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FEASIBILITY STUDY REPORT/ENVIRONMENTAL ASSESSMENT FOR OPERABLE UNIT 2 ****FINAL**** MARCH 1995 - VOL 2 OF 2 - APPENDICES A & B

03/01/95

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REPORT

FEASIBILITY STUDY REPORT FOR OPERABLE UNIT 2

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

REMEDIAL INVESTIGATION AND FEASIBILITY STUDY

VOLUME 2 OF 6
APPENDICES A AND B

MARCH 1995

U.S. DEPARTMENT OF ENERGY
FERNALD FIELD OFFICE

FINAL

Appendix A
Sampling Results

APPENDIX A

SAMPLING RESULTS

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LIST OF ACRONYMS

BL	battery limits
CIS	characterization investigation study
COC	contaminant of concern
CRARE	comprehensive remedial action response evaluation
CRDL	contract required detection limit
CRQL	contract required quantitation limit
DL	detection limit
FEMP	Fernald Environmental Monitoring Project
FS	feasibility study
GMA	Great Miami Aquifer
MDA	minimum detectable activities
RCRA	Resource Conservation and Recovery Act
RI/FS	remedial investigation/feasibility study
RI	remedial investigation
SQL	sample quantitation limits
UCL	upper confidence limit

APPENDIX A.1

INTRODUCTION

A.1.0 INTRODUCTION

A.1.1 PURPOSE

The goal of this appendix is to present the data that were most significant to the development and evaluation of the alternatives presented within this Feasibility Study (FS). Data in this appendix consist of Remedial Investigation/Feasibility Study (RI/FS) sampling results for selected contaminants at the Operable Unit 2 subunits. Selected data from the Characterization Investigation Study (CIS) are also included. For the complete Operable Unit 2 data set and the determination of contaminants of concern (COCs), refer to the appendices of the Operable Unit 2 Remedial Investigation (RI) Report and Section 2 of the FS, respectively.

A.1.2 ORGANIZATION

Each Operable Unit 2 subunit has a separate section within Appendix A. Each section presents two statistical summary tables. The first table is for solid materials at the subunit; the second is for perched groundwater. Definition of the statistical parameters shown on the summary tables can be found in Section A.1.3. The summary statistics address only those analytes shown in Tables A.1-1 through A.1-5, which include the COCs as defined by the Operable Unit 2 RI Report, as well as additional analytes that have been included for the reasons stated in the individual tables. For comprehensiveness, sampling results are included for all parameters listed in the tables, regardless of the parameters' applicability to any specific pathway.

It should be noted that the grouping of results within the first statistical summary table in each section separates the solids into media classifications that differ from those presented in the Operable Unit 2 RI Report. The media classifications are defined in Table A.1-6. As a result of these classifications, the summary statistics presented here are not directly comparable to those presented in the RI Report, even though the raw data sets are identical.

Following the statistical summary tables, each subunit section includes lists of samples that present the individual sample locations that were used within each media classification shown in the summary tables. The association with a specific media was based on the position of the individual sample within a soil boring. For each soil boring a media classification was assigned to the associated samples based on the boring log descriptions. Tables A.1-7 through A.1-11 provide the elevation and depth information that defines the media classification for each soil boring, and identify whether the

TABLE A.1-1

SOLID WASTE LANDFILL CONTAMINANTS INCLUDED IN APPENDIX A

Parameter	Reasons Included
Antimony	1
Arsenic	1,4
Benzo(a)anthracene	1
Benzo(a)pyrene	1
Benzo(b)fluoranthene	1
Beryllium	1
Carbazole	1
Dibenzo(a,h)anthracene	1
Indeno(1,2,3-cd)pyrene	1
Neptunium-237	1,4
Plutonium-238	1
Radium-226	1,2
Radium-228	1,2
Strontium-90	1
Technetium-99	1,4
Thorium-228	1
Thorium-230	2,1
Thorium-232	2,1
Uranium-234	1
Uranium-235/236	1
Uranium-238	1,4
Uranium Total	1

1. Contaminant of Concern
2. DOE Order 5400.5
3. Included for informational purposes
4. CRARE Modeling

TABLE A.1-2

LIME SLUDGE PONDS
CONTAMINANTS INCLUDED IN APPENDIX A

Parameter	Reasons Included
Arsenic	4
Cesium-137	1
Neptunium-237	4,1
Radium-226	1,2
Radium-228	2,1
Strontium-90	1
Technetium-99	4,1
Thorium-228	1
Thorium-230	1,2
Thorium-232	2,1
Uranium-234	1
Uranium-235/236	1
Uranium-238	1,4
Uranium Total	3,1

1. Contaminant of Concern
2. DOE Order 5400.5
3. Included for informational purposes
4. CRARE Modeling

TABLE A.1-3

INACTIVE FLYASH PILE CONTAMINANTS INCLUDED IN APPENDIX A

Parameter	Reasons Included
Arsenic	1,4
Dibenzo(a,h)anthracene	1
Neptunium-237	4
Radium-226	1,2
Radium-228	1,2
Technetium-99	4
Thorium-228	1
Thorium-230	2
Thorium-232	2,1
Uranium-234	1
Uranium-235/236	1
Uranium-238	1,4
Uranium Total	1

1. Contaminant of Concern
2. DOE Order 5400.5
3. Uranium-Total is included for informational purposes.
4. CRARE Modeling

TABLE A.1-4

SOUTH FIELD
CONTAMINANTS INCLUDED IN APPENDIX A

Parameter	Reasons Included
Aroclor-1254	1
Aroclor-1260	1
Arsenic	1,4
Benzo(a)anthracene	1
Benzo(a)pyrene	1
Benzo(b)fluoranthene	1
Benzo(k)fluoranthene	1
Beryllium	1
Cesium-137	1
Dibenzo(a,h)anthracene	1
Dieldrin	1
Indeno(1,2,3-cd)pyrene	1
Neptunium-237	1,4
Radium-226	1,2
Radium-228	1,2
Strontium-90	1
Technetium-99	4,1
Thorium-228	1
Thorium-230	1,2
Thorium-232	1,2
Uranium-234	1
Uranium-235/236	1
Uranium-238	1,4
Uranium Total	1

1. Contaminant of Concern
2. DOE Order 5400.5
3. Included for informational purposes
4. CRARE Modeling

TABLE A.1-5

ACTIVE FLYASH PILE CONTAMINANTS INCLUDED IN APPENDIX A

Parameter	Reasons Included
Arsenic	1,4
Beryllium	1
Cesium-137	1
Neptunium-237	1,4
Radium-226	1,2
Radium-228	1,2
Strontium-90	1
Technetium-99	4
Thorium-228	1
Thorium-230	2
Thorium-232	2,1
Uranium-234	1
Uranium-235/236	1
Uranium-238	1,4
Uranium-Total	3,1

1. Contaminant of Concern
2. DOE Order 5400.5
3. Included for informational purposes
4. CRARE Modeling

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TABLE A.1-6

DEFINITION OF MEDIA CLASSIFICATIONS

Media Classification	Description
Surface Soil	Soil samples collected on the surface at a depth of 0 to 0.5 feet. Two surface samples at the Lime Sludge Ponds subunit were taken from the road running along the north side of the subunit. Because these samples were in the road itself, the statistics for the Lime Sludge Ponds surface soil presented in Appendix A are calculated both with and without these road samples.
Fill	Surface soil and subsurface soil samples of material that has been deposited on top of the native soil layer, or has been in some way disturbed.
Ash	Soil samples from either the Inactive Flyash Pile or Active Flyash Pile that have been identified as being flyash material.
Sludge	Samples from the Lime Sludge Ponds that are taken from the actual sludge material.
Berm	Soil samples from the Lime Sludge Ponds that have been taken from the berms that form the perimeter of the Lime Sludge Ponds.
K65 Trench Vicincity	This area encompasses soil samples that have been taken in locations close to both the K65 Trench and the Lime Sludge Ponds. Samples in this vicinity may have been impacted by constituent migration from the K65 Trench.
Cover	Surface soil samples taken from the Inactive Flyash Pile subunit that have been identified as being from the soil cover over the ash material. The Inactive Flyash Pile cover has been identified in only a limited area of the subunit.
Till	Soil samples taken from undisturbed native soils below the interpreted location of the fill/till interface.
Impacted Till	Soil samples taken from directly below fill or ash material, in which there is evidence that contaminant migration has occurred from the source material to the underlying till. The depth of the impacted till layer is defined in section 1.7.1 of the FS.
Other Till	Soil samples classified as till, but which are below or outside the impacted till layer. Other till samples may be further classified as either inside or outside the subunit battery limits.
Source	A combination of surface soil, fill, ash, cover, and impacted till samples, as applicable for each subunit.
Sediment	Surface soil samples taken from surface water drainage areas.
Great Miami Aquifer Soil	Subsurface soil samples taken from the unsaturated Great Miami Aquifer soils.
Perched Groundwater	Groundwater samples taken from the 1000-series groundwater monitoring wells that are screened in the vadose zone. The perched groundwater samples may be further classified as coming from wells that are either inside or outside the subunit battery limits.

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TABLE A.1-7

MEDIA CLASSIFICATION IN SOLID WASTE LANDFILL BORINGS

Boring No.	Approximate Location	Total Depth (ft)	Reference Elev. (ft)	Top Of Till		Bottom of Impacted Till		GMA Soil	
				Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
1721	inside BL	16.5	588.6	581.1	7.5	578.6	10.0	---	---
1722	inside BL	15.5	588.4	577.4	11.0	574.9	13.5	---	---
1718	inside BL	16.5	587.5	577	10.5	574.5	13.0	---	---
1719	inside BL	19.5	590.1	578.1	12.0	575.6	14.5	---	---
1720	inside BL	13.5	589.6	580.6	9.0	578.1	11.5	---	---
1808	inside BL	16.5	587.2	575.2	12.0	572.7	14.5	---	---
1888	inside BL	15	588.5	576.7	11.8	574.2	14.3	---	---
1985	inside BL	17	588.1	577.1	11.0	574.6	13.5	---	---
1986	inside BL	15	588.7	579.7	9.0	577.2	11.5	---	---
1984	inside BL	15	588	579	9.0	576.5	11.5	---	---
1983	inside BL	20	582.7	576.7	6.0	574.2	8.5	---	---
1982	inside BL	10	584.5	579.5	5.0	577.0	7.5	---	---
1991	inside BL	15	589.1	580.1	9.0	577.6	11.5	---	---
1990	inside BL	20	589.3	576.8	12.5	574.3	15.0	---	---
1993	inside BL	19	589.4	581.9	7.5	579.4	10.0	---	---
1992	inside BL	20	590	580	10.0	577.5	12.5	---	---
1988	inside BL	20	588.3	581	7.3	578.5	9.8	---	---
1987	inside BL	15	587.5	577.5	10.0	575.0	12.5	---	---
1989	inside BL	15	586.7	578.2	8.5	575.7	11.0	---	---
1035	inside BL	27	584.8	581.3	3.5	578.8	6.0	---	---
11037	inside BL	20	589.2	579.2	10.0	576.7	12.5	---	---
11036	inside BL	19	588.5	578.5	10.0	576.0	12.5	---	---

See footnotes at end of table.

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TABLE A.1-7
(Continued)

Boring No.	Approximate Location	Total Depth (ft)	Reference Elev. (ft)	Top Of Till		Bottom of Impacted Till		GMA Soil	
				Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
11039	inside BL	14	589.1	581.1	8.0	578.6	10.5	---	---
11041	inside BL	15	589.7	579.7	10.0	577.2	12.5	---	---
11040	inside BL	40	589.4	581.9	7.5	579.4	10.0	---	---
3037	inside BL	138.5	588.5	581.7	6.8	579.2	9.3	546	42.5
1889	inside BL	17.5	588.3	581.3	7.0	578.8	9.5	---	---
11038	inside BL	15	588.2	578.2	10.0	575.7	12.5	---	---
1950	outside BL	20	582.9	580.3	2.6	577.8	5.1	---	---
2951	outside BL	73	582.1	579.9	2.2	577.4	4.7	539.9	42.2
1038	outside BL	28.5	582.4	579.4	3.0	576.9	5.5	---	---
2953	outside BL	75	586.6	582.6	4.0	580.1	6.5	546.1	40.5
1952	outside BL	18.5	588.5	581	7.5	578.5	10.0	---	---
2947(1947)	outside BL	20.5	590.2	585.2	5.0	582.7	7.5	546.3	43.9

BL = battery limits.

--- = total depth of boring is above the Great Miami Aquifer.

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TABLE A.1-8

MEDIA CLASSIFICATION FOR LIME SLUDGE PONDS BORINGS

Boring No.	Approximate Location	Total Depth (ft)	Reference Elev. (ft)	Top Of Till		Bottom of Impacted Till		GMA Soil		Bottom of Berm	
				Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
1716[a]	inside BL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1717[a]	inside BL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1962	inside BL	11	578.7	568.2	10.5	N/A	N/A	---	---	N/A	N/A
1960	inside BL	11.5	577.6	566.1	11.5	N/A	N/A	---	---	N/A	N/A
1961	inside BL	13	577.7	567.7	10.0	N/A	N/A	---	---	N/A	N/A
1963	inside BL	15.5	579.5	567.5	12.0	N/A	N/A	---	---	N/A	N/A
1959	inside BL	9	576.9	568.9	8.0	N/A	N/A	---	---	N/A	N/A
1958	inside BL	6	578.4	574.4	4.0	N/A	N/A	---	---	N/A	N/A
1957	inside BL	5	576.3	574.3	2.0	N/A	N/A	---	---	N/A	N/A
1956	inside BL	9.5	576.3	572.3	4.0	N/A	N/A	---	---	N/A	N/A
1041	inside BL	22.5	581.3	576	5.3	N/A	N/A	---	---	576	5.3
1039	inside BL	27	577.4	575.5	1.9	N/A	N/A	---	---	575.5	1.9
2042	outside BL	68	573.3	573.3	0.0	N/A	N/A	535.3	38	N/A	N/A
1042	outside BL	21	575.4	575.4	0.0	N/A	N/A	---	---	N/A	N/A
1134	outside BL	16.5	579.8	579.8	0.0	N/A	N/A	---	---	N/A	N/A
1210	outside BL	10.5	579.4	579.4	0.0	N/A	N/A	---	---	N/A	N/A
1229	outside BL	12	578.4	578.4	0.0	N/A	N/A	---	---	N/A	N/A
1937	inside BL	20.5	577.3	577.3	0.0	N/A	N/A	---	---	N/A	N/A
1934	outside BL	21	578.3	578.3	0.0	N/A	N/A	---	---	N/A	N/A
1940	inside BL	19.5	576.5	576.5	0.0	N/A	N/A	---	---	N/A	N/A

[a]Hand-augered borings in the sludge material; samples were collected at a depth of 2 feet.
BL = battery limits.
N/A = not applicable.
--- = depth of boring is above the Great Miami Aquifer.

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TABLE A.1-9

MEDIA CLASSIFICATION IN INACTIVE FLYASH PILE BORINGS

Boring No.	Approximate Location	Total Depth (ft)	Reference Elev. (ft)	Top of Cover Elevation (ft)	Top of Ash		Top of Fill		Top Of Till		Bottom of Impacted Till		GMA Soil	
					Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
1711	inside BL	19.5	576.5	N/A	575	1.5	576.5	0	564	12.5	562	14.5	---	---
1710	inside BL	31.5	577.4	577.4	575.9	1.5	554.4	23	549.9	27.5	547.9	29.5	547.9	29.5
1709	inside BL	33	571	571	566.5	4.5	568	3	540.5	30.5	538.5	32.5	---	---
1849	inside BL	33	571.1	571.1	565.1	6	N/A	N/A	542.6	28.5	540.6	30.5	---	---
1850	inside BL	19.5	576.7	576.7	575.7	1	N/A	N/A	561.7	15.0	559.7	17.0	---	---
1996	inside BL	22	565.5	N/A	561	4.5	550.5	15	N/A	N/A	N/A	N/A	549	16.5
							564.8	0.7						
1995	inside BL	32	567.9	N/A	559.9	8	567.9	0	541.9	26.0	539.9	28.0	536.9	31
1997	inside BL	39.5	570.4	570.4	565.4	5	567.4	3	N/A	N/A	N/A	N/A	533.4	37
							541.9	28.5						
1994	inside BL	38	570.3	N/A	570.3	0	545.3	25	539.3	31.0	537.3	33.0	537.3	33
1016	outside BL	22.5	540.2	N/A	N/A	N/A	540.2	0	538.7	1.5	536.7	3.5	537.2	3
1708	inside BL	33	570.9	N/A	566.9	4	570.9	0	539.4	31.5	537.4	33.5	---	---
							542.7	28.2						
1998	inside BL	19	569.5	N/A	569.5	0	565.5	4	560	9.5	558	11.5		
11006	inside BL	28.5	571.4	N/A	571.4	0	559.4	12	N/A	N/A	N/A	N/A	546.9	24.5
11055	inside BL	25	567	N/A	557	10	555.5	11.5	N/A	N/A	N/A	N/A	543.5	23.5
11056	inside BL	24	563.5	N/A	551.5	12	553.5	10	---	---	---	---	541.5	22
							544	19.5						
11051	inside BL	30	573.3	N/A	573.3	0	554.3	19	548.3	25	546.3	27.0	545.3	28
1047	outside BL	20	568.7	568.7	N/A	N/A	N/A	N/A	568.2	0.5	566.2	2.5	551.2	17.5

See footnotes at end of table.

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TABLE A.1-9
(Continued)

Boring No.	Approximate Location	Total Depth (ft)	Reference Elev. (ft)	Top of Cover Elevation (ft)	Top of Ash		Top of Fill		Top Of Till		Bottom of Impacted Till		GMA Soil	
					Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
1791	inside BL	30	571.1	N/A	N/A	N/A	N/A	N/A	544.1	27.0	542.1	29.0	---	---
11052	inside BL	27	572.5	N/A	N/A	N/A	553.5	19	N/A	N/A	N/A	---	549.5	23
2047	outside BL	64	569	568.7	N/A	N/A	N/A	N/A	568.2	0.8	566.2	2.8	551.2	17.8
4016	outside BL	163.2	539.7	N/A	N/A	N/A	N/A	N/A	539.7	0.0	537.7	2.0	537.2	2.5
11057	inside BL	24	563.5	N/A	552.5	11	553.5	10	N/A	N/A	N/A	N/A	548.5	15
							560	3.5						
11054	inside BL	24	566.5	N/A	554.5	12	558.5	8	554.5	12.0	N/A	N/A	550.5	16
					552.5	14								

BL = battery limits.

N/A = not applicable.

--- = depth of boring is above the Great Miami Aquifer.

NOTE: Some media classifications are limited by boring-log records. Soil descriptions from top to bottom of the boring were not provided in all cases.

