± 6.4E-02	
	¹⁵² Eu	4.4E-02 ± 1.1E-01	U		¹⁵² Eu	-2.1E-02 ± 1.2E-01	U
	¹⁵⁴ Eu	-6.9E-02 ± 1.1E-01	U		¹⁵⁴ Eu	5.9E-02 ± 1.3E-01	U
	¹⁵⁵ Eu	1.2E-01 ± 1.2E-01	U		¹⁵⁵ Eu	4.4E-02 ± 1.5E-01	U
	²³⁸ Pu	-1.0E-03 ± 1.0E-02	U		²³⁸ Pu	9.4E-04 ± 9.4E-03	U
	^{239/240} Pu	3.1E-03 ± 5.6E-03	U		^{239/240} Pu	1.3E-02 ± 7.7E-03	
	¹⁰³ Ru	2.8E-02 ± 3.3E-02	U		¹⁰³ Ru	-4.2E-03 ± 4.2E-02	U
	¹⁰⁶ Ru	-1.0E-01 ± 3.2E-01	U		¹⁰⁶ Ru	6.1E-02 ± 3.9E-01	U
	¹²⁵ Sb	-3.8E-02 ± 9.0E-02	U		¹²⁵ Sb	2.7E-02 ± 1.2E-01	U
	¹¹³ Sn	-1.6E-02 ± 4.2E-02	U		¹¹³ Sn	-1.8E-02 ± 5.1E-02	U
	⁹⁰ Sr	-9.6E-02 ± 1.2E-01	U		⁹⁰ Sr	-4.6E-02 ± 8.7E-02	U
	²³⁴ U	1.1E-02 ± 8.2E-03			²³⁴ U	1.6E-02 ± 8.6E-03	
	²³⁵ U	4.0E-03 ± 4.0E-03			²³⁵ U	3.8E-03 ± 3.8E-03	
	²³⁸ U	8.2E-03 ± 5.8E-03			²³⁸ U	7.9E-03 ± 5.6E-03	
	⁶⁵ Zn	-1.0E-01 ± 1.0E-01	U		⁶⁵ Zn	-9.7E-03 ± 9.7E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-7. 2004 Vegetation Sampling Results (pCi/g ± total analytical uncertainty).
 (18 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
V110 (600 Area)	¹⁴⁴ Ce	-4.1E-02 ± 4.1E-01	U	V112 (Duplicate of V032, 200 West)	¹⁴⁴ Ce	1.5E-01 ± 5.8E-01	U
	⁶⁰ Co	5.3E-02 ± 5.4E-02			⁶⁰ Co	1.7E-02 ± 4.3E-02	U
	¹³⁴ Cs	-4.5E-02 ± 4.5E-02	U		¹³⁴ Cs	-1.8E-02 ± 4.1E-02	U
	¹³⁷ Cs	-2.2E-02 ± 3.0E-02	U		¹³⁷ Cs	1.3E-02 ± 4.4E-02	U
	¹⁵² Eu	-5.5E-02 ± 1.0E-01	U		¹⁵² Eu	-1.3E-03 ± 1.3E-02	U
	¹⁵⁴ Eu	-2.4E-02 ± 9.7E-02	U		¹⁵⁴ Eu	-5.6E-02 ± 1.2E-01	U
	¹⁵⁵ Eu	-4.6E-02 ± 1.2E-01	U		¹⁵⁵ Eu	-1.6E-01 ± 1.6E-01	U
	²³⁸ Pu	9.6E-03 ± 1.9E-02	U		²³⁸ Pu	1.2E-02 ± 1.6E-02	U
	^{239/240} Pu	-4.3E-03 ± 4.3E-03	U		^{239/240} Pu	7.4E-03 ± 7.2E-03	U
	¹⁰³ Ru	7.3E-03 ± 2.8E-02	U		¹⁰³ Ru	2.4E-02 ± 4.1E-02	U
	¹⁰⁶ Ru	-9.7E-02 ± 2.9E-01	U		¹⁰⁶ Ru	-1.0E-01 ± 3.7E-01	U
	¹²⁵ Sb	-1.7E-02 ± 8.1E-02	U		¹²⁵ Sb	-1.1E-02 ± 1.1E-01	U
	¹¹³ Sn	2.3E-02 ± 3.6E-02	U		¹¹³ Sn	-2.4E-02 ± 5.6E-02	U
	⁹⁰ Sr	-1.7E-03 ± 1.7E-02	U		⁹⁰ Sr	-1.6E-02 ± 1.2E-01	U
	²³⁴ U	7.9E-03 ± 7.1E-03	U		²³⁴ U	1.2E-02 ± 8.3E-03	
	²³⁵ U	2.9E-03 ± 4.4E-03	U		²³⁵ U	9.0E-04 ± 4.0E-03	U
	²³⁸ U	1.8E-03 ± 5.0E-03	U		²³⁸ U	5.0E-03 ± 4.3E-03	
	⁶⁵ Zn	-1.3E-01 ± 1.3E-01	U		⁶⁵ Zn	-3.8E-01 ± 3.8E-01	U
V114 (Duplicate of V096, 600 Area)	¹⁴⁴ Ce	1.2E-01 ± 5.8E-01	U	V116 (300 Area)	¹⁴⁴ Ce	3.0E-02 ± 3.0E-01	U
	⁶⁰ Co	-4.1E-03 ± 4.1E-02	U		⁶⁰ Co	-4.4E-02 ± 4.4E-02	U
	¹³⁴ Cs	1.3E-04 ± 1.3E-03	U		¹³⁴ Cs	7.4E-03 ± 2.8E-02	U
	¹³⁷ Cs	-6.6E-05 ± 6.6E-04	U		¹³⁷ Cs	-2.5E-03 ± 2.5E-02	U
	¹⁵² Eu	-2.7E-03 ± 2.7E-02	U		¹⁵² Eu	-7.6E-02 ± 8.7E-02	U
	¹⁵⁴ Eu	1.2E-01 ± 1.5E-01	U		¹⁵⁴ Eu	-3.4E-02 ± 8.8E-02	U
	¹⁵⁵ Eu	-4.3E-03 ± 4.3E-02	U		¹⁵⁵ Eu	6.7E-02 ± 9.6E-02	U
	²³⁸ Pu	-5.2E-03 ± 1.1E-02	U		²³⁸ Pu	-4.8E-03 ± 1.6E-02	U
	^{239/240} Pu	1.0E-03 ± 3.5E-03	U		^{239/240} Pu	-3.8E-03 ± 3.8E-03	U
	¹⁰³ Ru	2.7E-02 ± 5.1E-02	U		¹⁰³ Ru	-1.5E-02 ± 3.0E-02	U
	¹⁰⁶ Ru	3.4E-01 ± 4.8E-01	U		¹⁰⁶ Ru	2.0E-01 ± 2.5E-01	U
	¹²⁵ Sb	-9.8E-02 ± 1.4E-01	U		¹²⁵ Sb	-2.3E-02 ± 7.8E-02	U
	¹¹³ Sn	-1.5E-02 ± 5.8E-02	U		¹¹³ Sn	6.2E-03 ± 3.7E-02	U
	⁹⁰ Sr	-1.7E-01 ± 1.7E-01	U		⁹⁰ Sr	-1.1E-01 ± 1.1E-01	U
	²³⁴ U	4.4E-03 ± 4.1E-03			²³⁴ U	1.2E-02 ± 7.9E-03	
	²³⁵ U	2.9E-03 ± 3.5E-03			²³⁵ U	9.6E-04 ± 4.3E-03	U
	²³⁸ U	2.6E-03 ± 3.9E-03	U		²³⁸ U	7.0E-03 ± 5.2E-03	
	⁶⁵ Zn	-1.2E-01 ± 1.3E-01	U		⁶⁵ Zn	6.1E-02 ± 7.5E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-7. 2004 Vegetation Sampling Results (pCi/g ± total analytical uncertainty).