000024

TABLE A.1-10

MEDIA CLASSIFICATION IN SOUTH FIELD BORINGS

Boring No.	Approximate Location	Total Depth (ft)	Reference Elev. (ft)	Top Of Till		Bottom of Impacted Till		GMA Soil	
				Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
1977	inside BL	18.5	571.8	558.3	13.5	554.3	17.5	---	---
1971	inside BL	11.5	575.4	N/A	N/A	571.4	4.0	---	---
1964	inside BL	31	571.6	561.1	10.5	557.1	14.5	551.1	20.5
1978	inside BL	15.5	570.7	N/A	N/A	566.7	4.0	---	---
1969	inside BL	14	575.5	571.5	4	567.5	8.0	---	---
1965	inside BL	28.5	574.1	570.1	4	566.1	8.0	---	26.5
1966	inside BL	25.5	558	N/A	N/A	554	4.0	---	---
1967	inside BL	31.5	568.2	541.7	26.5	537.7	30.5	---	---
1970	inside BL	11	571	N/A	N/A	N/A	N/A	---	---
1972	inside BL	10.5	578.2	574.2	4.0	570.2	8.0	---	---
1975	inside BL	10.5	578.8	576.8	2.0	572.8	6.0	---	---
1968	inside BL	18	569	557.5	11.5	553.5	15.5	552	17
1433	inside BL	12.5	566.7	558.7	8	554.7	12.0	---	---
1455	inside BL	4	577.9	574.3	3.6	570.3	7.6	---	---
1456	inside BL	4.4	577.9	573.9	4.0	569.9	8.0	---	---
1457	inside BL	4.6	577.3	573.3	4.0	569.3	8.0	---	---
1460	inside BL	4.5	578.8	575	3.8	571	7.8	---	---
1459	inside BL	6.2	581	575.5	5.5	571.5	9.5	---	---
1461	inside BL	5.2	579.2	575	4.2	571	8.2	---	---
1462	inside BL	5.2	579.1	574.8	4.3	570.8	8.3	---	---
1463	inside BL	4.7	579	575	4.0	571	8.0	---	---

See footnotes at end of table.

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March 1, 1995

TABLE A.1-10
(Continued)

Boring No.	Approximate Location	Total Depth (ft)	Reference Elev. (ft)	Top Of Till		Bottom of Impacted Till		GMA Soil	
				Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
1464	inside BL	4.7	575.7	571.2	4.5	567.2	8.5	---	---
1465	inside BL	4.7	575.5	571.7	3.8	567.7	7.8	---	---
1466	inside BL	4.7	575.3	571.5	3.8	567.5	7.8	---	---
1467	inside BL	3.7	576.3	573.5	2.8	569.5	6.8	---	---
1468	inside BL	3.7	575.7	572.9	2.8	568.9	6.8	---	---
1469	inside BL	3.7	575.9	573.1	2.8	569.1	6.8	---	---
1470	inside BL	4.4	568.1	564.6	3.5	560.6	7.5	---	---
1471	inside BL	5.7	570.8	565.5	5.3	561.5	9.3	---	---
1472	inside BL	5.2	571.7	567.2	4.5	563.2	8.5	---	---
1795	inside BL	*	*	*	4	*	8.0	---	---
1794	inside BL	*	573.5	568.5	5	564.5	9.0	---	---
1793	inside BL	15	572.2	564.7	7.5	560.7	11.5	---	---
1792	inside BL	34	566.1	536.6	29.5	532.6	33.5	---	---
11188	inside BL	12	576.2	570.2	6.0	566.2	10.0	---	---
11187	inside BL	11	580.5	575	5.5	571	9.5	---	---
1046	inside BL	28.5	576.5	576.5	0.0	572.5	4.0	551.7	24.8
2385	outside BL	75	577.6	N/A	N/A	N/A	N/A	554.1	23.5
1516	outside BL	20	539.31	N/A	N/A	N/A	N/A	539.31	0
1517	outside BL	20	538.56	N/A	N/A	N/A	N/A	538.56	0
1518	outside BL	20	537.26	N/A	N/A	N/A	N/A	537.26	0
1458	inside BL	4.7	578.6	574.6	4.0	570.6	8.0	---	---
11186	inside BL	12.5	576.6	576.6	0.0	572.6	4.0	---	---

See footnotes at end of table.

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000026

TABLE A.1-10
(Continued)

Boring No.	Approximate Location	Total Depth (ft)	Reference Elev. (ft)	Top Of Till		Bottom of Impacted Till		GMA Soil	
				Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
2046	inside BL	73	575.9	573.9	2	569.9	6.0	551.7	24.2
3046	inside BL	136.5	577	577	2	573	6.0	551.7	25.3
3385	outside BL	136.5	577.4	577.4	0	573.4	4.0	554.1	23.3
1065	outside BL	14	571.4	571.4	0	567.4	4.0	---	---
1941	inside BL	13.5	578.8	575.8	3.0	571.8	7.0	---	---
1942	inside BL	18	576.5	571.5	5	567.5	9.0	---	---
11085	outside BL	16.5	577.6	577.6	0	573.6	4.0	---	---
1954	inside BL	11.5	575.5	570.5	5	566.5	9.0	---	---
11032	outside BL	15	577.6	577.6	0	573.6	4.0	---	---

BL = battery limits.

N/A = not applicable.

--- = depth of boring is above the Great Miami Aquifer.

* = information not available.

000027

TABLE A.1-11

MEDIA CLASSIFICATION IN ACTIVE FLYASH PILE BORINGS

Boring No.	Approximate Location	Total Depth (ft)	Reference Elev. (ft)	Top Of Till		Bottom of Impacted Till		GMA Soil	
				Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)	Elevation (ft)	Depth (ft)
1979	inside BL	31.5	588.1	562.6	25.5	560.1	28.0	---	---
1980	inside BL	26	591.1	568.6	22.5	566.1	25.0	---	---
1981	inside BL	20.5	587.6	570.6	17.0	568.1	19.5	---	---
1726	inside BL	21	591.2	570.2	21.0	567.7	23.5	---	---
1723	inside BL	30.5	588.8	566.8	22.0	564.3	24.5	---	---
1724	inside BL	43	586.8	550.8	36.0	548.3	38.5	---	---
1820	inside BL	13.5	576.5	567	9.5	564.5	12.0	---	---
1846	inside BL	15	590.2	N/A	N/A	N/A	N/A	---	---
1045	inside BL	18	546.2	543.7	2.5	541.2	5.0	534	12.2
1048	inside BL	19.5	571.8	571.8	0.0	569.3	2.5	554.5	17.3
2045	inside BL	41.5	545.4	543.7	1.7	541.2	4.2	534	11.4
2048	inside BL	68	571.5	571.5	0.0	569	2.5	554.5	17
3045	inside BL	106.5	546.2	543.7	2.5	541.2	5.0	534	12.2
1406	inside BL	17.0	536.4	N/A	N/A	N/A	N/A	536.4	0

BL = battery limits.

N/A = not applicable.

--- = indicates total depth of boring is above the Great Miami Aquifer.

boring falls inside or outside of the subunit battery limits. For example, soil samples from the Solid Waste Landfill have been classified as surface soil, fill/debris, glacial overburden (till), and Great Miami Aquifer soil, based the elevations shown on Table A.1-7. The media classifications have been further grouped into subsets that are relevant to each subunit. Source material is a combination of fill material and impacted till. Impacted till samples are those taken from a layer directly below fill or ash materials, in which there is evidence that contaminant migration has occurred from the source material to the underlying till. The depth of the impacted till layer for each subunit is defined in section 1.7.1 of the FS. Other till samples are those samples classified as till, but outside the impacted till layer. Till samples that are collected from soil borings that fall outside of the subunit battery limits are treated as a separate classification. Great Miami Aquifer soil samples are also separated into those inside and outside the battery limits. Likewise, perched groundwater samples are typically classified as inside or outside the battery limits.

Figures A.1-1 through A.1-3 provide the sample locations for the RI/FS data presented in sections A.2 through A.6. By referring to these figures and the locations described in the sample lists, the reader can locate the point at which any sample was taken. Due to differences in the target analyte lists of the Phase I and Phase II RI/FS sampling programs, and the results of the data validation program, there are some samples for which the entire list of analytes is not available.

A.1.3 EXPLANATION OF DATA TABLES AND FIGURES

Following the lists of samples, detailed analytical results are presented for each subunit media classification for the analytes applicable to that subunit. The tables of detailed results include the sample number, parameter name, location, result, units, data validation qualifier, adjusted result, and percentile statistic. The adjusted result is equal to one-half the result if the corresponding data validation qualifier is U or UJ, indicating that the result is a non-detect. This adjustment is consistent with the method used for generation of the summary statistics for each parameter. The percentile statistics should be interpreted as the percentage of sample results that are less than or equal to a given concentration. For tables that present perched groundwater data, an extra field is included to indicate if the sample is filtered or unfiltered. In a few cases, codes of "*U" and "*F" indicate unfiltered and filtered status, respectively. These codes are used when the filtered/unfiltered status was not recorded on field documentation, but the status is known with a high degree of confidence, based on experience and the standard sampling practices that were in effect at the time that the samples were taken.

If a sufficient number of samples were available, a figure was prepared showing the cumulative frequency of that analyte (as a percentage), versus the analyte concentration. If only a few results were available, no figure was generated. For clarity of presentation, the percentile value that appears on the figure is set equal to the percentile number that appears in the preceding table, subtracted from one. The figures should be interpreted as showing the percentage of sample results that are greater than or equal to the constituent concentration. It should be noted that if there are several samples having the maximum concentration value, then the corresponding figure will not have a point on the 0% line. Likewise, if there are several samples having the minimum concentration value, then the corresponding figure will not have a point on the 100% line. In these cases the figure will have a different appearance; however, the interpretation is still valid.

In the compilation of data for this appendix, non-detected sample results (samples results having a U or UJ data validation qualifier) have been included. These results have been adjusted by taking one-half of the reported detection limit. It will occasionally be observed that most of the samples for a parameter are non-detects, and that the adjusted results in these cases are different and vary over a range of values. There are several reasons for this variation in reported detection limits. In the Operable Unit 2 Phase I sampling program, laboratories reported non-detects at values reflecting the applicable Contract Required Detection Limit (CRDL) for that parameter. For these samples, the reported detection limits are consistent for the same parameter. In 1993, the Fernald Environmental Environmental Management Project (FEMP) policy regarding reporting of non-detects was modified. The use of the CRDL for non-detects was replaced with the use of minimum detectable activities (MDAs) for radiological, and sample quantitation limits (SQLs) for organic/inorganic, analysis. The MDA/SQL values represent the best quantitation of method sensitivity for a particular sample. These detection limit values are sample dependent, parameter dependent, method dependent, and instrument dependent. There are a number of factors that cause variations in these detection limits, including:

- Adjustments made to detection limits due to evidence of blank contamination
- Adjustments made due to matrix interferences and dilution of samples needed for accurate analysis
- For solid samples, the detection limits are elevated by the percent solids (dry weight factor).

For these reasons, a group of results for the same parameter will have a significant range of differing values reported as detection limits.

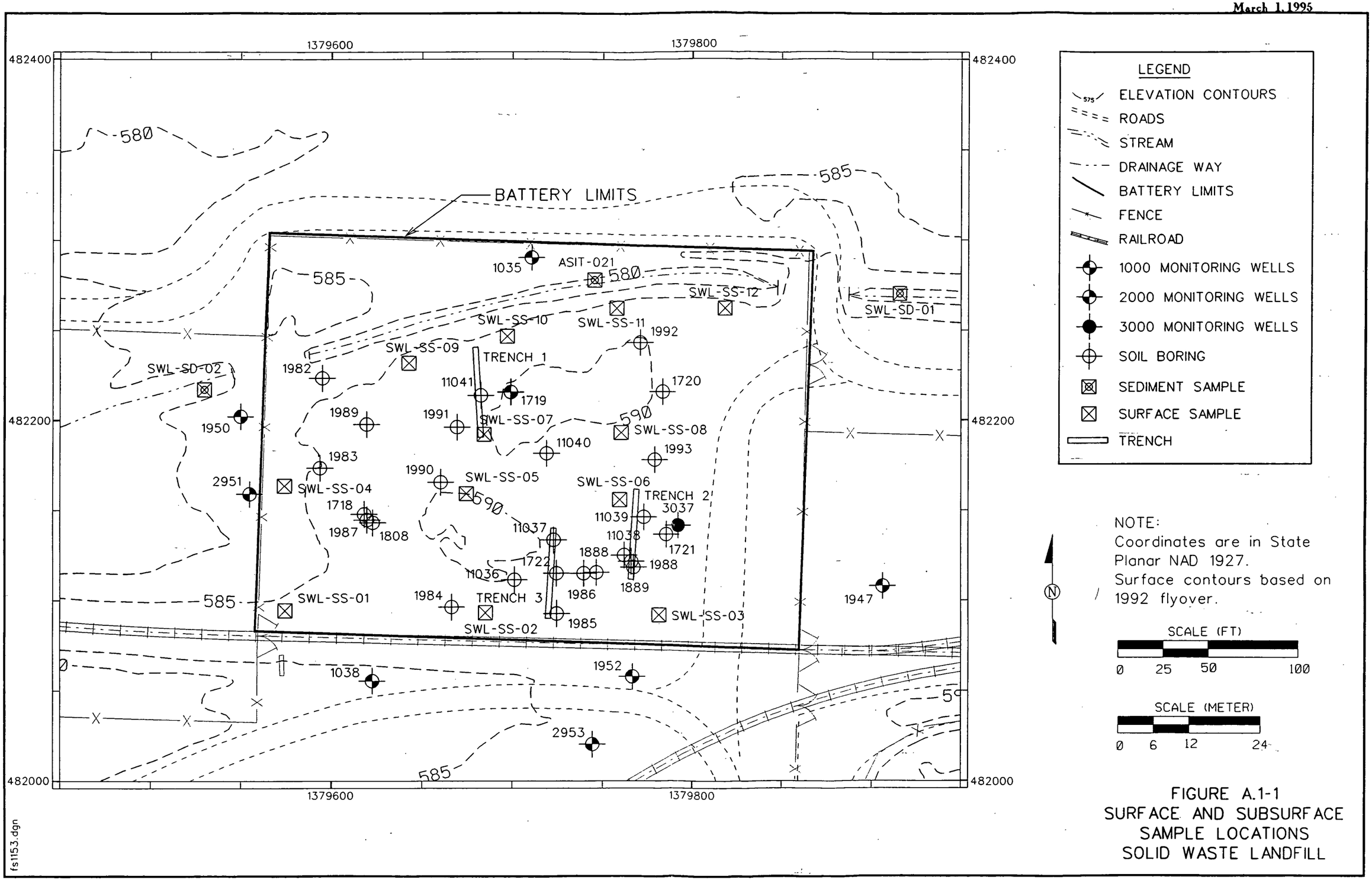

FIGURE A.1-1
SURFACE AND SUBSURFACE SAMPLE LOCATIONS
SOLID WASTE LANDFILL

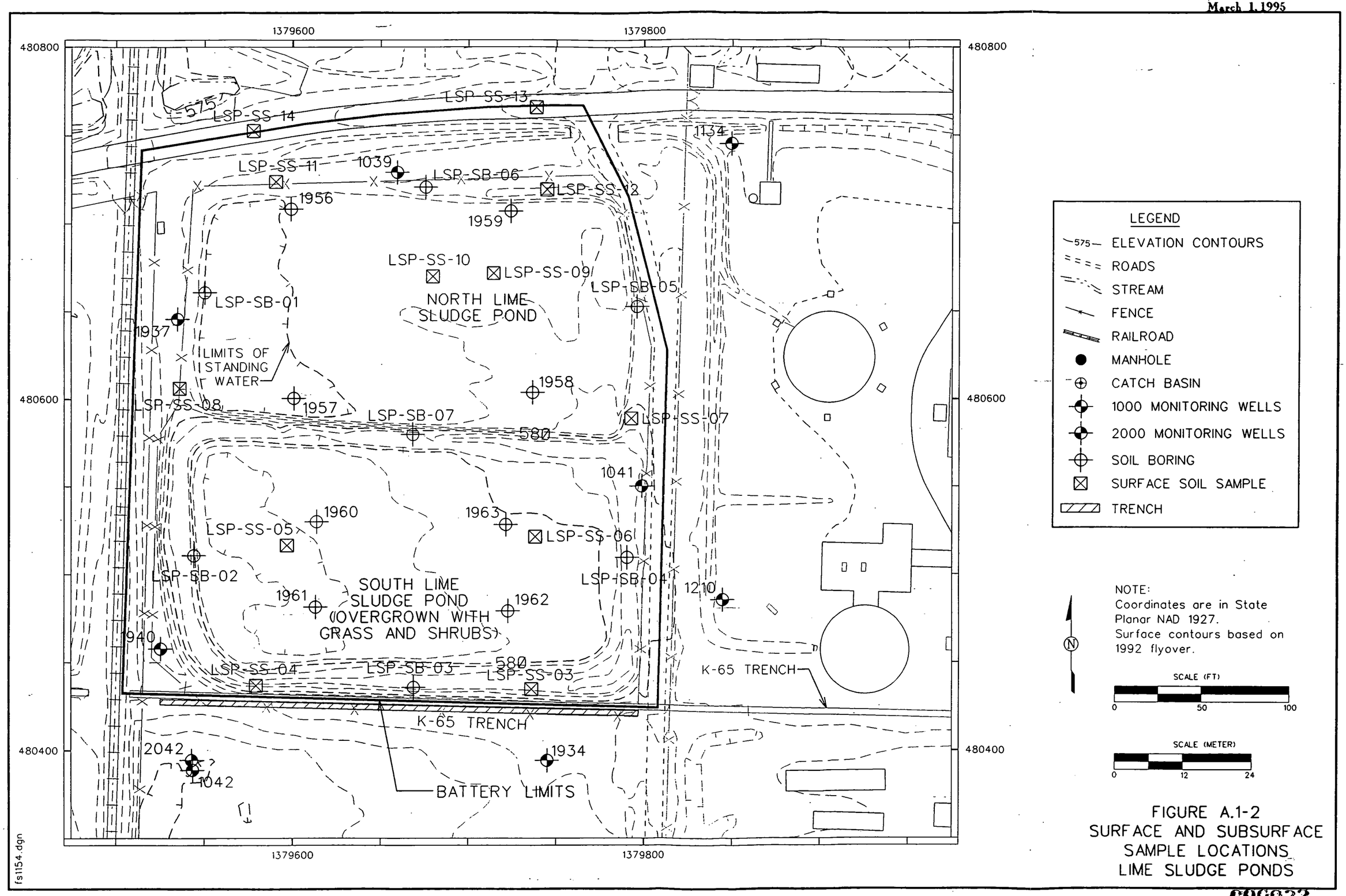

FIGURE A.1-2
SURFACE AND SUBSURFACE
SAMPLE LOCATIONS
LIME SLUDGE PONDS

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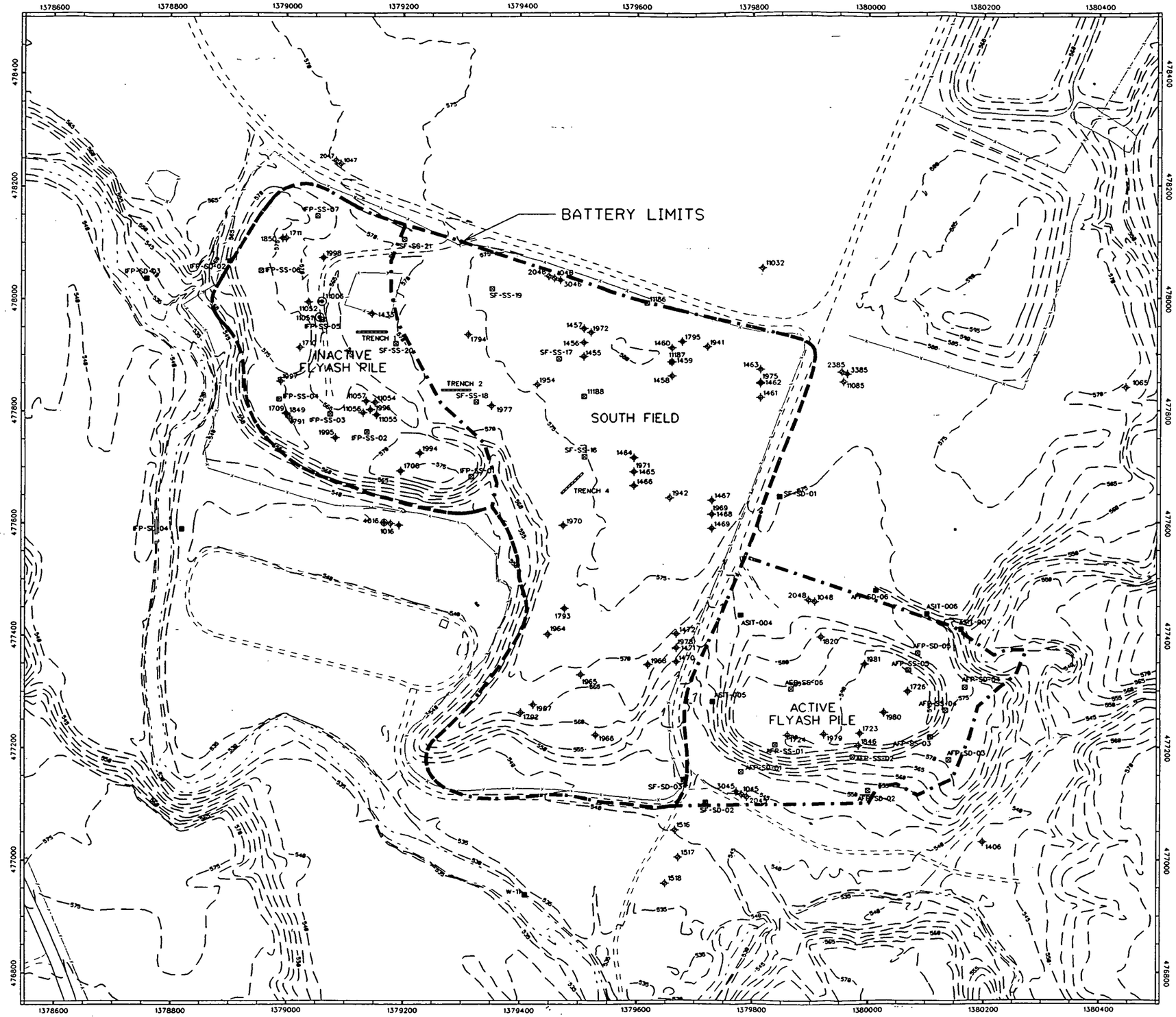