 (18 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
V117 (300 Area)	¹⁴⁴ Ce	2.6E-01 ± 3.5E-01	U	V119 (300 Area)	¹⁴⁴ Ce	3.2E-02 ± 3.2E-01	U
	⁶⁰ Co	-1.6E-03 ± 1.6E-02	U		⁶⁰ Co	6.7E-03 ± 2.7E-02	U
	¹³⁴ Cs	2.1E-02 ± 2.7E-02	U		¹³⁴ Cs	1.0E-03 ± 1.0E-02	U
	¹³⁷ Cs	-6.5E-04 ± 6.5E-03	U		¹³⁷ Cs	-2.8E-02 ± 2.9E-02	U
	¹⁵² Eu	3.7E-02 ± 8.1E-02	U		¹⁵² Eu	-1.9E-02 ± 8.4E-02	U
	¹⁵⁴ Eu	3.7E-03 ± 3.7E-02	U		¹⁵⁴ Eu	-1.1E-01 ± 1.1E-01	U
	¹⁵⁵ Eu	-2.7E-02 ± 8.4E-02	U		¹⁵⁵ Eu	-2.1E-02 ± 9.3E-02	U
	²³⁸ Pu	-6.8E-03 ± 1.6E-02	U		²³⁸ Pu	-1.0E-02 ± 1.4E-02	U
	^{239/240} Pu	9.7E-06 ± 9.7E-06	U		^{239/240} Pu	3.7E-03 ± 5.9E-03	U
	¹⁰³ Ru	-1.3E-03 ± 1.3E-02	U		¹⁰³ Ru	8.8E-03 ± 3.1E-02	U
	¹⁰⁶ Ru	7.8E-02 ± 2.3E-01	U		¹⁰⁶ Ru	7.6E-03 ± 7.6E-02	U
	¹²⁵ Sb	-6.5E-03 ± 6.5E-02	U		¹²⁵ Sb	5.9E-04 ± 5.9E-03	U
	¹¹³ Sn	-1.3E-02 ± 3.3E-02	U		¹¹³ Sn	-1.1E-02 ± 3.9E-02	U
	⁹⁰ Sr	-8.3E-02 ± 9.5E-02	U		⁹⁰ Sr	-8.6E-02 ± 1.1E-01	U
	²³⁴ U	2.8E-02 ± 1.2E-02			²³⁴ U	1.8E-01 ± 5.4E-02	
	²³⁵ U	4.0E-03 ± 4.0E-03			²³⁵ U	1.3E-02 ± 8.2E-03	
	²³⁸ U	2.2E-02 ± 1.1E-02			²³⁸ U	1.5E-01 ± 4.5E-02	
	⁶⁵ Zn	4.2E-02 ± 6.6E-02	U		⁶⁵ Zn	-1.2E-02 ± 7.8E-02	U
V121 (300 Area)	¹⁴⁴ Ce	-1.4E-02 ± 1.4E-01	U	V123 (300 Area)	¹⁴⁴ Ce	1.0E-01 ± 4.7E-01	U
	⁶⁰ Co	-2.2E-02 ± 3.1E-02	U		⁶⁰ Co	-1.0E-02 ± 3.4E-02	U
	¹³⁴ Cs	7.7E-03 ± 3.1E-02	U		¹³⁴ Cs	4.4E-03 ± 3.6E-02	U
	¹³⁷ Cs	4.8E-03 ± 3.6E-02	U		¹³⁷ Cs	-3.9E-03 ± 3.6E-02	U
	¹⁵² Eu	-5.6E-02 ± 9.9E-02	U		¹⁵² Eu	4.6E-02 ± 1.0E-01	U
	¹⁵⁴ Eu	-6.9E-02 ± 9.3E-02	U		¹⁵⁴ Eu	5.7E-02 ± 1.1E-01	U
	¹⁵⁵ Eu	5.2E-02 ± 1.1E-01	U		¹⁵⁵ Eu	3.8E-02 ± 1.2E-01	U
	²³⁸ Pu	-1.3E-02 ± 1.7E-02	U		²³⁸ Pu	-9.8E-04 ± 9.8E-03	U
	^{239/240} Pu	1.1E-03 ± 3.8E-03	U		^{239/240} Pu	3.9E-03 ± 3.9E-03	
	¹⁰³ Ru	-4.9E-05 ± 4.9E-04	U		¹⁰³ Ru	2.8E-02 ± 3.7E-02	U
	¹⁰⁶ Ru	2.7E-01 ± 2.8E-01	U		¹⁰⁶ Ru	3.4E-01 ± 3.2E-01	U
	¹²⁵ Sb	-4.1E-04 ± 4.1E-03	U		¹²⁵ Sb	3.3E-02 ± 9.3E-02	U
	¹¹³ Sn	-9.6E-03 ± 4.4E-02	U		¹¹³ Sn	-3.4E-02 ± 4.9E-02	U
	⁹⁰ Sr	-9.4E-02 ± 1.2E-01	U		⁹⁰ Sr	-1.8E-01 ± 1.8E-01	U
	²³⁴ U	6.3E-02 ± 2.3E-02			²³⁴ U	6.5E-03 ± 6.4E-03	
	²³⁵ U	9.5E-03 ± 7.4E-03			²³⁵ U	4.0E-03 ± 5.6E-03	
	²³⁸ U	5.2E-02 ± 1.9E-02			²³⁸ U	5.6E-03 ± 4.8E-03	
	⁶⁵ Zn	6.5E-03 ± 6.5E-02	U		⁶⁵ Zn	-2.5E-03 ± 2.5E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-7. 2004 Vegetation Sampling Results (pCi/g ± total analytical uncertainty).
 (18 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
V124 (300 Area)	¹⁴⁴ Ce	-9.1E-02 ± 3.4E-01	U	V125 (300 Area)	¹⁴⁴ Ce	-1.5E-01 ± 4.8E-01	U
	⁶⁰ Co	-3.0E-04 ± 3.0E-03	U		⁶⁰ Co	2.2E-03 ± 2.2E-02	U
	¹³⁴ Cs	-2.9E-02 ± 2.9E-02	U		¹³⁴ Cs	1.2E-02 ± 3.6E-02	U
	¹³⁷ Cs	-2.6E-02 ± 2.7E-02	U		¹³⁷ Cs	-1.3E-02 ± 3.8E-02	U
	¹⁵² Eu	-2.7E-02 ± 7.4E-02	U		¹⁵² Eu	-1.1E-02 ± 1.1E-01	U
	¹⁵⁴ Eu	-2.0E-02 ± 7.6E-02	U		¹⁵⁴ Eu	7.9E-02 ± 1.1E-01	U
	¹⁵⁵ Eu	2.6E-02 ± 8.2E-02	U		¹⁵⁵ Eu	-2.3E-02 ± 1.2E-01	U
	²³⁸ Pu	3.1E-03 ± 1.1E-02	U		²³⁸ Pu	8.3E-03 ± 1.5E-02	U
	^{239/240} Pu	-2.1E-03 ± 2.9E-03	U		^{239/240} Pu	-3.1E-03 ± 5.6E-03	U
	¹⁰³ Ru	4.6E-03 ± 2.4E-02	U		¹⁰³ Ru	-2.6E-02 ± 3.9E-02	U
	¹⁰⁶ Ru	-9.3E-02 ± 2.2E-01	U		¹⁰⁶ Ru	-2.0E-01 ± 3.1E-01	U
	¹²⁵ Sb	-6.0E-02 ± 7.2E-02	U		¹²⁵ Sb	4.5E-02 ± 9.7E-02	U
	¹¹³ Sn	-2.6E-02 ± 3.5E-02	U		¹¹³ Sn	-1.7E-02 ± 5.1E-02	U
	⁹⁰ Sr	-1.5E-01 ± 1.5E-01	U		⁹⁰ Sr	-1.0E-01 ± 1.0E-01	U
	²³⁴ U	2.0E-02 ± 1.0E-02			²³⁴ U	1.8E-02 ± 1.1E-02	
	²³⁵ U	3.4E-03 ± 6.1E-03	U		²³⁵ U	5.0E-03 ± 5.5E-03	U
	²³⁸ U	1.0E-02 ± 8.4E-03	U		²³⁸ U	2.6E-02 ± 1.2E-02	
	⁶⁵ Zn	-6.3E-02 ± 7.7E-02	U		⁶⁵ Zn	-3.5E-02 ± 1.0E-01	U
V126 (300 Area)	¹⁴⁴ Ce	-4.1E-01 ± 4.4E-01	U	V127 (300 Area)	¹⁴⁴ Ce	-1.4E+00 ± 1.4E+00	U
	⁶⁰ Co	-1.3E-03 ± 1.3E-02	U		⁶⁰ Co	-3.0E-02 ± 5.1E-02	U
	¹³⁴ Cs	-5.0E-03 ± 4.1E-02	U		¹³⁴ Cs	-2.4E-02 ± 5.4E-02	U
	¹³⁷ Cs	1.7E-02 ± 3.9E-02	U		¹³⁷ Cs	1.3E-02 ± 5.2E-02	U
	¹⁵² Eu	-1.7E-02 ± 9.7E-02	U		¹⁵² Eu	-2.3E-02 ± 1.5E-01	U
	¹⁵⁴ Eu	-2.1E-02 ± 1.2E-01	U		¹⁵⁴ Eu	4.7E-04 ± 4.7E-03	U
	¹⁵⁵ Eu	-8.2E-02 ± 1.4E-01	U		¹⁵⁵ Eu	-9.2E-02 ± 2.0E-01	U
	²³⁸ Pu	-3.2E-03 ± 1.4E-02	U		²³⁸ Pu	6.2E-03 ± 1.2E-02	U
	^{239/240} Pu	4.2E-03 ± 4.2E-03			^{239/240} Pu	5.1E-03 ± 5.6E-03	U
	¹⁰³ Ru	-1.6E-02 ± 3.7E-02	U		¹⁰³ Ru	4.2E-03 ± 4.2E-02	U
	¹⁰⁶ Ru	-1.6E-02 ± 1.6E-01	U		¹⁰⁶ Ru	1.7E-01 ± 4.6E-01	U