LEGEND

- 575 ELEVATION CONTOURS
- ROADS
- STREAM
- FENCE
- 1000 MONITORING WELLS
- 2000 MONITORING WELLS
- 3000 MONITORING WELLS
- 4000 MONITORING WELLS
- SOIL BORING
- HYDROPUNCH
- SURFACE SAMPLE
- SEDIMENT SAMPLE
- TRENCH

NOTE:
Coordinates are in State planar NAD 1927.
Surface contours based on 1992 flyover

N

SCALE (FT)
0 80 160

SCALE (METER)
0 19.2 38.4

FIGURE A.1-3
SURFACE AND SUBSURFACE SOIL SAMPLE LOCATIONS
SOUTH FIELD / FLYASH PILES AREA

fs1155.dgn

Section A.7 of this appendix presents off-site laboratory results from the CIS. Those data are collected in one section where they are organized by subunit. Figures A.7-1 through A.7-3 show the CIS sample locations.

A.1.4 EXPLANATION OF STATISTICS

The summary statistics presented with each of the subunits include a number of different statistical parameters. Those parameters are explained below in the order that they are presented in the summary statistics tables.

- **Distribution.** The entry in this column indicates whether the probability distribution that best describes the data set is the Normal (N) distribution, Log Normal (L) distribution, or cannot be adequately determined (Undetermined, U). The determination of type of distribution must precede the calculation of other statistics. Two methods are used to determine the distribution type.

  The first method employed to determine the appropriate distribution was the Kolmogorov-Smirnov test with Lilliefors adjustment (Lilliefors 1967). This procedure is one of the methods recommended in EPA's Statistical Analysis of Ground Water Monitoring Data at RCRA Facilities. The test was performed on the untransformed data to test the normality assumption and on the log-transformed data to test the assumption of lognormality. If the test failed to provide sufficient evidence of either normality or lognormality, then the second method was employed.

  The second method consisted of the construction of a probability plot of the data set. If the plotted points fit a straight line reasonably well, a normal distribution will be assumed. If the data do not follow a straight line on the probability plot, the data was log-transformed and a new plot was generated. If the log-transformed data reasonably fit a straight line, then a lognormal distribution was assumed. If a straight line did not fit the plotted points on either the normal probability plot or the log-transformed probability plot, then it was assumed that the data set was neither normally distributed nor lognormally distributed. Visual inspection of the probability plot is often sufficient to determine whether the plotted points follow a normal or lognormal distribution, though some experienced professional judgment may be necessary when there are minor deviations. The statistical methods employed to determine the concentration terms are robust to minor deviations from normality or lognormality, and visual inspection of probability plots is often a sufficient tool.

- **Samples**. This value is the number of samples that were analyzed for the specified parameter and yielded results that were acceptable (i.e., not rejected during data validation procedures).

- **Hits**. This value is the number of sample results that are above the detection limit for the analysis.

- **Min Hit** and **Max Hit**. These two values are the lowest and highest values, respectively, that were actually observed above the detection limit for the analysis.

- **Min SQL** and **Max SQL**. These columns are the minimum and maximum SQLs, respectively. Analytical results are presented as "non-detects" whenever chemical concentrations in samples do not exceed the detection or quantitation levels for the analytical procedures for those samples. There are numerous terms used to describe the detection or quantitation levels (EPA 1989). SQLs are the most relevant quantitation limits for evaluating non-detected chemicals. SQLs take into account sample characteristics, sample preparation, and analytical adjustments. Generally, the detection limit (DL) (the lowest amount of a chemical that can be "seen" above the normal, random noise of an analytical instrument or method) is multiplied by a factor of three to five to obtain the SQL (EPA 1989).

  For radionuclides, the MDA corresponds most directly to the SQL for chemicals. The MDA is the estimate of the activity level that can be practically achieved under a specified set of typical measurement parameters. These parameters include the sample size, counting time, counting efficiency, self-absorption and decay corrections, chemical yield, and other factors involved in determining activity concentrations (EPA 1980). For the purposes of evaluating data in the RI/FS, the term "SQL" is used for both chemicals and radionuclides.

  Non-detected results (if present in the data set) must be considered with positively detected background results for determining the descriptive statistics. Although EPA's Risk Assessment Guidance for Superfund, Part A, Human Health Evaluation Manual allows for best professional judgment in determining the most appropriate assignment of values for non-detected results (EPA 1989), EPA Region V has requested that a value of one-half the SQL be assigned for each non-detected result. Statistical treatment of background data for risk assessments will therefore conform with the methodology requested by EPA Region V.

  A value of the SQL will be sought for each non-detected result. If SQLs cannot be obtained for chemical analytical results, the Contract Required Quantitation Limit (CRQL) will be used as the value of the SQL. The uncertainty introduced by this assumption will be evaluated, since the CRQL may overestimate or underestimate the actual SQL (EPA 1989).

- **Mean**. The mean is calculated for normal and undetermined distributions. It is the arithmetic average of all the results for the specified parameter. Values below detection are treated in this calculation as if they were actual hits at one half of the detection limit concentration.

- **UCL(N)**. The value is the upper confidence limit (UCL) of the mean for a normal distribution. The following formula was used to estimate the UCL of the mean for normal distributions:

$$UCL_{(.95)} = \bar{x} + t_{(.95,n-1)} \times \frac{s}{\sqrt{n}}$$

where

n = number of samples
$\bar{x}$ = sample mean concentration
$t_{(.95,n-1)}$ = percentage point from the t distribution
s = sample standard deviation

$$= \sqrt{\frac{1}{n-1}\sum_{i=1}^{n}(x_i-\bar{x})^2}$$

- **95th%(N)**. This value is the 95th percentile concentration for a normally distributed data set. If the background data distribution is assumed to be normal, the equation used to calculate the 95th percentile is:

$$\text{95th Percentile} = \bar{x} + Z_{(.95)} \times S$$

where

n = number of samples
$\bar{x}$ = sample mean concentration
$Z_{(.95)}$ = percentage point from the Normal distribution
s = sample standard deviation

$$= \sqrt{\frac{1}{n-1}\sum_{i=1}^{n}(x_i-\bar{x})^2}$$

- **Est. Mean**. This value is the estimated mean for a log normal distribution. When the distribution is determined to be lognormal, the mean is estimated (Est. Mean) using the following formula:

$$\text{Est. Mean} = e^{\bar{y} + \frac{s_y^2}{2}}$$

where

n = number of samples
$\bar{y}$ = sample mean of the log-transformed data
S_y = sample standard deviation of the log-transformed data

$$= \sqrt{\frac{1}{n-1}\sum_{i=1}^{n}(y_i-\bar{y})^2}$$

- **UCL(L)**. This value is the UCL of the mean for a log normal distribution. The following formula was used to estimate the UCL of the mean for log normal distributions:

where

$$UCL_{(.95)} = e^{\bar{y} + \frac{S_y^2}{2} + \frac{S_y \times H_{.95}}{\sqrt{n-1}}}$$

n = number of samples
$\bar{y}$ = sample mean of the log-transformed data
$H_{(.95)}$ = quantiles obtained from tables provided by Land (1975)
S_y = sample standard deviation of the log-transformed data

$$= \sqrt{\frac{1}{n-1} \sum_{i=1}^{n} (y_i - \bar{y})^2}$$

- **95th%(L)**. This value is the 95th percentile concentration for a lognormally distributed data set. If the background data distribution is assumed to be lognormal, the equation used to calculate the 95th percentile is:

$$95\text{th Percentile} = e^{\bar{y} + Z_{.95} \times S_y}$$

where

n = number of samples
$\bar{y}$ = sample mean of the log-transformed data
$Z_{(.95)}$ = percentage points from the Normal distribution
S_y = sample standard deviation of the log-transformed data

$$= \sqrt{\frac{1}{n-1} \sum_{i=1}^{n} (y_i - \bar{y})^2}$$

- **UCL(M)**. This value is the non-parametric UCL of the median. The data must first be ordered from small to large with nondetects assigned the value of zero and placed as smaller than the detects such that

$$x_1 \leq x_2 \leq \ldots \leq x_i$$

where

$x_{j,\ (j=1 \text{ to } i)}$ = sample concentrations
i = the number of samples

The UCL(M) is determined to be the minimum data point concentration with a rank that exceeds the Upper Limit calculated from the following formula:

$$\text{Upper Limit}_{(.95)} = \frac{n + 1 - Z_{(.95)} \bullet \sqrt{n}}{2}$$

where

n = number of samples
$Z_{(.95)}$ = quantiles obtained from the Standard Normal Table

- **95th%(NP)**. This value is the 95th percentile concentration for an undetermined distribution. If the distribution of the background data could not be adequately determined, a non-parametric method was used to estimate the 95th percentile concentration. The initial step in this procedure is to order the data such that

$$x_1 \leq x_2 \leq \ldots \leq x_i$$

where

$x_{j,\ (j=1 \text{ to } i)}$ = sample concentrations
i = the number of samples

The 95th percentile concentration is then determined to be

$$x_k$$

such that

$$k \geq i \times 0.95 \text{ (i = number of samples)}$$

If the calculated rank represents a nondetect, the minimum detected value is used as the concentration term.

- **Conc. Term**. The concentration term is assumed to be the 95 percent UCL of the Mean (UCL). If the distribution for an analyte was determined to be either Normal or Lognormal, the appropriate equation was used to calculate the 95 percent UCL. In cases where the calculated 95 percent UCL exceeded the maximum detected value, the concentration term was assigned to the maximum detected value. If a distribution could not be determined because of either a poor fit to either distribution (Normal or Lognormal) or because of insufficient detected values, a non-parametric approach was adopted. The 95th percentile concentration was determined and used as the concentration term. For cases where there were fewer than eight samples, the maximum detected value was used (the calculated 95th percentile concentration would be the maximum value for sample sizes of less than nine).

APPENDIX A.2

SOLID WASTE LANDFILL

TABLE A.2–1
STATISTICAL SUMMARY FOR SOIL/WASTE
SOLID WASTE LANDFILL

Analyte	Units	Distribution	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N)	95%(N)	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
Solid Waste Landfill – Surface Soil																	
Antimony	mg/kg	Undefined	12	0	–	–	0.84	1.2	0.5071	–	–	–	–	–	0.6	0.6	–
Arsenic	mg/kg	Normal	12	12	4.4	8.3	–	–	6.1	6.8	7.8	–	–	–	–	–	6.8
Benzo(a)anthracene	ug/kg	Undefined	12	6	55	880	390	460	227.42	–	–	–	–	–	140	880	880
Benzo(a)pyrene	ug/kg	Undefined	12	6	59.0	760.0	390.0	460.0	214.3	–	–	–	–	–	140.0	760.0	760.0
Benzo(b)fluoranthene	ug/kg	Undefined	12	5	64.0	710.0	390.0	460.0	217.5	–	–	–	–	–	140.0	710.0	710.0
Beryllium	mg/kg	LogNormal	12	12	0.5	1.0	–	–	–	–	–	0.6	0.7	0.9	–	–	0.7
Carbazole	ug/kg	Undefined	12	1	77.0	77.0	390.0	460.0	196.4	–	–	–	–	–	77.0	77.0	77.0
Dibenzo(a,h)anthracene	ug/kg	Undefined	12	2	56.0	200.0	390.0	460.0	194.3	–	–	–	–	–	56.0	200.0	200.0
Indeno(1,2,3–cd)pyrene	ug/kg	Undefined	12	5	46.0	480.0	390.0	460.0	186.7	–	–	–	–	–	91.0	480.0	480.0
Neptunium–237	pci/g	LogNormal	8	8	0.0	3.1	–	–	–	–	–	0.3	3.4	1.3	–	–	3.4
Plutonium–238	pci/g	LogNormal	12	10	0.0	0.9	0.0	0.0	–	–	–	0.2	0.8	0.6	–	–	0.8
Radium–226	pci/g	Undefined	12	12	0.9	2.3	–	–	1.2	–	–	–	–	–	1.3	2.3	2.3
Radium–228	pci/g	LogNormal	12	12	0.7	3.0	–	–	–	–	–	1.3	1.7	2.4	–	–	1.7
Strontium–90	pci/g	Normal	12	8	0.527	1.44	0.422	0.525	0.7253	0.96	–	–	–	–	–	1.44	0.96
Technetium–99	pci/g	Undefined	12	0	–	–	0.3	0.4	0.2	–	–	–	–	–	0.2	0.2	–
Thorium–228	pci/g	LogNormal	9	9	0.5	2.3	–	–	–	–	–	1.2	1.6	2.2	–	–	1.6
Thorium–230	pci/g	LogNormal	9	9	0.9	9.6	–	–	–	–	–	3.4	6.4	8.4	–	–	6.4
Thorium–232	pci/g	LogNormal	9	9	0.6	2.5	–	–	–	–	–	1.1	1.5	2.0	–	–	1.5
Uranium, Total	mg/kg	LogNormal	12	12	6.9	194.0	–	–	–	–	–	73.4	225.2	252.0	–	–	225.2
Uranium–234	pci/g	LogNormal	12	12	1.4	48.9	–	–	–	–	–	14.4	42.1	48.7	–	–	42.1
Uranium–235/236	pci/g	LogNormal	12	12	0.1	3.3	–	–	–	–	–	0.9	2.8	3.2	–	–	2.8
Uranium–238	pci/g	LogNormal	12	12	2.3	63.8	–	–	–	–	–	23.7	77.1	82.7	–	–	77.1
SWL – Source Material																	
Antimony	mg/kg	Undefined	36	7	4.2	22	0.22	7.1	3.0621	–	–	–	–	–	4.2	16.4	16.4
Arsenic	mg/kg	LogNormal	40	40	3.3	15.4	–	–	–	–	–	6.7	7.4	10.8	–	–	7.4
Benzo(a)anthracene	ug/kg	Undefined	39	28	43	310000	360	460	8900.7	–	–	–	–	–	350	18000	18000
Benzo(a)pyrene	ug/kg	Undefined	39	26	47.0	260000.0	360.0	460.0	7472.8	–	–	–	–	–	320.0	13000.0	13000.0
Benzo(b)fluoranthene	ug/kg	Undefined	39	26	49.0	220000.0	360.0	3900.0	6403.7	–	–	–	–	–	300.0	15000.0	15000.0
Beryllium	mg/kg	LogNormal	40	38	0.2	1.8	0.4	0.4	–	–	–	0.9	1.1	2.0	–	–	1.1
Carbazole	ug/kg	Undefined	31	11	58.0	89000.0	360.0	760.0	3177.3	–	–	–	–	–	58.0	4200.0	4200.0
Dibenzo(a,h)anthracene	ug/kg	Undefined	38	15	40.0	79000.0	360.0	760.0	2324.7	–	–	–	–	–	49.0	3000.0	3000.0
Indeno(1,2,3–cd)pyrene	ug/kg	Undefined	38	23	45.0	150000.0	360.0	460.0	4468.8	–	–	–	–	–	210.0	6500.0	6500.0
Neptunium–237	pci/g	Undefined	35	22	0.0	3.1	0.6	1.0	0.3	–	–	–	–	–	0.1	1.7	1.7
Plutonium–238	pci/g	Undefined	43	26	0.0	0.9	0.0	1.0	0.2	–	–	–	–	–	0.1	0.3	0.3
Radium–226	pci/g	Undefined	43	43	0.7	113.0	–	–	3.8	–	–	–	–	–	1.2	1.9	1.9
Radium–228	pci/g	Undefined	43	43	0.6	6.7	–	–	1.5	–	–	–	–	–	1.3	3.0	3.0
Strontium–90	pci/g	Undefined	41	20	0.195	3.09	0.143	0.525	0.633	–	–	–	–	–	0.8	1.58	1.58
Technetium–99	pci/g	Undefined	42	3	0.8	5.1	0.3	0.9	0.4	–	–	–	–	–	0.8	0.8	0.8
Thorium–228	pci/g	Undefined	38	38	0.5	9.4	–	–	1.7	–	–	–	–	–	1.4	4.0	4.0
Thorium–230	pci/g	Undefined	38	38	0.9	720.0	–	–	22.2	–	–	–	–	–	3.2	15.4	15.4
Thorium–232	pci/g	LogNormal	35	33	0.6	8.2	0.6	1.0	–	–	–	1.3	1.6	3.0	–	–	1.6
Uranium, Total	mg/kg	LogNormal	43	43	3.2	1770.0	–	–	–	–	–	134.8	260.2	513.0	–	–	260.2
Uranium–234	pci/g	LogNormal	44	44	0.9	553.0	–	–	–	–	–	25.7	49.7	98.1	–	–	49.7
Uranium–235/236	pci/g	Undefined	44	37	0.1	28.9	0.6	0.6	2.2	–	–	–	–	–	1.1	8.0	8.0
Uranium–238	pci/g	LogNormal	44	44	1.1	577.0	–	–	–	–	–	46.3	92.3	177.9	–	–	92.3

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TABLE A.2-1 (Continued)
STATISTICAL SUMMARY FOR SOIL/WASTE
SOLID WASTE LANDFILL

Analyte	Units	Distribution	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N)	95%(N)	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
SWL – Fill Material																	
Antimony	mg/kg	Undefined	35	6	4.2	22	0.22	7.1	2.8096	–	–	–	–	–	4.2	16.4	16.4
Arsenic	mg/kg	LogNormal	39	39	3.3	13.9	–	–	–	–	–	6.5	7.1	10.1	–	–	7.1
Benzo(a)anthracene	ug/kg	Undefined	39	28	43	31000	360	460	8900.7	–	–	–	–	–	350	18000	18000
Benzo(a)pyrene	ug/kg	Undefined	39	26	47.0	260000.0	360.0	460.0	7472.8	–	–	–	–	–	320.0	13000.0	13000.0
Benzo(b)fluoranthene	ug/kg	Undefined	39	26	49.0	220000.0	360.0	3900.0	6403.7	–	–	–	–	–	300.0	15000.0	15000.0
Beryllium	mg/kg	LogNormal	39	37	0.2	1.8	0.4	0.4	–	–	–	0.9	1.1	2.0	–	–	1.1
Carbazole	ug/kg	Undefined	31	11	58.0	89000.0	360.0	760.0	3177.3	–	–	–	–	–	58.0	4200.0	4200.0
Dibenzo(a,h)anthracene	ug/kg	Undefined	38	15	40.0	79000.0	360.0	760.0	2324.7	–	–	–	–	–	49.0	3000.0	3000.0
Indeno(1,2,3-cd)pyrene	ug/kg	Undefined	38	23	45.0	150000.0	360.0	460.0	4468.8	–	–	–	–	–	210.0	6500.0	6500.0
Neptunium-237	pci/g	Undefined	31	22	0.0	3.1	0.6	1.0	0.4	–	–	–	–	–	0.1	1.7	1.7
Plutonium-238	pci/g	Undefined	39	26	0.0	0.9	0.0	1.0	0.2	–	–	–	–	–	0.1	0.4	0.4
Radium-226	pci/g	Undefined	39	39	0.8	113.0	–	–	4.0	–	–	–	–	–	1.2	2.3	2.3
Radium-228	pci/g	Undefined	39	39	0.7	6.7	–	–	1.5	–	–	–	–	–	1.3	3.2	3.2
Strontium-90	pci/g	Undefined	37	17	0.195	3.09	0.143	0.525	0.6077	–	–	–	–	–	0.789	1.99	1.99
Technetium-99	pci/g	Undefined	38	3	0.8	5.1	0.3	0.9	0.4	–	–	–	–	–	0.8	0.8	0.8
Thorium-228	pci/g	LogNormal	34	34	0.5	9.4	–	–	–	–	–	1.6	2.0	3.5	–	–	2.0
Thorium-230	pci/g	Undefined	34	34	0.9	720.0	–	–	24.5	–	–	–	–	–	3.4	15.4	15.4
Thorium-232	pci/g	LogNormal	32	31	0.6	8.2	1.0	1.0	–	–	–	1.4	1.7	3.0	–	–	1.7
Uranium, Total	mg/kg	LogNormal	39	39	5.0	1770.0	–	–	–	–	–	140.7	272.3	529.7	–	–	272.3
Uranium-234	pci/g	LogNormal	40	40	1.0	553.0	–	–	–	–	–	27.3	54.2	103.7	–	–	54.2
Uranium-235/236	pci/g	LogNormal	40	36	0.1	28.9	0.6	0.6	–	–	–	1.9	3.8	7.3	–	–	3.8
Uranium-238	pci/g	LogNormal	40	40	1.2	577.0	–	–	–	–	–	48.8	98.4	186.2	–	–	98.4
SWL – Impacted Till (Inside Battery Limits)																	
Antimony	mg/kg	Undefined	1	1	11.9	11.9	–	–	11.9	–	–	–	–	–	11.9	11.9	11.9
Arsenic	mg/kg	Undefined	1	1	15.4	15.4	–	–	15.4	–	–	–	–	–	15.4	15.4	15.4
Beryllium	mg/kg	Undefined	1	1	1.0	1.0	–	–	1.0	–	–	–	–	–	1.0	1.0	1.0
Neptunium-237	pci/g	Undefined	4	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Plutonium-238	pci/g	Undefined	4	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium-226	pci/g	Undefined	4	4	0.7	1.6	–	–	1.0	–	–	–	–	–	1.6	1.6	1.6
Radium-228	pci/g	Undefined	4	4	0.6	1.5	–	–	1.1	–	–	–	–	–	1.5	1.5	1.5
Strontium-90	pci/l	Undefined	4	3	0.9	1.42	0.5	0.5	0.8675	–	–	–	–	–	1.42	1.42	1.42
Technetium-99	pci/g	Undefined	4	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium-228	pci/g	Undefined	4	4	1.0	2.0	–	–	1.3	–	–	–	–	–	2.0	2.0	2.0
Thorium-230	pci/g	Undefined	4	4	1.9	3.8	–	–	2.5	–	–	–	–	–	3.8	3.8	3.8
Thorium-232	pci/g	Undefined	3	2	0.9	1.2	0.6	0.6	0.8	–	–	–	–	–	1.2	1.2	1.2
Uranium, Total	mg/kg	Undefined	4	4	3.2	146.0	–	–	43.1	–	–	–	–	–	146.0	146.0	146.0
Uranium-234	pci/g	Undefined	4	4	0.9	30.6	–	–	9.3	–	–	–	–	–	30.6	30.6	30.6
Uranium-235/236	pci/g	Undefined	4	1	2.5	2.5	0.6	0.6	0.8	–	–	–	–	–	2.5	2.5	2.5
Uranium-238	pci/g	Undefined	4	4	1.1	47.7	–	–	14.3	–	–	–	–	–	47.7	47.7	47.7
SWL – Other Till (Inside Battery Limits) *																	
Antimony	mg/kg	Undefined	24	4	3.8	27.3	0.22	7.7	3.8331	–	–	–	–	–	3.8	22.6	22.6
Arsenic	mg/kg	LogNormal	25	25	2.2	13.8	–	–	–	–	–	6.6	7.7	11.9	–	–	7.7
Benzo(a)anthracene	ug/kg	Undefined	25	3	72	1000	360	440	226.08	–	–	–	–	–	72	290	290
Benzo(a)pyrene	ug/kg	Undefined	25	2	290.0	760.0	360.0	440.0	221.0	–	–	–	–	–	290.0	290.0	290.0
Benzo(b)fluoranthene	ug/kg	Undefined	25	3	150.0	1200.0	360.0	440.0	236.0	–	–	–	–	–	150.0	260.0	260.0

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TABLE A.2-1 (Continued)
STATISTICAL SUMMARY FOR SOIL/WASTE
SOLID WASTE LANDFILL

Analyte	Units	Distribution	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N)	95%(N)	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
Beryllium	mg/kg	LogNormal	25	22	0.2	1.4	0.4	0.5	–	–	–	0.8	1.0	1.8	–	–	1.0
Carbazole	ug/kg	Undefined	18	1	210.0	210.0	360.0	430.0	193.1	–	–	–	–	–	210.0	210.0	210.0
Dibenzo(a,h)anthracene	ug/kg	Undefined	25	2	110.0	180.0	360.0	440.0	190.6	–	–	–	–	–	110.0	110.0	110.0
Indeno(1,2,3-cd)pyrene	ug/kg	Undefined	25	2	210.0	410.0	360.0	440.0	203.8	–	–	–	–	–	210.0	210.0	210.0
Neptunium-237	pci/g	Undefined	17	11	0.0	0.4	0.6	0.6	0.2	–	–	–	–	–	0.1	0.4	0.4
Plutonium-238	pci/g	LogNormal	24	12	0.0	0.1	0.0	0.6	–	–	–	0.1	0.2	0.4	–	–	0.2
Radium-226	pci/g	Normal	24	24	0.4	1.2	–	–	0.9	1.0	1.2	–	–	–	–	–	1.0
Radium-228	pci/g	Normal	24	23	0.6	1.1	0.5	0.5	0.8	0.9	1.1	–	–	–	–	–	0.9
Strontium-90	pci/g	Undefined	22	4	0.67	1.16	0.159	0.9	0.2812	–	–	–	–	–	0.67	0.73	0.73
Technetium-99	pci/g	Undefined	22	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium-228	pci/g	LogNormal	21	21	0.6	3.0	–	–	–	–	–	0.9	1.1	1.6	–	–	1.1
Thorium-230	pci/g	Undefined	21	20	0.7	4.7	0.6	0.6	1.3	–	–	–	–	–	1.2	3.1	3.1
Thorium-232	pci/g	Undefined	21	19	0.5	5.2	0.6	0.6	0.9	–	–	–	–	–	0.8	0.9	0.9
Uranium, Total	mg/kg	LogNormal	22	22	2.5	19.7	–	–	–	–	–	6.0	7.7	12.9	–	–	7.7
Uranium-234	pci/g	LogNormal	24	23	0.7	5.2	0.6	0.6	–	–	–	1.1	1.3	2.2	–	–	1.3
Uranium-235/236	pci/g	Undefined	24	18	0.0	0.8	0.0	0.6	0.1	–	–	–	–	–	0.1	0.1	0.1
Uranium-238	pci/g	Undefined	24	24	0.7	18.1	–	–	1.9	–	–	–	–	–	1.2	3.6	3.6
SWL – Till Outside Battery Limits *																	
Neptunium-237	pci/g	Undefined	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Plutonium-238	pci/g	Undefined	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium-226	pci/g	Undefined	1	1	0.8	0.8	–	–	0.8	–	–	–	–	–	0.8	0.8	0.8
Radium-228	pci/g	Undefined	1	1	1.0	1.0	–	–	1.0	–	–	–	–	–	1.0	1.0	1.0
Strontium-90	pci/g	Undefined	1	0	–	–	0.5	0.5	0.25	–	–	–	–	–	0.25	0.25	–
Thorium-228	pci/g	Undefined	1	1	2.3	2.3	–	–	2.3	–	–	–	–	–	2.3	2.3	2.3
Thorium-230	pci/g	Undefined	1	1	1.2	1.2	–	–	1.2	–	–	–	–	–	1.2	1.2	1.2
Thorium-232	pci/g	Undefined	1	1	1.2	1.2	–	–	1.2	–	–	–	–	–	1.2	1.2	1.2
Uranium-234	pci/g	Undefined	1	1	0.8	0.8	–	–	0.8	–	–	–	–	–	0.8	0.8	0.8
Uranium-238	pci/g	Undefined	1	1	0.9	0.9	–	–	0.9	–	–	–	–	–	0.9	0.9	0.9
SWL – GMA Soil *																	
Neptunium-237	pci/g	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Plutoniun-238	pci/g	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium-226	pci/g	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium-228	pci/g	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Strontium-90	pci/g	Undefined	2	0	–	–	0.5	0.5	0.25	–	–	–	–	–	–	–	–
Thorium-228	pci/g	Undefined	2	1	0.7	0.7	0.6	0.6	0.5	–	–	–	–	–	0.7	0.7	0.7
Thorium-230	pci/g	Undefined	2	1	0.7	0.7	0.6	0.6	0.5	–	–	–	–	–	0.7	0.7	0.7
Thorium-232	pci/g	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Uranium-234	pci/g	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Uranium-235/236	pci/g	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Uranium-238	pci/g	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
SWL – Sediment *																	
Antimony	mg/kg	Undefined	1	0	–	–	1.1	1.1	0.55	–	–	–	–	–	0.55	0.55	–
Arsenic	mg/kg	Undefined	2	2	4.5	5.3	–	–	4.9	–	–	–	–	–	5.3	5.3	5.3
Benzo(a)anthracene	ug/kg	Undefined	1	0	–	–	450	450	225	–	–	–	–	–	225	225	–
Benzo(a)pyrene	ug/kg	Undefined	2	1	550.0	550.0	450.0	450.0	387.5	–	–	–	–	–	550.0	550.0	550.0
Beryllium	ug/kg	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–

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TABLE A.2–1 (Continued)
STATISTICAL SUMMARY FOR SOIL/WASTE
SOLID WASTE LANDFILL

Analyte	Units	Distribution	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N)	95%(N)	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
Carbazole	ug/kg	Undefined	2	1	120.0	120.0	450.0	450.0	172.5	–	–	–	–	–	120.0	120.0	120.0
Dibenzo(a,h)anthracene	ug/kg	Undefined	2	0	–	–	450.0	500.0	–	–	–	–	–	–	–	–	–
Indeno(1,2,3–cd)pyrene	ug/kg	Undefined	2	1	310.0	310.0	450.0	450.0	267.5	–	–	–	–	–	310.0	310.0	310.0
Neptunium–237	pci/g	Undefined	2	1	0.6	0.6	0.0	0.0	0.3	–	–	–	–	–	0.6	0.6	0.6
Radium–226	pci/g	Undefined	3	3	0.8	1.0	–	–	0.9	–	–	–	–	–	1.0	1.0	1.0
Radium–228	pci/g	Undefined	3	3	0.8	1.1	–	–	0.9	–	–	–	–	–	1.1	1.1	1.1
Strontium–90	pci/g	Undefined	1	1	0.99	0.99	–	–	0.99	–	–	–	–	–	0.99	0.99	0.99
Technetium–99	pci/g	Undefined	2	0	–	–	0.4	0.4	0.2	–	–	–	–	–	0.2	0.2	–
Thorium–228	pci/g	Undefined	1	1	0.7	0.7	–	–	0.7	–	–	–	–	–	0.7	0.7	0.7
Thorium–230	pci/g	Undefined	1	1	1.1	1.1	–	–	1.1	–	–	–	–	–	1.1	1.1	1.1
Thorium–232	pci/g	Undefined	1	1	0.6	0.6	–	–	0.6	–	–	–	–	–	0.6	0.6	0.6
Uranium–234	pci/g	Undefined	2	2	3.7	4.2	–	–	3.9	–	–	–	–	–	4.2	4.2	4.2
Uranium–235/236	pci/g	Undefined	2	1	0.3	0.3	0.0	0.0	0.1	–	–	–	–	–	0.3	0.3	0.3
Uranium–238	pci/g	Undefined	2	2	4.6	6.8	–	–	5.7	–	–	–	–	–	6.8	6.8	6.8
Uranium–Total	mg/kg	Undefined	3	3	14.7	24.0	–	–	20.4	–	–	–	–	–	24.0	24.0	24.0

• COCs not listed have no data available for this media classification

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TABLE A.2–2
STATISTICAL SUMMARY FOR PERCHED GROUNDWATER
SOLID WASTE LANDFILL

Analyte	Filtered?	Distribution	Units	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N)	95%(N)	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
SWL – Perched Groundwater, Inside Battery Limits																		
Antimony	Filtered	Undefined	mg/l	1	0	–	–	0.0026	0.0026	0.0013	–	–	–	–	–	0.0013	0.0013	–
Antimony	Unfiltered	Undefined	mg/l	2	0	–	–	0.0028	0.03	0.0105	–	–	–	–	–	0.015	0.015	–
Arsenic	Filtered	Undefined	mg/l	5	1	0.350	0.350	0.001	0.200	0.091	–	–	–	–	–	0.350	0.350	0.350
Arsenic	Unfiltered	Undefined	mg/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzo(a)anthracene	Unfiltered	Undefined	ug/l	1	0	–	–	10	10	5	–	–	–	–	–	5	5	–
Benzo(a)pyrene	Unfiltered	Undefined	ug/l	1	0	–	–	10.000	10.000	–	–	–	–	–	–	–	–	–
Benzo(b)fluoranthene	Unfiltered	Undefined	ug/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Beryllium	Filtered	Undefined	mg/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Beryllium	Unfiltered	Undefined	mg/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Carbazole	Unfiltered	Undefined	ug/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Dibenzo(a,h)anthracene	Unfiltered	Undefined	ug/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	
Indeno(1,2,3–cd)pyrene	Unfiltered	Undefined	ug/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	
Neptunium–237	Unfiltered	Undefined	pci/l	5	2	0.300	1.000	1.000	1.000	0.560	–	–	–	–	–	1.000	1.000	1.000
Plutonium–238	Unfiltered	Undefined	pci/l	5	1	0.670	0.670	1.000	1.000	0.534	–	–	–	–	–	0.670	0.670	0.670
Plutonium–238	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium–226	Unfiltered	Undefined	pci/l	5	1	2.000	2.000	0.160	1.000	0.716	–	–	–	–	–	2.000	2.000	2.000
Radium–226	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium–228	Unfiltered	Undefined	pci/l	5	1	5.000	5.000	1.390	3.000	2.039	–	–	–	–	–	5.000	5.000	5.000
Radium–228	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Strontium–90	Unfiltered	Undefined	pci/l	4	0	–	–	0.84	5	1.98	–	–	–	–	–	2.5	2.5	–
Strontium–90	Filtered	Undefined	pci/l	1	0	–	–	1.1	1.1	0.55	–	–	–	–	–	0.55	0.55	–
Technetium–99	Filtered	Undefined	pci/l	1	0	–	–	9.600	9.600	–	–	–	–	–	–	–	–	–
Technetium–99	Unfiltered	Undefined	pci/l	6	0	–	–	11.100	30.300	–	–	–	–	–	–	–	–	–
Thorium–228	Unfiltered	Undefined	pci/l	6	2	1.940	4.000	0.200	1.000	1.260	–	–	–	–	–	4.000	4.000	4.000
Thorium–228	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium–230	Filtered	Undefined	pci/l	1	1	0.710	0.710			0.710	–	–	–	–	–	0.710	0.710	0.710
Thorium–230	Unfiltered	Undefined	pci/l	6	2	2.030	4.600	0.200	1.000	1.370	–	–	–	–	–	4.600	4.600	4.600
Thorium–232	Unfiltered	Undefined	pci/l	5	1	2.600	2.600	0.190	1.000	0.839	–	–	–	–	–	2.600	2.600	2.600
Thorium–232	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Uranium, Total	Filtered	Undefined	ug/l	1	1	2.550	2.550	–	–	2.550	–	–	–	–	–	2.550	2.550	2.550
Uranium, Total	Unfiltered	Undefined	ug/l	6	6	2.000	17.000	–	–	5.873	–	–	–	–	–	17.000	17.000	17.000
Uranium–234	Filtered	Undefined	pci/l	1	1	1.110	1.110	–	–	1.110	–	–	–	–	–	1.110	1.110	1.110
Uranium–234	Unfiltered	Undefined	pci/l	5	3	1.100	4.600	1.000	1.000	1.580	–	–	–	–	–	4.600	4.600	4.600
Uranium–235/236	Unfiltered	Undefined	pci/l	6	0	–	–	0.060	1.000	–	–	–	–	–	–	–	–	–
Uranium–235/236	Filtered	Undefined	pci/l	1	0	–	–	0.160	0.160	–	–	–	–	–	–	–	–	–
Uranium–238	Filtered	Undefined	pci/l	1	1	0.840	0.840			0.840	–	–	–	–	–	0.840	0.840	0.840
Uranium–238	Unfiltered	Undefined	pci/l	6	5	0.670	3.900	1.000	1.000	1.690	–	–	–	–	–	3.900	3.900	3.900
SWL – Perched Groundwater, Outside Battery Limits																		
Antimony	Unfiltered	Undefined	mg/l	5	0	–	–	0.0031	0.0587	0.0131	–	–	–	–	–	0.0294	0.02935	–
Antimony	Filtered	Undefined	mg/l	1	0	–	–	0.0021	0.0021	0.0011	–	–	–	–	–	0.0011	0.00105	–
Arsenic	Unfiltered	Undefined	mg/l	5	4	0.001	0.004	0.002	0.002	0.002	–	–	–	–	–	0.004	0.004	0.004
Arsenic	Filtered	Undefined	mg/l	5	1	0.002	0.002	0.002	0.200	0.021	–	–	–	–	–	0.002	0.002	0.002
Benzo(a)anthracene	Unfiltered	Undefined	ug/l	3	0	–	–	10	10	5	–	–	–	–	–	5	5	–
Benzo(a)pyrene	Unfiltered	Undefined	ug/l	3	0	–	–	10.000	10.000	–	–	–	–	–	–	–	–	–
Benzo(b)fluoranthene	Unfiltered	Undefined	ug/l	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Beryllium	Unfiltered	Undefined	mg/l	5	1	0.002	0.002	0.001	0.002	0.001	–	–	–	–	–	0.002	0.002	0.002
Beryllium	Filtered	Undefined	mg/l	3	0	–	–	0.001	0.001	–	–	–	–	–	–	–	–	–
Carbazole	Unfiltered	Undefined	ug/l	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Dibenzo(a,h)anthracene	Unfiltered	Undefined	ug/l	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–