	¹²⁵ Sb	-5.8E-02 ± 9.4E-02	U		¹²⁵ Sb	2.1E-02 ± 1.4E-01	U
	¹¹³ Sn	-3.9E-02 ± 4.3E-02	U		¹¹³ Sn	-4.2E-02 ± 6.5E-02	U
	⁹⁰ Sr	-3.2E-02 ± 9.0E-02	U		⁹⁰ Sr	-1.4E-01 ± 1.4E-01	U
	²³⁴ U	2.5E-02 ± 1.2E-02			²³⁴ U	3.6E-03 ± 4.3E-03	
	²³⁵ U	6.1E-03 ± 5.2E-03			²³⁵ U	2.6E-03 ± 5.2E-03	U
	²³⁸ U	1.6E-02 ± 9.1E-03			²³⁸ U	5.9E-03 ± 5.5E-03	
	⁶⁵ Zn	-3.1E-02 ± 8.8E-02	U		⁶⁵ Zn	4.8E-02 ± 1.2E-01	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-7. 2004 Vegetation Sampling Results (pCi/g ± total analytical uncertainty).
 (18 sheets total)

Location	Isotope	Result ± Error	RQ*	Location	Isotope	Result ± Error	RQ*
V128 (300 Area)	¹⁴⁴ Ce	-3.2E-01 ± 6.4E-01	U	V129 (300 Area)	¹⁴⁴ Ce	-2.8E-01 ± 4.6E-01	U
	⁶⁰ Co	-1.9E-02 ± 5.1E-02	U		⁶⁰ Co	7.7E-03 ± 3.6E-02	U
	¹³⁴ Cs	-1.0E-02 ± 5.6E-02	U		¹³⁴ Cs	-2.2E-02 ± 3.5E-02	U
	¹³⁷ Cs	1.9E-02 ± 5.4E-02	U		¹³⁷ Cs	-1.9E-03 ± 1.9E-02	U
	¹⁵² Eu	-1.6E-02 ± 1.5E-01	U		¹⁵² Eu	-9.9E-03 ± 9.9E-02	U
	¹⁵⁴ Eu	-7.5E-02 ± 1.6E-01	U		¹⁵⁴ Eu	-6.6E-02 ± 1.2E-01	U
	¹⁵⁵ Eu	-3.6E-03 ± 3.6E-02	U		¹⁵⁵ Eu	5.4E-02 ± 1.2E-01	U
	²³⁸ Pu	6.2E-03 ± 1.2E-02	U		²³⁸ Pu	2.3E-02 ± 1.7E-02	U
	^{239/240} Pu	1.0E-03 ± 1.0E-03	U		^{239/240} Pu	5.3E-03 ± 5.8E-03	U
	¹⁰³ Ru	-1.4E-02 ± 5.4E-02	U		¹⁰³ Ru	6.6E-03 ± 3.4E-02	U
	¹⁰⁶ Ru	-3.2E-02 ± 3.2E-01	U		¹⁰⁶ Ru	-4.3E-02 ± 3.2E-01	U
	¹²⁵ Sb	7.1E-02 ± 1.5E-01	U		¹²⁵ Sb	-6.1E-02 ± 9.4E-02	U
	¹¹³ Sn	-1.2E-02 ± 6.8E-02	U		¹¹³ Sn	2.5E-02 ± 4.3E-02	U
	⁹⁰ Sr	3.7E-02 ± 9.7E-02	U		⁹⁰ Sr	-1.1E-01 ± 1.1E-01	U
	²³⁴ U	1.2E-02 ± 1.1E-02	U		²³⁴ U	1.0E-02 ± 7.5E-03	
	²³⁵ U	8.5E-03 ± 7.9E-03			²³⁵ U	4.0E-03 ± 4.0E-03	
	²³⁸ U	1.7E-02 ± 1.3E-02			²³⁸ U	6.4E-03 ± 5.7E-03	U
	⁶⁵ Zn	-2.5E-01 ± 2.5E-01	U		⁶⁵ Zn	4.7E-02 ± 8.6E-02	U
V130 (400 Area)	¹⁴⁴ Ce	3.8E-02 ± 3.6E-01	U	V131 (Duplicate of V116, 300 Area)	¹⁴⁴ Ce	-1.6E-01 ± 3.0E-01	U