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TABLE A.2-2 (Continued)
STATISTICAL SUMMARY FOR PERCHED GROUNDWATER
SOLID WASTE LANDFILL

Analyte	Filtered?	Distribution	Units	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N)	95%(N)	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
Indeno(1,2,3-cd)pyrene	Unfiltered	Undefined	ug/l	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Neptunium-237	Filtered	Undefined	pci/l	1	1	0.480	0.480	–	–	0.480	–	–	–	–	–	0.480	0.480	0.480
Neptunium-237	Unfiltered	Undefined	pci/l	7	1	1.940	1.940	0.200	1.000	0.592	–	–	–	–	–	1.940	1.940	1.940
Plutonium-238	Unfiltered	Undefined	pci/l	9	2	0.144	0.169	0.069	1.000	0.223	–	–	–	–	–	0.144	0.169	0.169
Plutonium-238	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium-226	Filtered	Undefined	pci/l	1	1	0.150	0.150	–	–	0.150	–	–	–	–	–	0.150	0.150	0.150
Radium-226	Unfiltered	Undefined	pci/l	9	3	0.193	5.110	0.168	1.000	0.878	–	–	–	–	–	0.821	5.110	5.110
Radium-228	Unfiltered	Undefined	pci/l	9	1	3.720	3.720	1.340	3.000	1.396	–	–	–	–	–	3.720	3.720	3.720
Radium-228	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Strontium-90	Unfiltered	Undefined	pci/l	9	2	0.9	1.35	0.744	5	1.2777	–	–	–	–	–	0.9	1.35	1.35
Strontium-90	Filtered	Undefined	pci/l	1	0	–	–	1.08	1.08	0.54	–	–	–	–	–	0.54	0.54	–
Technetium-99	Filtered	Undefined	pci/l	1	0	–	–	11.000	11.000	–	–	–	–	–	–	–	–	–
Technetium-99	Unfiltered	Undefined	pci/l	11	0	–	–	8.100	30.000	–	–	–	–	–	–	–	–	–
Thorium-228	Unfiltered	Undefined	pci/l	11	2	0.566	14.000	0.200	1.000	1.610	–	–	–	–	–	0.566	14.000	14.000
Thorium-228	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium-230	Filtered	Undefined	pci/l	1	1	0.290	0.290	–	–	0.290	–	–	–	–	–	0.290	0.290	0.290
Thorium-230	Unfiltered	Undefined	pci/l	11	4	0.260	13.800	0.221	1.000	1.662	–	–	–	–	–	0.335	13.800	13.800
Thorium-232	Unfiltered	Undefined	pci/l	9	2	0.654	11.500	0.094	1.000	1.566	–	–	–	–	–	0.654	11.500	11.500
Thorium-232	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Uranium, Total	Filtered	Undefined	ug/l	1	1	4.950	4.950	–	–	4.950	–	–	–	–	–	4.950	4.950	4.950
Uranium, Total	Unfiltered	Undefined	ug/l	11	11	4.000	55.800	–	–	10.989	–	–	–	–	–	11.000	55.800	55.800
Uranium-234	Unfiltered	LogNormal	pci/l	11	11	1.500	12.000	–	–	–	–	–	3.577	5.699	8.233	–	–	5.699
Uranium-234	Filtered	Undefined	pci/l	1	1	2.300	2.300	–	–	2.300	–	–	–	–	–	2.300	2.300	2.300
Uranium-235/236	Filtered	Undefined	pci/l	1	1	0.050	0.050	–	–	0.050	–	–	–	–	–	0.050	0.050	0.050
Uranium-235/236	Unfiltered	Undefined	pci/l	11	3	0.208	0.432	0.120	1.000	0.357	–	–	–	–	–	0.208	0.432	0.432
Uranium-238	Unfiltered	LogNormal	pci/l	11	11	1.200	15.200	–	–	–	–	–	3.469	7.008	9.620	–	–	7.008
Uranium-238	Filtered	Undefined	pci/l	1	1	1.670	1.670	–	–	1.670	–	–	–	–	–	1.670	1.670	1.670

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TABLE A.2-3

SAMPLE LIST - SURFACE SOIL
SOLID WASTE LANDFILL

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
111293	01-APR-93	SWL-SS-01	0.0	0.5	1379574.57	482094.30	1348105.60	482123.70
111297	01-APR-93	SWL-SS-02	0.0	0.5	1379685.22	482093.01	1348216.25	482122.41
111298	01-APR-93	SWL-SS-03	0.0	0.5	1379781.30	482091.72	1348312.33	482121.12
111300	01-APR-93	SWL-SS-04	0.0	0.5	1379574.14	482163.38	1348105.17	482192.78
111301	01-APR-93	SWL-SS-05	0.0	0.5	1379674.50	482159.09	1348205.53	482188.49
111303	01-APR-93	SWL-SS-06	0.0	0.5	1379759.42	482155.66	1348290.45	482185.06
111304	02-APR-93	SWL-SS-07	0.0	0.5	1379684.37	482192.13	1348215.40	482221.53
111307	02-APR-93	SWL-SS-09	0.0	0.5	1379642.76	482231.60	1348173.79	482261.00
111309	02-APR-93	SWL-SS-10	0.0	0.5	1379697.23	482246.62	1348228.26	482276.02
111310	02-APR-93	SWL-SS-11	0.0	0.5	1379757.71	482262.21	1348288.74	482291.61
111312	02-APR-93	SWL-SS-12	0.0	0.5	1379818.22	482262.09	1348349.25	482291.50
111492	19-APR-93	SWL-SS-08	0.0	0.5	1379760.28	482192.99	1348291.31	482222.39

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TABLE A.2-4

SAMPLE LIST - FILL MATERIAL
SOLID WASTE LANDFILL

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
067230	26-JUL-91	1721	3.0	4.5	1379785.34	482136.40	1348316.31	482165.79
067250	29-JUL-91	1722	1.5	3.0	1379739.45	482114.81	1348270.42	482144.20
067251	29-JUL-91	1722	3.0	4.5	1379739.45	482114.81	1348270.42	482144.20
067266	31-JUL-91	1718	1.5	3.0	1379619.44	482144.49	1348150.41	482173.88
067267	31-JUL-91	1718	3.0	4.5	1379619.44	482144.49	1348150.41	482173.88
067271	31-JUL-91	1718	7.5	9.0	1379619.44	482144.49	1348150.41	482173.88
067275	01-AUG-91	1718	9.0	10.5	1379619.44	482144.49	1348150.41	482173.88
067286	07-AUG-91	1719	1.5	3.0	1379699.18	482215.57	1348230.14	482244.96
067287	07-AUG-91	1719	3.0	4.5	1379699.18	482215.57	1348230.14	482244.96
067292	07-AUG-91	1719	10.5	12.0	1379699.18	482215.57	1348230.14	482244.96
067306	10-AUG-91	1720	1.5	3.0	1379783.27	482215.72	1348314.23	482245.11
067307	10-AUG-91	1720	3.0	4.5	1379783.27	482215.72	1348314.23	482245.11
067310	10-AUG-91	1720	7.5	9.0	1379783.27	482215.72	1348314.23	482245.11
067311	10-AUG-91	1720	7.5	9.0	1379783.27	482215.72	1348314.23	482245.11
067393	27-AUG-91	1808	1.5	3.0	1379622.56	482142.91	1348153.53	482172.30
067394	27-AUG-91	1808	3.0	4.5	1379622.56	482142.91	1348153.53	482172.30
067395	27-AUG-91	1808	4.5	6.0	1379622.56	482142.91	1348153.53	482172.30
067396	27-AUG-91	1808	7.5	9.0	1379622.56	482142.91	1348153.53	482172.30
067398	27-AUG-91	1808	10.5	12.0	1379622.56	482142.91	1348153.53	482172.30
067405	27-AUG-91	1808	10.5	12.0	1379622.56	482142.91	1348153.53	482172.30
067714	23-FEB-92	1888	0.0	1.5	1379761.91	482124.84	1348292.88	482154.23
067717	23-FEB-92	1888	5.0	6.0	1379761.91	482124.84	1348292.88	482154.23
067718	23-FEB-92	1888	6.0	7.5	1379761.91	482124.84	1348292.88	482154.23
111293	01-APR-93	SWL-SS-01	0.0	0.5	1379574.57	482094.30	1348105.60	482123.70
111297	01-APR-93	SWL-SS-02	0.0	0.5	1379685.22	482093.01	1348216.25	482122.41
111298	01-APR-93	SWL-SS-03	0.0	0.5	1379781.30	482091.72	1348312.33	482121.12
111300	01-APR-93	SWL-SS-04	0.0	0.5	1379574.14	482163.38	1348105.17	482192.78
111301	01-APR-93	SWL-SS-05	0.0	0.5	1379674.50	482159.09	1348205.53	482188.49
111303	01-APR-93	SWL-SS-06	0.0	0.5	1379759.42	482155.66	1348290.45	482185.06
111304	02-APR-93	SWL-SS-07	0.0	0.5	1379684.37	482192.13	1348215.40	482221.53
111307	02-APR-93	SWL-SS-09	0.0	0.5	1379642.76	482231.60	1348173.79	482261.00
111309	02-APR-93	SWL-SS-10	0.0	0.5	1379697.23	482246.62	1348228.26	482276.02
111310	02-APR-93	SWL-SS-11	0.0	0.5	1379757.71	482262.21	1348288.74	482291.61
111312	02-APR-93	SWL-SS-12	0.0	0.5	1379818.22	482262.09	1348349.25	482291.50

000047

TABLE A.2-4
(Continued)

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
111441	26-APR-93	1985	2.0	4.0	1379724.66	482092.47	1348255.64	482121.87
111452	28-APR-93	1986	2.5	5.0	1379724.53	482114.80	1348255.50	482144.20
111466	01-MAY-93	1984	2.5	5.0	1379666.47	482096.15	1348197.45	482125.55
111476	03-MAY-93	1983	1.5	2.5	1379593.72	482173.32	1348124.69	482202.72
111477	03-MAY-93	1983	2.5	5.0	1379593.72	482173.32	1348124.69	482202.72
111484	06-MAY-93	1982	0.0	2.5	1379595.20	482223.30	1348126.17	482252.70
111492	19-APR-93	SWL-SS-08	0.0	0.5	1379760.28	482192.99	1348291.31	482222.39
115319	06-MAY-93	1991	7.5	10.0	1379689.37	482196.10	1348220.40	482225.50
115329	10-MAY-93	1990	6.0	9.0	1379660.29	482165.44	1348191.26	482194.84
115339	11-MAY-93	1993	2.5	5.0	1379778.93	482177.83	1348309.90	482207.23
115343	11-MAY-93	1992	7.5	10.0	1379770.85	482243.09	1348301.82	482272.49
115350	12-MAY-93	1988	2.5	5.0	1379767.17	482118.15	1348298.14	482147.55
115357	13-MAY-93	1987	5.0	7.5	1379617.96	482147.62	1348148.93	482177.02
115362	14-MAY-93	1989	2.5	5.0	1379619.43	482197.59	1348150.40	482226.99
115371	15-MAY-93	11037	5.0	7.5	1379722.92	482133.33	1348253.89	482162.73
115376	16-MAY-93	11038	0.0	2.5	1379746.55	482115.28	1348277.52	482144.68
115381	17-MAY-93	11036	2.5	5.0	1379701.23	482111.18	1348232.20	482140.58
115384	19-MAY-93	11039	2.5	5.0	1379772.85	482146.04	1348303.82	482175.44
115389	19-MAY-93	11041	0.0	2.5	1379682.69	482213.71	1348213.66	482243.11
115392	20-MAY-93	11040	2.5	5.0	1379718.94	482181.43	1348249.97	482210.83
111293	01-APR-93	SWL-SS-01	0.0	0.5	1379574.57	482094.30	1348105.60	1348105.60

000048

TABLE A.2-5

SAMPLE LIST - IMPACTED TILL
SOLID WASTE LANDFILL

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
067257	30-JUL-91	1722	11.0	12.5	1379739.45	482114.81	1348270.42	482144.20
067258	30-JUL-91	1722	12.5	14.0	1379739.45	482114.81	1348270.42	482144.20
067312	10-AUG-91	1720	9.0	10.5	1379783.27	482215.72	1348314.23	482245.11
067313	10-AUG-91	1720	9.0	10.5	1379783.27	482215.72	1348314.23	482245.11
067400	27-AUG-91	1808	13.5	15.0	1379622.56	482142.91	1348153.53	482172.30
067406	27-AUG-91	1808	13.5	15.0	1379622.56	482142.91	1348153.53	482172.30

000049

TABLE A.2-6

SAMPLE LIST - OTHER TILL
SOLID WASTE LANDFILL

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
007968	20-JAN-88	3037	22.5	24.0	1379791.96	482141.43	1348322.93	482170.82
008388	21-MAR-88	1035	21.0	22.5	1379710.46	482200.60	1348241.43	482230.00
067233	26-JUL-91	1721	7.5	9.0	1379785.34	482136.40	1348316.31	482165.79
067234	26-JUL-91	1721	9.0	10.5	1379785.34	482136.40	1348316.31	482165.79
067237	27-JUL-91	1721	13.5	15.0	1379785.34	482136.40	1348316.31	482165.79
067238	28-JUL-91	1721	15.0	16.5	1379785.34	482136.40	1348316.31	482165.79
067259	30-JUL-91	1722	14.0	16.5	1379739.45	482114.81	1348270.42	482144.20
067278	01-AUG-91	1718	13.5	15.0	1379619.44	482144.49	1348150.41	482173.88
067279	01-AUG-91	1718	15.0	16.5	1379619.44	482144.49	1348150.41	482173.88
067295	08-AUG-91	1719	15.0	16.5	1379699.18	482215.57	1348230.14	482244.96
067296	08-AUG-91	1719	16.5	18.0	1379699.18	482215.57	1348230.14	482244.96
067300	08-AUG-91	1719	18.0	19.5	1379699.18	482215.57	1348230.14	482244.96
067401	27-AUG-91	1808	15.0	16.5	1379622.56	482142.91	1348153.53	482172.30
067740	25-FEB-92	1889	15.5	17.5	1379765.86	482121.36	1348296.83	482150.75
111448	27-APR-93	1985	15.0	17.0	1379724.66	482092.47	1348255.64	482121.87
111458	30-APR-93	1986	12.5	15.0	1379724.53	482114.80	1348255.50	482144.20
111468	01-MAY-93	1984	12.5	15.0	1379666.47	482096.15	1348197.45	482125.55
111480	05-MAY-93	1983	17.5	20.0	1379593.72	482173.32	1348124.69	482202.72
111487	06-MAY-93	1982	7.5	10.0	1379595.20	482223.30	1348126.17	482252.70
115321	06-MAY-93	1991	12.0	15.0	1379689.37	482196.10	1348220.40	482225.50
115335	10-MAY-93	1990	17.5	20.0	1379660.29	482165.44	1348191.26	482194.84
115340	11-MAY-93	1993	15.0	17.5	1379778.93	482177.83	1348309.90	482207.23
115346	11-MAY-93	1992	17.5	20.0	1379770.85	482243.09	1348301.82	482272.49
115351	12-MAY-93	1988	17.5	20.0	1379767.17	482118.15	1348298.14	482147.55
115359	13-MAY-93	1987	12.5	15.0	1379617.96	482147.62	1348148.93	482177.02
115363	14-MAY-93	1989	12.5	15.0	1379619.43	482197.59	1348150.40	482226.99
115372	15-MAY-93	11037	17.5	20.0	1379722.92	482133.33	1348253.89	482162.73
115377	16-MAY-93	11038	12.5	15.0	1379746.55	482115.28	1348277.52	482144.68
115380	17-MAY-93	11036	17.0	19.0	1379701.23	482111.18	1348232.20	482140.58
115385	19-MAY-93	11039	12.0	14.0	1379772.85	482146.04	1348303.82	482175.44
115390	19-MAY-93	11041	12.5	15.0	1379682.69	482213.71	1348213.66	482243.11
115393	20-MAY-93	11040	12.5	15.0	1379718.94	482181.43	1348249.97	482210.83

000050

TABLE A.2-7

SAMPLE LIST - TILL, OUTSIDE BATTERY LIMITS
SOLID WASTE LANDFILL

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
007901	12-JAN-88	1038	7.5	9.0	1379622.49	482055.43	1348153.47	482084.83
111432	21-APR-93	2951	0.0	5.1	1379554.77	482158.80	1348085.74	482188.20

TABLE A.2-8

SAMPLE LIST - GMA SOIL
INSIDE BATTERY LIMITS
SOLID WASTE LANDFILL

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
008107	22-JAN-88	3037	45.0	46.5	1379791.96	482141.43	1348322.93	482170.82
008117	25-JAN-88	3037	95.0	96.5	1379791.96	482141.43	1348322.93	482170.82

000052

TABLE A.2-9

SAMPLE LIST - SEDIMENT
SOLID WASTE LANDFILL

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
009100	11-JUL-88	ASIT-021	N\A	N\A	1379745.40	482277.80	1348276.36	482307.19
111325	06-APR-93	SWL-SD-02	N\A	N\A	1379529.58	482217.05	1348060.61	482246.45
111328	08-APR-93	SWL-SD-01	N\A	N\A	1379915.54	482270.22	1348446.57	482299.63