	⁶⁰ Co	-7.0E-03 ± 2.5E-02	U		⁶⁰ Co	5.7E-03 ± 2.3E-02	U
	¹³⁴ Cs	-3.3E-03 ± 2.7E-02	U		¹³⁴ Cs	1.0E-02 ± 2.3E-02	U
	¹³⁷ Cs	-5.8E-03 ± 2.9E-02	U		¹³⁷ Cs	2.4E-03 ± 2.4E-02	U
	¹⁵² Eu	4.1E-02 ± 7.9E-02	U		¹⁵² Eu	-7.4E-03 ± 6.4E-02	U
	¹⁵⁴ Eu	7.2E-02 ± 9.2E-02	U		¹⁵⁴ Eu	-3.6E-02 ± 7.2E-02	U
	¹⁵⁵ Eu	5.3E-03 ± 5.3E-02	U		¹⁵⁵ Eu	9.3E-03 ± 7.1E-02	U
	²³⁸ Pu	5.1E-03 ± 1.5E-02	U		²³⁸ Pu	2.0E-03 ± 7.6E-03	U
	^{239/240} Pu	-1.0E-03 ± 2.0E-03	U		^{239/240} Pu	1.0E-03 ± 4.5E-03	U
	¹⁰³ Ru	-8.0E-03 ± 2.6E-02	U		¹⁰³ Ru	1.6E-03 ± 1.6E-02	U
	¹⁰⁶ Ru	2.3E-01 ± 2.4E-01	U		¹⁰⁶ Ru	1.3E-01 ± 1.9E-01	U
	¹²⁵ Sb	-2.1E-02 ± 7.1E-02	U		¹²⁵ Sb	4.4E-02 ± 5.9E-02	U
	¹¹³ Sn	2.3E-02 ± 3.6E-02	U		¹¹³ Sn	1.2E-02 ± 3.1E-02	U
	⁹⁰ Sr	-7.8E-02 ± 1.1E-01	U		⁹⁰ Sr	9.0E-02 ± 1.2E-01	U
	²³⁴ U	1.1E-02 ± 6.9E-03			²³⁴ U	5.2E-02 ± 3.0E-02	
	²³⁵ U	9.4E-04 ± 9.4E-03	U		²³⁵ U	3.0E-02 ± 2.3E-02	
	²³⁸ U	7.5E-03 ± 6.2E-03			²³⁸ U	2.4E-02 ± 2.0E-02	
	⁶⁵ Zn	-6.7E-03 ± 6.7E-02	U		⁶⁵ Zn	3.5E-02 ± 6.4E-02	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 3-7. 2004 Vegetation Sampling Results (pCi/g ± total analytical uncertainty).
 (18 sheets total)

Location	Isotope	Result ± Error	RQ*
V132 (Duplicate of V123, 300 Area)	¹⁴⁴ Ce	1.8E-01 ± 5.3E-01	U
	⁶⁰ Co	4.1E-02 ± 4.4E-02	U
	¹³⁴ Cs	5.8E-03 ± 4.7E-02	U
	¹³⁷ Cs	-1.7E-02 ± 4.1E-02	U
	¹⁵² Eu	3.3E-04 ± 3.3E-03	U
	¹⁵⁴ Eu	-1.1E-01 ± 1.5E-01	U
	¹⁵⁵ Eu	-5.4E-02 ± 1.5E-01	U
	²³⁸ Pu	-2.1E-03 ± 8.0E-03	U
	^{239/240} Pu	1.1E-03 ± 1.1E-03	U
	¹⁰³ Ru	-6.9E-03 ± 4.0E-02	U
	¹⁰⁶ Ru	-6.3E-02 ± 3.6E-01	U
	¹²⁵ Sb	6.7E-02 ± 1.0E-01	U
	¹¹³ Sn	1.2E-02 ± 4.8E-02	U
	⁹⁰ Sr	-4.3E-02 ± 9.0E-02	U
	²³⁴ U	1.5E-02 ± 9.1E-03	
	²³⁵ U	4.2E-03 ± 4.2E-03	
	²³⁸ U	4.8E-03 ± 5.3E-03	U
	⁶⁵ Zn	-5.0E-02 ± 1.1E-01	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

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