000053

TABLE A.2-10

SAMPLE LIST - PERCHED GROUNDWATER
INSIDE BATTERY LIMITS
SOLID WASTE LANDFILL

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
003245	25-MAY-88	1035	N\A	N\A	1379710.46	482200.60	1348241.43	482230.00
003560	11-AUG-88	1035	N\A	N\A	1379710.46	482200.60	1348241.43	482230.00
003736	15-NOV-88	1035	N\A	N\A	1379710.46	482200.60	1348241.43	482230.00
003931	05-FEB-89	1035	N\A	N\A	1379710.46	482200.60	1348241.43	482230.00
047006	09-JUN-92	1719	N\A	N\A	1379699.18	482215.57	1348230.14	482244.96
066826	06-JAN-90	1035	N\A	N\A	1379710.46	482200.60	1348241.43	482230.00
111552	05-MAY-93	1035	N\A	N\A	1379710.46	482200.60	1348241.43	482230.00
111553	05-MAY-93	1035	N\A	N\A	1379710.46	482200.60	1348241.43	482230.00

000054

TABLE A.2-11

SAMPLE LIST - PERCHED GROUNDWATER
OUTSIDE BATTERY LIMITS
SOLID WASTE LANDFILL

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
003183	11-MAY-88	1038	N\A	N\A	1379622.49	482055.43	1348153.47	482084.83
003518	22-AUG-88	1038	N\A	N\A	1379622.49	482055.43	1348153.47	482084.83
003762	20-NOV-88	1038	N\A	N\A	1379622.49	482055.43	1348153.47	482084.83
003947	05-FEB-89	1038	N\A	N\A	1379622.49	482055.43	1348153.47	482084.83
066431	18-JUN-89	1038	N\A	N\A	1379622.49	482055.43	1348153.47	482084.83
066495	13-AUG-89	1038	N\A	N\A	1379622.49	482055.43	1348153.47	482084.83
066666	21-NOV-89	1038	N\A	N\A	1379622.49	482055.43	1348153.47	482084.83
111548	05-MAY-93	1038	N\A	N\A	1379622.49	482055.43	1348153.47	482084.83
111549	05-MAY-93	1038	N\A	N\A	1379622.49	482055.43	1348153.47	482084.83
115468	15-MAY-93	1952	N\A	N\A	1379766.45	482057.73	1348297.43	482087.13
115471	15-MAY-93	1952	N\A	N\A	1379766.45	482057.73	1348297.43	482087.13
115480	08-JUN-93	1950	N\A	N\A	1379549.67	482202.10	1348080.64	482231.50
115481	08-JUN-93	1950	N\A	N\A	1379549.67	482202.10	1348080.64	482231.50
120487	28-JUL-93	1947	N\A	N\A	1379906.05	482108.00	1348437.02	482137.40

TABLE A.2-12
SOLID WASTE LANDFILL -SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111293	Antimony	SWL-SS-01	1.2	mg/kg	UJ	0.6	81.80%
111301	Antimony	SWL-SS-05	1.2	mg/kg	UJ	0.6	81.80%
111307	Antimony	SWL-SS-09	1.2	mg/kg	UJ	0.6	81.80%
111304	Antimony	SWL-SS-07	1.1	mg/kg	UJ	0.55	63.60%
111309	Antimony	SWL-SS-10	1.1	mg/kg	UJ	0.55	63.60%
111310	Antimony	SWL-SS-11	1	mg/kg	UJ	0.5	54.50%
111300	Antimony	SWL-SS-04	0.96	mg/kg	UJ	0.48	45.40%
111298	Antimony	SWL-SS-03	0.93	mg/kg	UJ	0.465	36.30%
111297	Antimony	SWL-SS-02	0.9	mg/kg	UJ	0.45	27.20%
111492	Antimony	SWL-SS-08	0.89	mg/kg	UJ	0.445	18.10%
111312	Antimony	SWL-SS-12	0.85	mg/kg	UJ	0.425	9.00%
111303	Antimony	SWL-SS-06	0.84	mg/kg	UJ	0.42	.00%

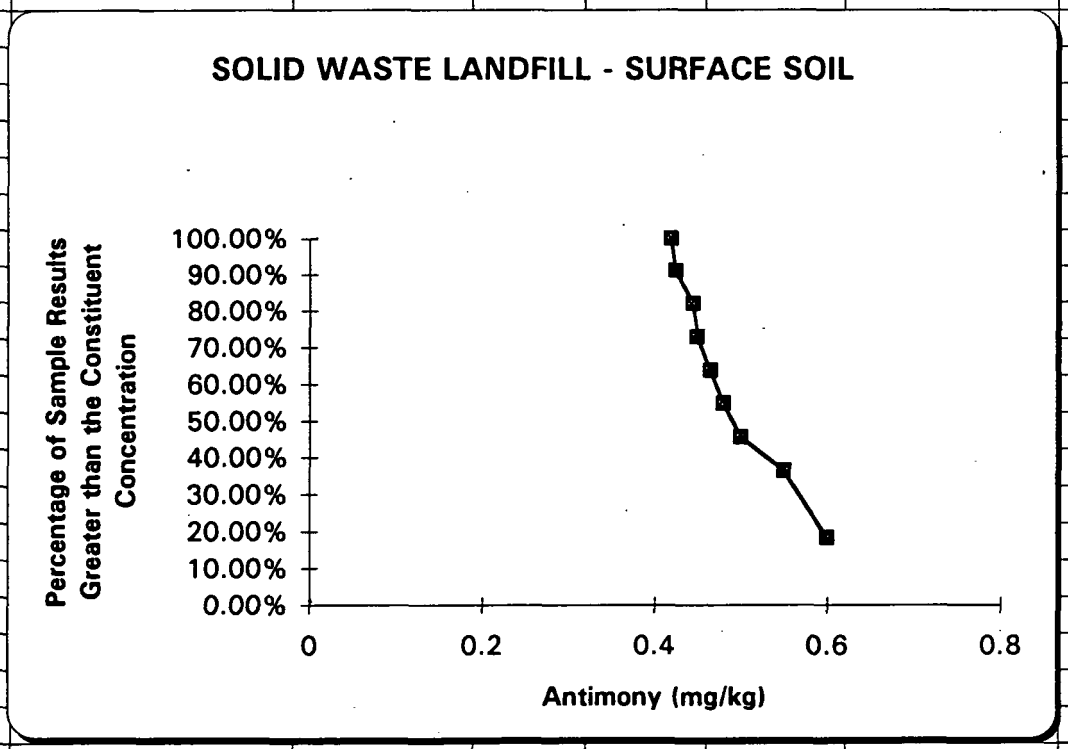

TABLE A.2-12
SOLID WASTE LANDFILL -SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111301	Arsenic	SWL-SS-05	8.3	mg/kg	-	8.3	100.00%
111307	Arsenic	SWL-SS-09	7	mg/kg	-	7	90.90%
111297	Arsenic	SWL-SS-02	6.7	mg/kg	-	6.7	81.81%
111293	Arsenic	SWL-SS-01	6.6	mg/kg	-	6.6	72.72%
111298	Arsenic	SWL-SS-03	6.4	mg/kg	-	6.4	63.63%
111492	Arsenic	SWL-SS-08	6.3	mg/kg	J	6.3	54.54%
111300	Arsenic	SWL-SS-04	6.1	mg/kg	-	6.1	45.45%
111303	Arsenic	SWL-SS-06	6	mg/kg	-	6	36.36%
111310	Arsenic	SWL-SS-11	5.5	mg/kg	-	5.5	27.27%
111304	Arsenic	SWL-SS-07	5.4	mg/kg	-	5.4	18.18%
111309	Arsenic	SWL-SS-10	5	mg/kg	-	5	9.09%
111312	Arsenic	SWL-SS-12	4.4	mg/kg	-	4.4	0.00%

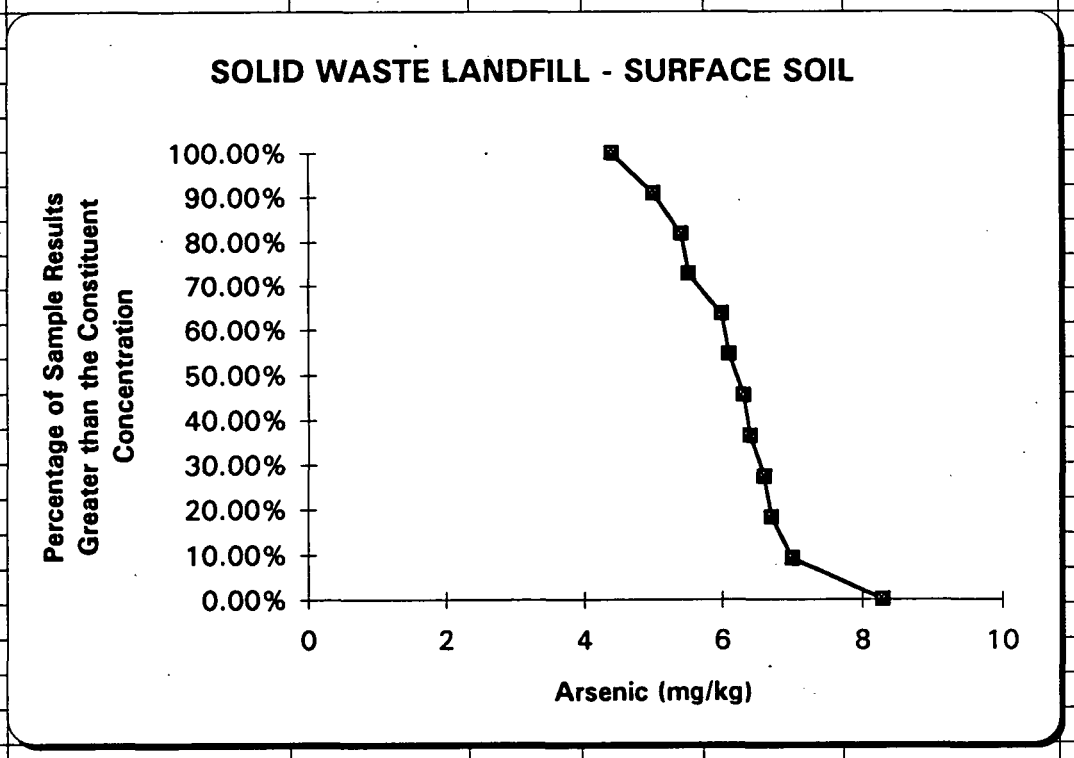

TABLE A.2-12
SOLID WASTE LANDFILL -SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111293	Benzo(a)anthracene	SWL-SS-01	880	ug/kg	J	880	100.00%
111307	Benzo(a)anthracene	SWL-SS-09	460	ug/kg	UJ	230	90.90%
111303	Benzo(a)anthracene	SWL-SS-06	220	ug/kg	J	220	81.80%
111309	Benzo(a)anthracene	SWL-SS-10	420	ug/kg	UJ	210	72.70%
111297	Benzo(a)anthracene	SWL-SS-02	410	ug/kg	UJ	205	54.50%
111312	Benzo(a)anthracene	SWL-SS-12	410	ug/kg	UJ	205	54.50%
111310	Benzo(a)anthracene	SWL-SS-11	400	ug/kg	UJ	200	45.40%
111304	Benzo(a)anthracene	SWL-SS-07	390	ug/kg	UJ	195	36.30%
111300	Benzo(a)anthracene	SWL-SS-04	140	ug/kg	J	140	27.20%
111298	Benzo(a)anthracene	SWL-SS-03	110	ug/kg	J	110	18.10%
111492	Benzo(a)anthracene	SWL-SS-08	79	ug/kg	J	79	9.00%
111301	Benzo(a)anthracene	SWL-SS-05	55	ug/kg	J	55	.00%

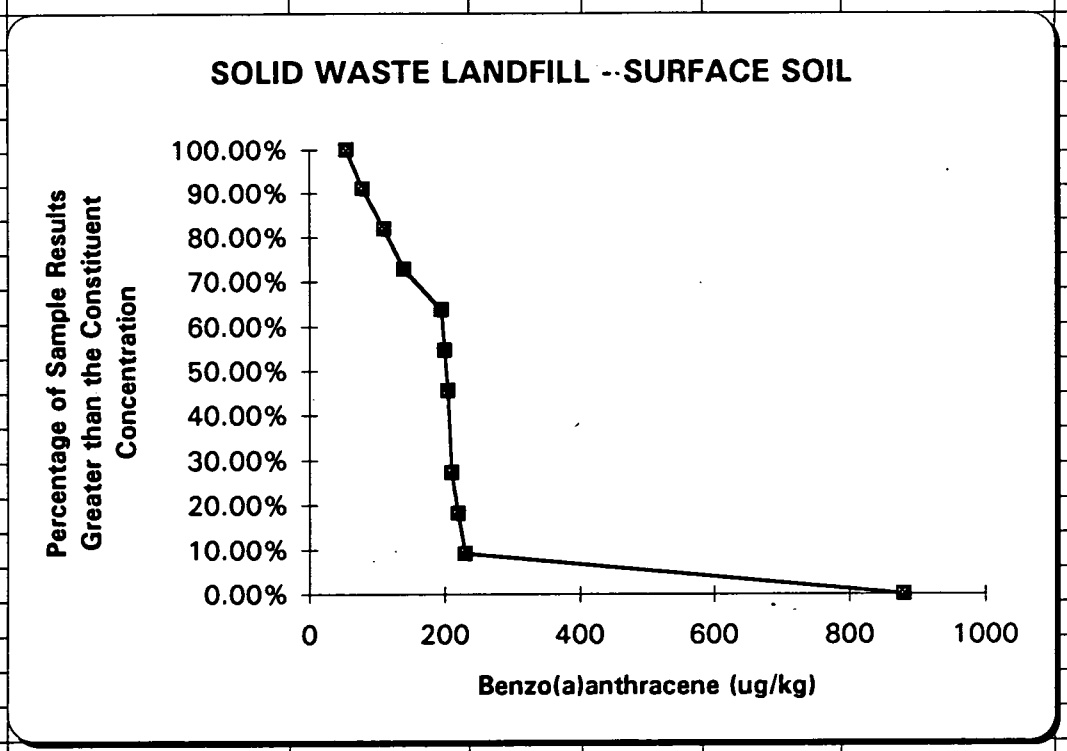

TABLE A.2-12
SOLID WASTE LANDFILL -SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111293	Benzo(a)pyrene	SWL-SS-01	760	ug/kg	J	760	100.00%
111307	Benzo(a)pyrene	SWL-SS-09	460	ug/kg	UJ	230	90.90%
111309	Benzo(a)pyrene	SWL-SS-10	420	ug/kg	UJ	210	81.81%
111297	Benzo(a)pyrene	SWL-SS-02	410	ug/kg	UJ	205	63.63%
111312	Benzo(a)pyrene	SWL-SS-12	410	ug/kg	UJ	205	63.63%
111310	Benzo(a)pyrene	SWL-SS-11	400	ug/kg	UJ	200	54.54%
111304	Benzo(a)pyrene	SWL-SS-07	390	ug/kg	UJ	195	45.45%
111303	Benzo(a)pyrene	SWL-SS-06	190	ug/kg	J	190	36.36%
111300	Benzo(a)pyrene	SWL-SS-04	140	ug/kg	J	140	27.27%
111298	Benzo(a)pyrene	SWL-SS-03	110	ug/kg	J	110	18.18%
111492	Benzo(a)pyrene	SWL-SS-08	67	ug/kg	J	67	9.09%
111301	Benzo(a)pyrene	SWL-SS-05	59	ug/kg	J	59	0.00%

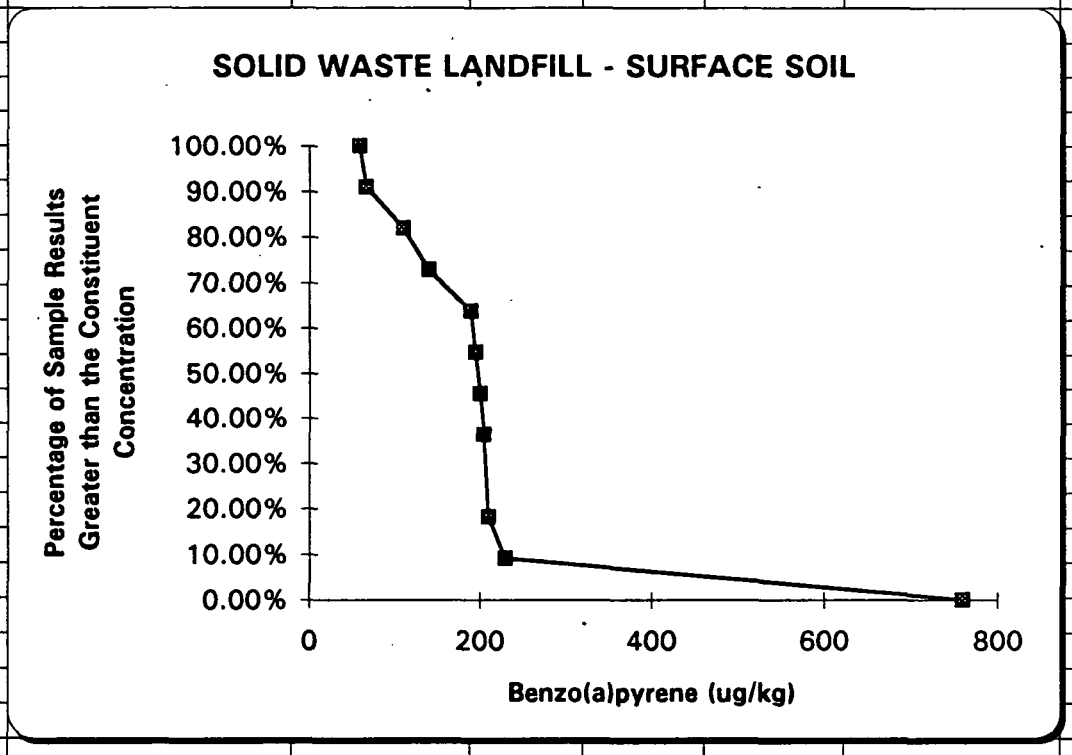

TABLE A.2-12
SOLID WASTE LANDFILL -SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111293	Benzo(b)fluoranthene	SWL-SS-01	710	ug/kg	J	710	100.00%
111307	Benzo(b)fluoranthene	SWL-SS-09	460	ug/kg	UJ	230	90.90%
111309	Benzo(b)fluoranthene	SWL-SS-10	420	ug/kg	UJ	210	81.81%
111297	Benzo(b)fluoranthene	SWL-SS-02	410	ug/kg	UJ	205	54.54%
111301	Benzo(b)fluoranthene	SWL-SS-05	410	ug/kg	UJ	205	54.54%
111312	Benzo(b)fluoranthene	SWL-SS-12	410	ug/kg	UJ	205	54.54%
111310	Benzo(b)fluoranthene	SWL-SS-11	400	ug/kg	UJ	200	45.45%
111304	Benzo(b)fluoranthene	SWL-SS-07	390	ug/kg	UJ	195	36.36%
111303	Benzo(b)fluoranthene	SWL-SS-06	150	ug/kg	J	150	27.27%
111300	Benzo(b)fluoranthene	SWL-SS-04	140	ug/kg	J	140	18.18%
111298	Benzo(b)fluoranthene	SWL-SS-03	96	ug/kg	J	96	9.09%
111492	Benzo(b)fluoranthene	SWL-SS-08	64	ug/kg	J	64	0.00%

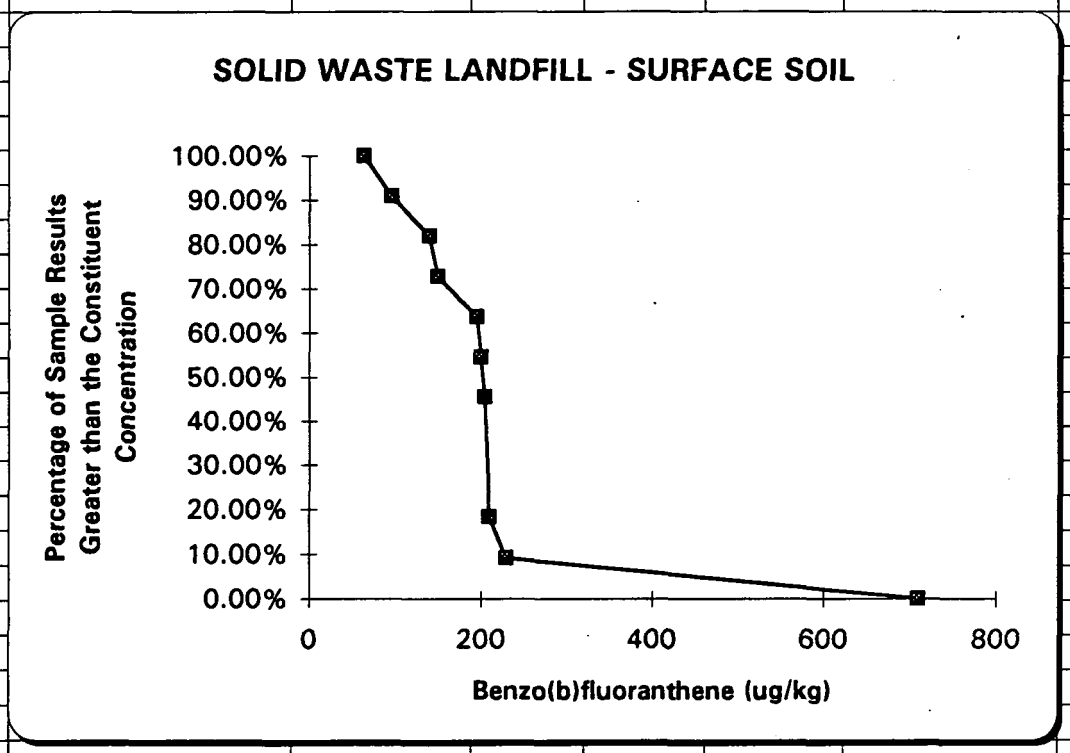

TABLE A.2-12
SOLID WASTE LANDFILL -SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111309	Beryllium	SWL-SS-10	0.97	mg/kg	-	0.97	100.00%
111307	Beryllium	SWL-SS-09	0.85	mg/kg	-	0.85	90.90%
111300	Beryllium	SWL-SS-04	0.72	mg/kg	-	0.72	81.81%
111312	Beryllium	SWL-SS-12	0.63	mg/kg	-	0.63	72.72%
111301	Beryllium	SWL-SS-05	0.58	mg/kg	-	0.58	63.63%
111303	Beryllium	SWL-SS-06	0.57	mg/kg	-	0.57	54.54%
111297	Beryllium	SWL-SS-02	0.55	mg/kg	-	0.55	45.45%
111293	Beryllium	SWL-SS-01	0.53	mg/kg	-	0.53	36.36%
111304	Beryllium	SWL-SS-07	0.51	mg/kg	-	0.51	27.27%
111298	Beryllium	SWL-SS-03	0.48	mg/kg	-	0.48	18.18%
111310	Beryllium	SWL-SS-11	0.46	mg/kg	-	0.46	0.00%
111492	Beryllium	SWL-SS-08	0.46	mg/kg	-	0.46	0.00%

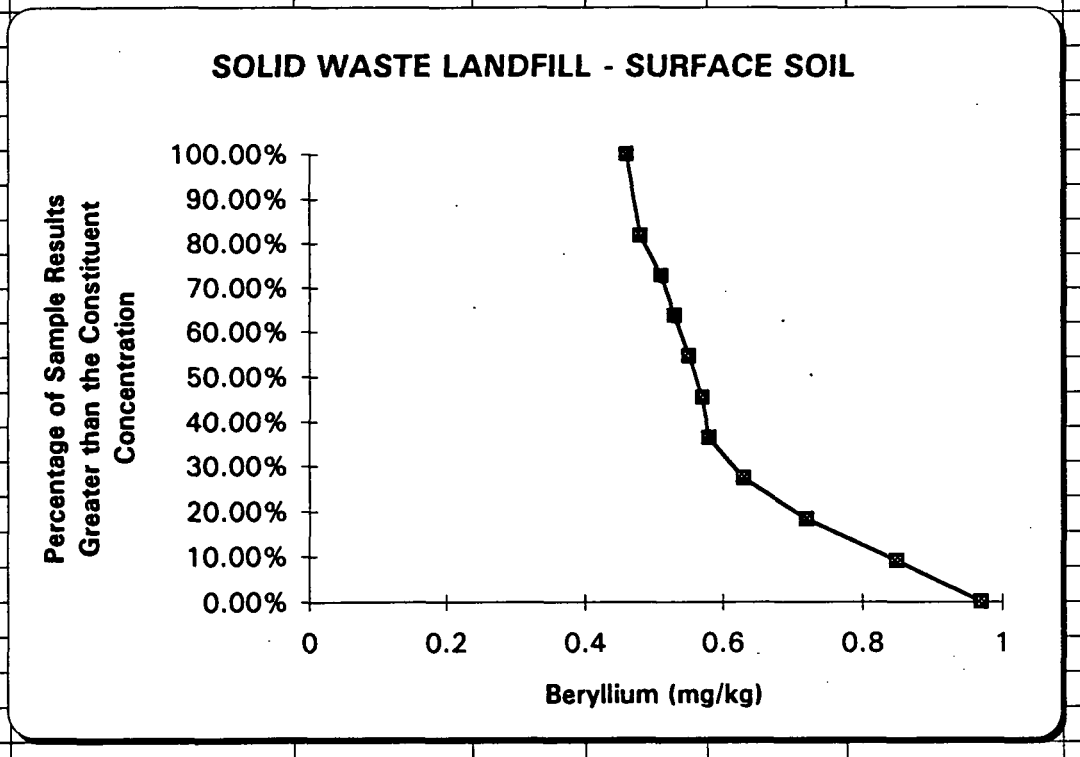

TABLE A.2-12
SOLID WASTE LANDFILL -SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111300	Carbazole	SWL-SS-04	460	ug/kg	UJ	230	90.90%
111307	Carbazole	SWL-SS-09	460	ug/kg	UJ	230	90.90%
111309	Carbazole	SWL-SS-10	420	ug/kg	UJ	210	81.81%
111297	Carbazole	SWL-SS-02	410	ug/kg	UJ	205	45.45%
111301	Carbazole	SWL-SS-05	410	ug/kg	UJ	205	45.45%
111303	Carbazole	SWL-SS-06	410	ug/kg	UJ	205	45.45%
111312	Carbazole	SWL-SS-12	410	ug/kg	UJ	205	45.45%
111492	Carbazole	SWL-SS-08	400	ug/kg	U	200	27.27%
111310	Carbazole	SWL-SS-11	400	ug/kg	UJ	200	27.27%
111298	Carbazole	SWL-SS-03	390	ug/kg	UJ	195	9.09%
111304	Carbazole	SWL-SS-07	390	ug/kg	UJ	195	9.09%
111293	Carbazole	SWL-SS-01	77	ug/kg	J	77	0.00%

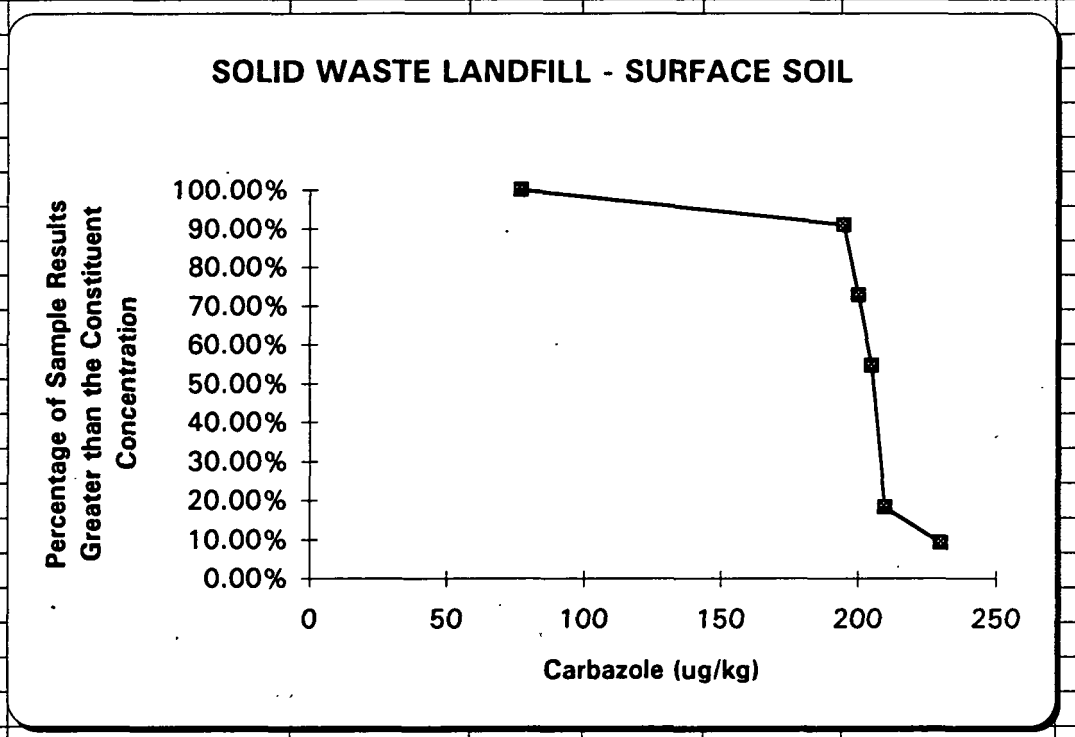

TABLE A.2-12
SOLID WASTE LANDFILL -SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111300	Dibenzo(a,h)anthracene	SWL-SS-04	460	ug/kg	UJ	230	90.90%
111307	Dibenzo(a,h)anthracene	SWL-SS-09	460	ug/kg	UJ	230	90.90%
111309	Dibenzo(a,h)anthracene	SWL-SS-10	420	ug/kg	UJ	210	81.81%
111297	Dibenzo(a,h)anthracene	SWL-SS-02	410	ug/kg	UJ	205	54.54%
111301	Dibenzo(a,h)anthracene	SWL-SS-05	410	ug/kg	UJ	205	54.54%
111312	Dibenzo(a,h)anthracene	SWL-SS-12	410	ug/kg	UJ	205	54.54%
111293	Dibenzo(a,h)anthracene	SWL-SS-01	200	ug/kg	J	200	27.27%
111492	Dibenzo(a,h)anthracene	SWL-SS-08	400	ug/kg	U	200	27.27%
111310	Dibenzo(a,h)anthracene	SWL-SS-11	400	ug/kg	UJ	200	27.27%
111298	Dibenzo(a,h)anthracene	SWL-SS-03	390	ug/kg	UJ	195	9.09%
111304	Dibenzo(a,h)anthracene	SWL-SS-07	390	ug/kg	UJ	195	9.09%
111303	Dibenzo(a,h)anthracene	SWL-SS-06	56	ug/kg	J	56	0.00%

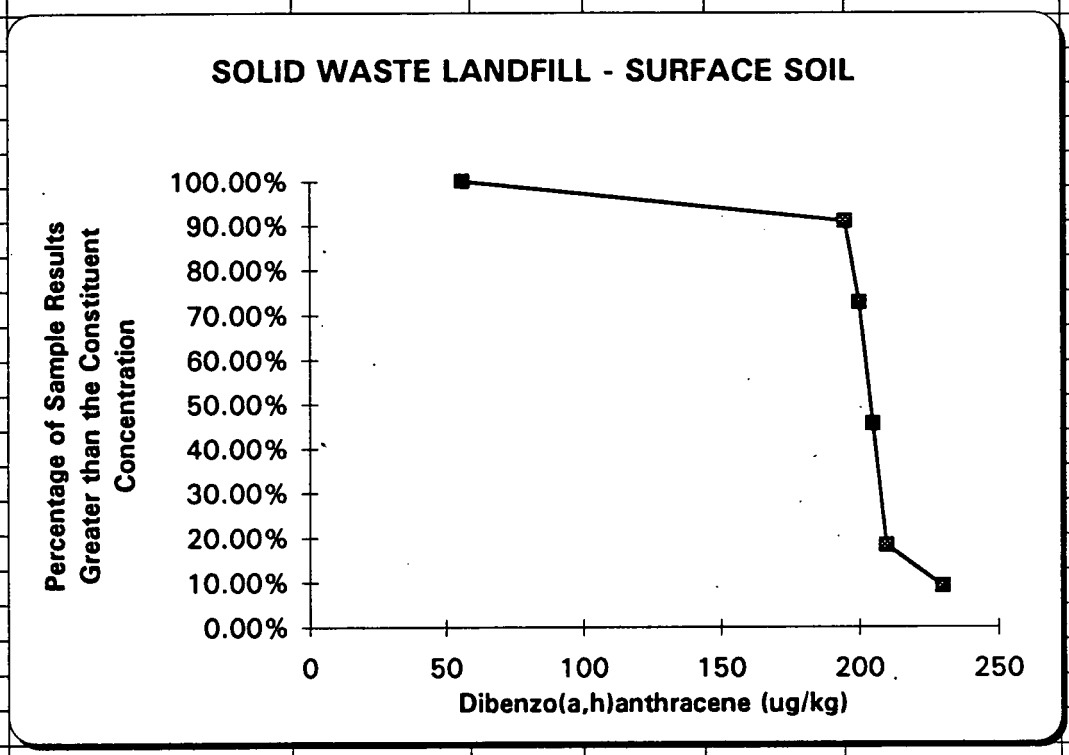

TABLE A.2-12
SOLID WASTE LANDFILL -SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111293	Indeno(1,2,3-cd)pyrene	SWL-SS-01	480	ug/kg	J	480	100.00%
111307	Indeno(1,2,3-cd)pyrene	SWL-SS-09	460	ug/kg	UJ	230	90.90%
111309	Indeno(1,2,3-cd)pyrene	SWL-SS-10	420	ug/kg	UJ	210	81.81%
111297	Indeno(1,2,3-cd)pyrene	SWL-SS-02	410	ug/kg	UJ	205	54.54%
111301	Indeno(1,2,3-cd)pyrene	SWL-SS-05	410	ug/kg	UJ	205	54.54%
111312	Indeno(1,2,3-cd)pyrene	SWL-SS-12	410	ug/kg	UJ	205	54.54%
111310	Indeno(1,2,3-cd)pyrene	SWL-SS-11	400	ug/kg	UJ	200	45.45%
111304	Indeno(1,2,3-cd)pyrene	SWL-SS-07	390	ug/kg	UJ	195	36.36%
111303	Indeno(1,2,3-cd)pyrene	SWL-SS-06	100	ug/kg	J	100	27.27%
111300	Indeno(1,2,3-cd)pyrene	SWL-SS-04	91	ug/kg	J	91	18.18%
111298	Indeno(1,2,3-cd)pyrene	SWL-SS-03	73	ug/kg	J	73	9.09%
111492	Indeno(1,2,3-cd)pyrene	SWL-SS-08	46	ug/kg	J	46	0.00%

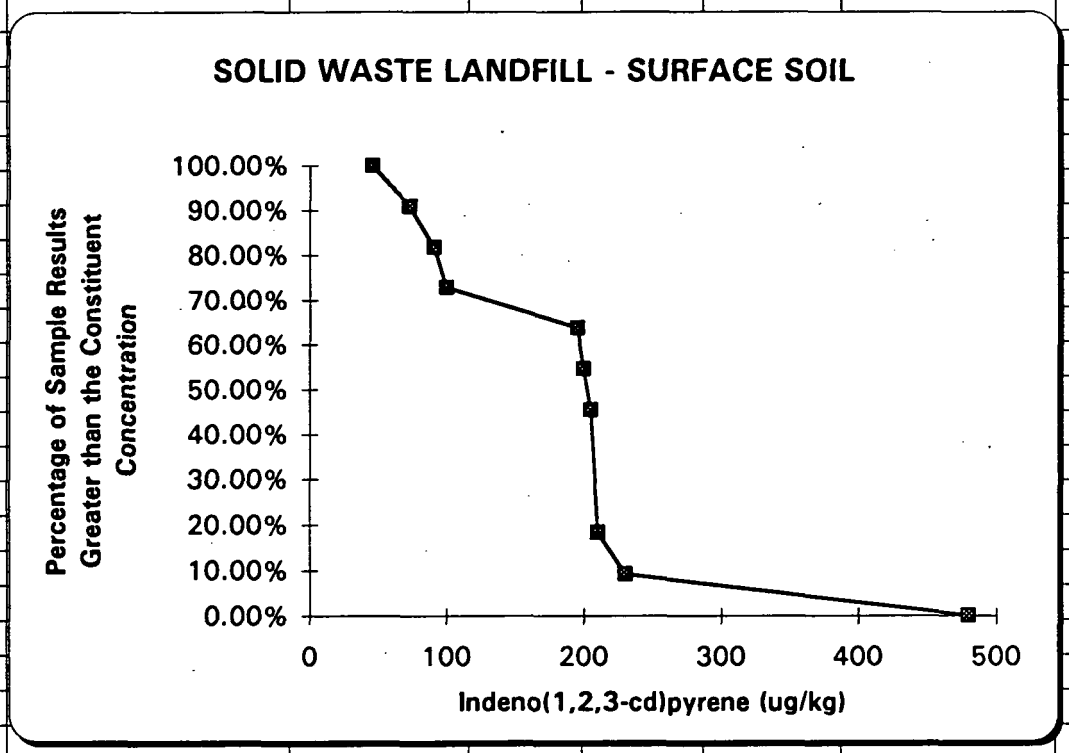

TABLE A.2-12
SOLID WASTE LANDFILL -SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111312	Neptunium-237	SWL-SS-12	3.11	pci/g	N	3.11	100.00%
111301	Neptunium-237	SWL-SS-05	0.194	pci/g	N	0.194	85.71%
111298	Neptunium-237	SWL-SS-03	0.147	pci/g	N	0.147	71.42%
111297	Neptunium-237	SWL-SS-02	0.115	pci/g	N	0.115	57.14%
111492	Neptunium-237	SWL-SS-08	0.0747	pci/g	N	0.0747	42.85%
111307	Neptunium-237	SWL-SS-09	0.0639	pci/g	N	0.0639	28.57%
111309	Neptunium-237	SWL-SS-10	0.046	pci/g	N	0.046	14.28%
111304	Neptunium-237	SWL-SS-07	0.0457	pci/g	N	0.0457	0.00%

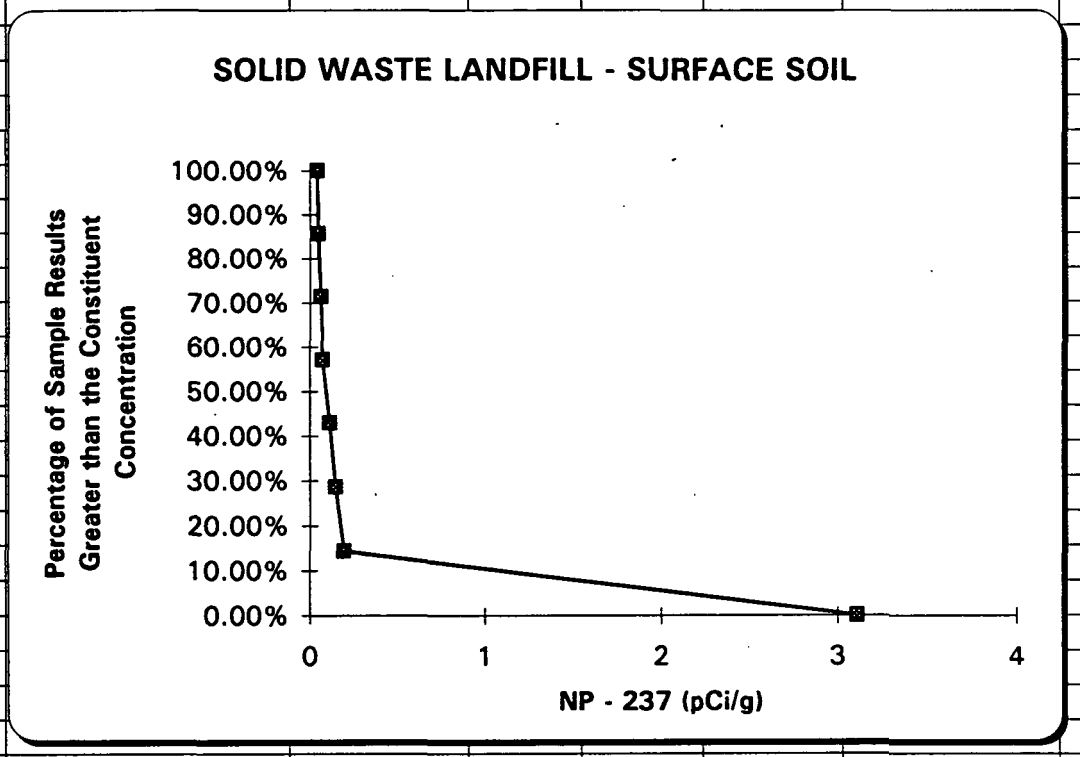

TABLE A.2-12
SOLID WASTE LANDFILL -SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111492	Plutonium-238	SWL-SS-08	0.9024	pci/g	J	0.9024	100.00%
111312	Plutonium-238	SWL-SS-12	0.333	pci/g	J	0.333	90.90%
111300	Plutonium-238	SWL-SS-04	0.207	pci/g	J	0.207	81.81%
111309	Plutonium-238	SWL-SS-10	0.0968	pci/g	J	0.0968	72.72%
111298	Plutonium-238	SWL-SS-03	0.095	pci/g	J	0.095	63.63%
111301	Plutonium-238	SWL-SS-05	0.0718	pci/g	J	0.0718	54.54%
111297	Plutonium-238	SWL-SS-02	0.0573	pci/g	J	0.0573	45.45%
111303	Plutonium-238	SWL-SS-06	0.049	pci/g	J	0.049	36.36%
111304	Plutonium-238	SWL-SS-07	0.0228	pci/g	J	0.0228	27.27%
111307	Plutonium-238	SWL-SS-09	0.0191	pci/g	J	0.0191	18.18%
111293	Plutonium-238	SWL-SS-01	0.0264	pci/g	UJ	0.0132	9.09%
111310	Plutonium-238	SWL-SS-11	0.0153	pci/g	UJ	0.00765	0.00%

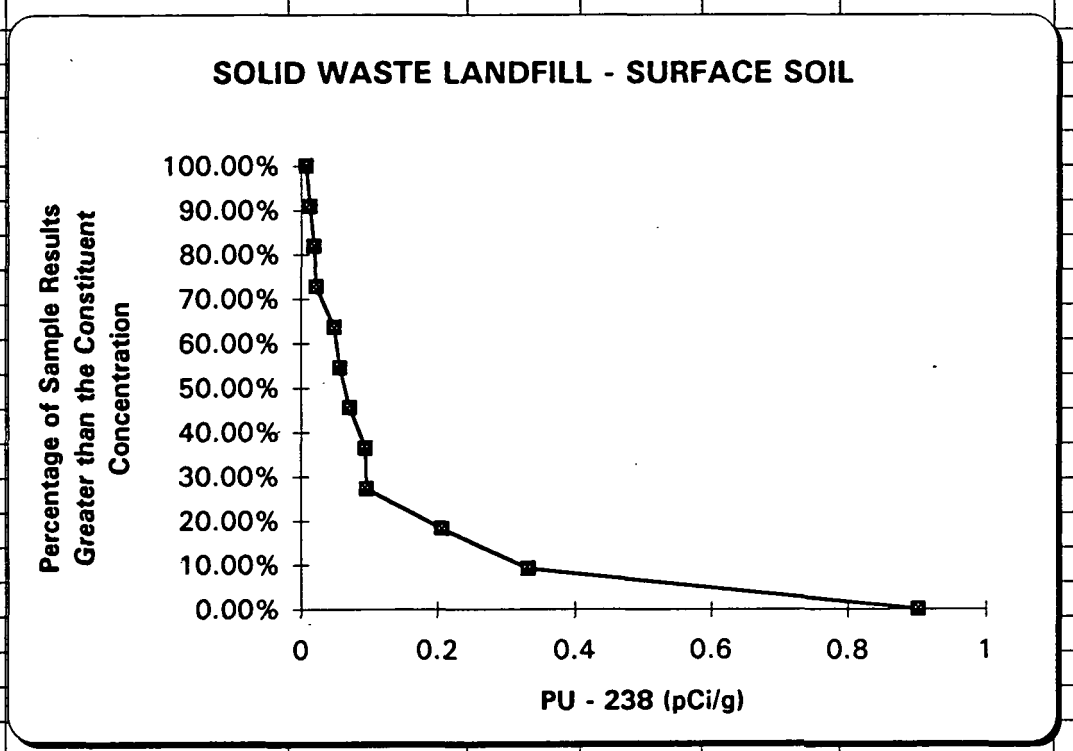

TABLE A.2-12
SOLID WASTE LANDFILL -SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111307	Radium-226	SWL-SS-09	2.26	pci/g	-	2.26	100.00%
111301	Radium-226	SWL-SS-05	1.59	pci/g	-	1.59	90.90%
111303	Radium-226	SWL-SS-06	1.26	pci/g	-	1.26	81.81%
111297	Radium-226	SWL-SS-02	1.16	pci/g	-	1.16	72.72%
111312	Radium-226	SWL-SS-12	1.13	pci/g	-	1.13	63.63%
111300	Radium-226	SWL-SS-04	1.12	pci/g	-	1.12	45.45%
111492	Radium-226	SWL-SS-08	1.12	pci/g	-	1.12	45.45%
111298	Radium-226	SWL-SS-03	1.04	pci/g	-	1.04	36.36%
111309	Radium-226	SWL-SS-10	1.01	pci/g	-	1.01	27.27%
111304	Radium-226	SWL-SS-07	0.975	pci/g	-	0.975	18.18%
111310	Radium-226	SWL-SS-11	0.92	pci/g	-	0.92	9.09%
111293	Radium-226	SWL-SS-01	0.915	pci/g	-	0.915	0.00%

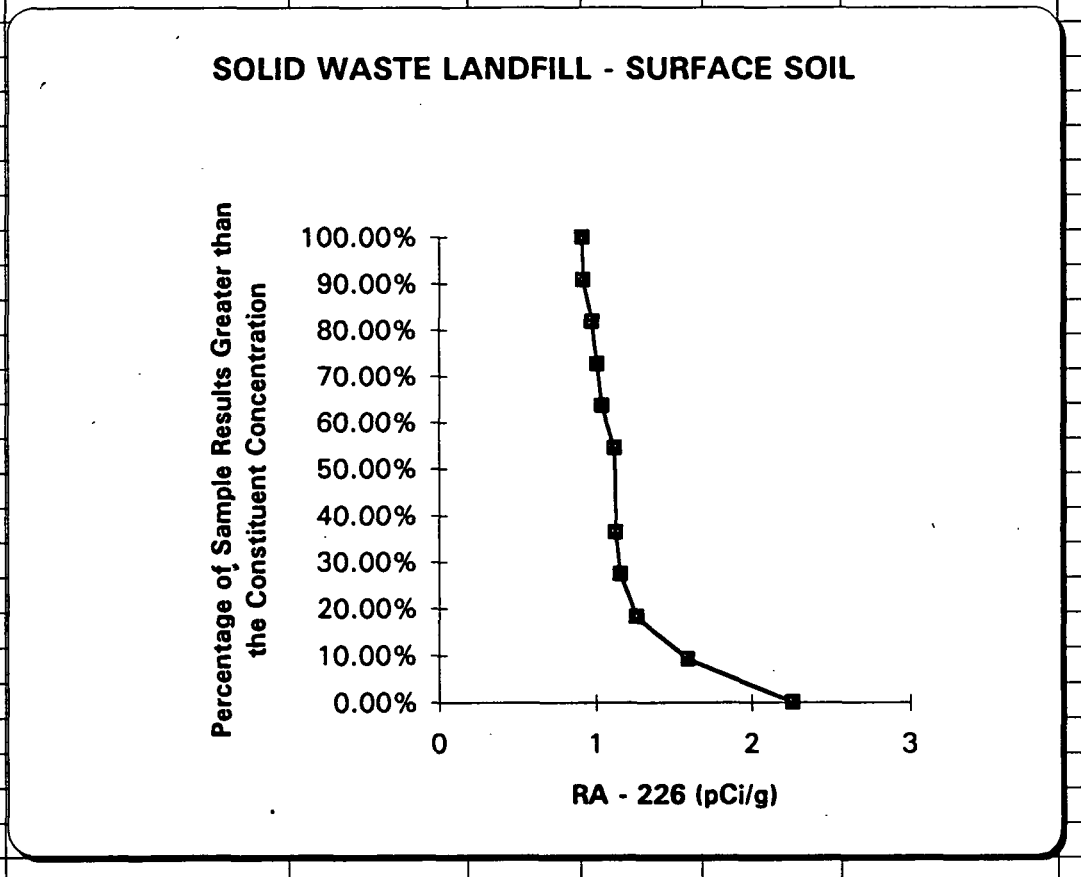

TABLE A.2-12
SOLID WASTE LANDFILL -SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111300	Radium-228	SWL-SS-04	2.99	pci/g	-	2.99	100.00%
111312	Radium-228	SWL-SS-12	2.07	pci/g	-	2.07	90.90%
111492	Radium-228	SWL-SS-08	1.45	pci/g	-	1.45	81.81%
111301	Radium-228	SWL-SS-05	1.3	pci/g	-	1.3	72.72%
111298	Radium-228	SWL-SS-03	1.28	pci/g	-	1.28	63.63%
111309	Radium-228	SWL-SS-10	1.21	pci/g	-	1.21	54.54%
111307	Radium-228	SWL-SS-09	1.16	pci/g	-	1.16	45.45%
111297	Radium-228	SWL-SS-02	1.01	pci/g	-	1.01	36.36%
111303	Radium-228	SWL-SS-06	0.918	pci/g	-	0.918	27.27%
111310	Radium-228	SWL-SS-11	0.847	pci/g	-	0.847	18.18%
111293	Radium-228	SWL-SS-01	0.843	pci/g	-	0.843	9.09%
111304	Radium-228	SWL-SS-07	0.721	pci/g	-	0.721	0.00%

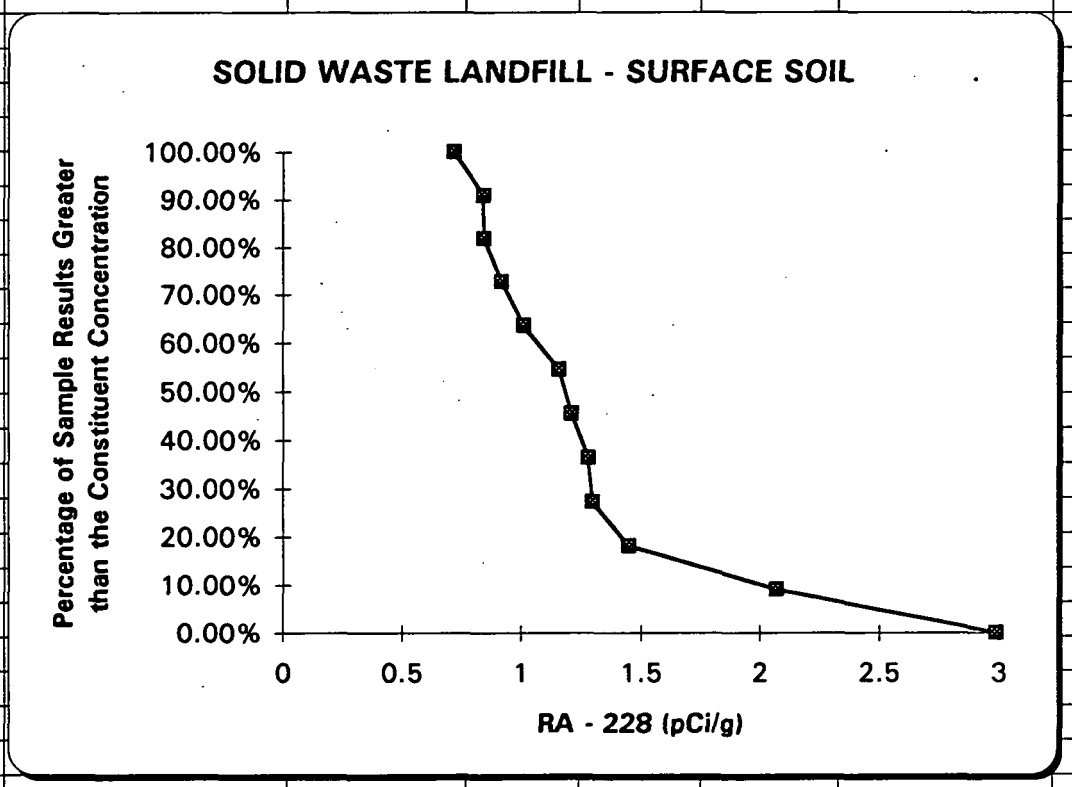

TABLE A.2-12
SOLID WASTE LANDFILL -SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111307	Strontium-90	SWL-SS-09	1.44	pci/g	J	1.44	100.00%
111297	Strontium-90	SWL-SS-02	1.23	pci/g	J	1.23	90.90%
111300	Strontium-90	SWL-SS-04	1.09	pci/g	J	1.09	81.80%
111312	Strontium-90	SWL-SS-12	1.07	pci/g	J	1.07	72.70%
111304	Strontium-90	SWL-SS-07	1.05	pci/g	J	1.05	63.60%
111303	Strontium-90	SWL-SS-06	0.789	pci/g	J	0.789	54.50%
111293	Strontium-90	SWL-SS-01	0.58	pci/g	J	0.58	45.40%
111309	Strontium-90	SWL-SS-10	0.527	pci/g	J	0.527	36.30%
111301	Strontium-90	SWL-SS-05	0.525	pci/g	UJ	0.2625	27.20%
111298	Strontium-90	SWL-SS-03	0.477	pci/g	UJ	0.2385	18.10%
111492	Strontium-90	SWL-SS-08	0.432	pci/g	UJ	0.216	9.00%
111310	Strontium-90	SWL-SS-11	0.422	pci/g	UJ	0.211	.00%

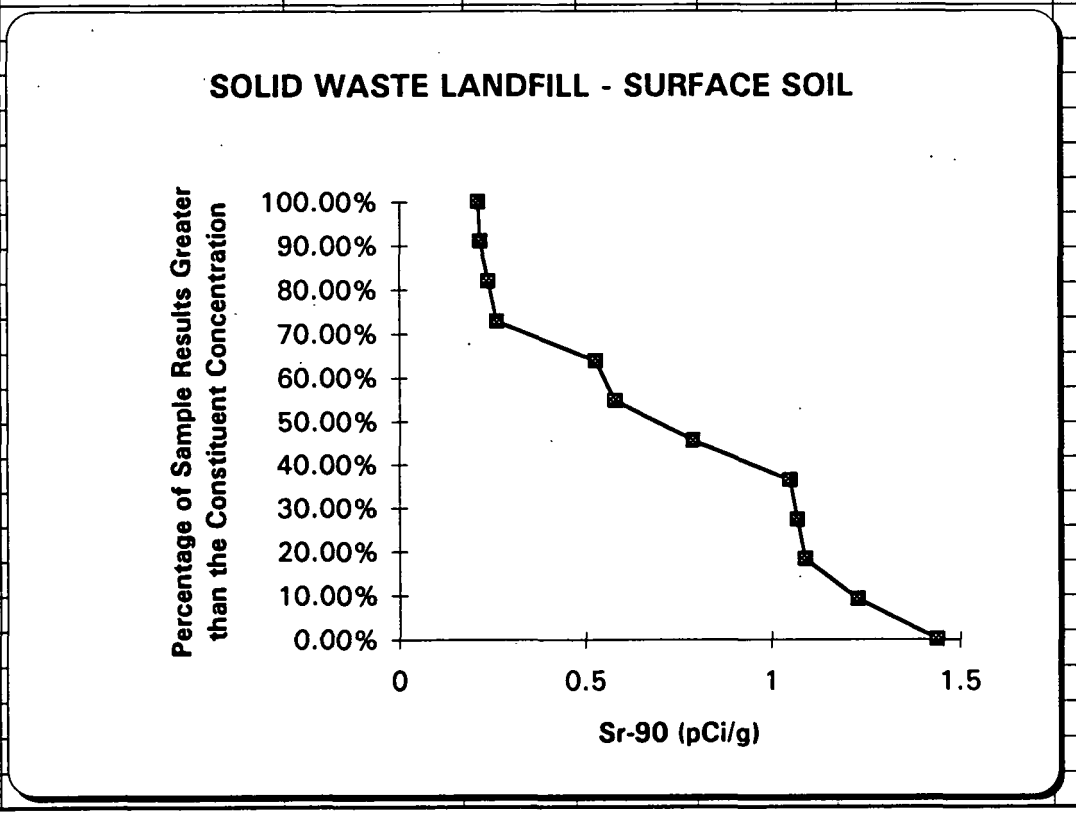

TABLE A.2-12
SOLID WASTE LANDFILL - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111492	Technetium-99	SWL-SS-08	0.373	pci/g	UJ	0.1865	100.00%
111303	Technetium-99	SWL-SS-06	0.358	pci/g	UJ	0.179	81.81%
111310	Technetium-99	SWL-SS-11	0.358	pci/g	UJ	0.179	81.81%
111312	Technetium-99	SWL-SS-12	0.354	pci/g	UJ	0.177	72.72%
111309	Technetium-99	SWL-SS-10	0.351	pci/g	UJ	0.1755	63.63%
111300	Technetium-99	SWL-SS-04	0.349	pci/g	UJ	0.1745	54.54%
111298	Technetium-99	SWL-SS-03	0.346	pci/g	UJ	0.173	45.45%
111304	Technetium-99	SWL-SS-07	0.337	pci/g	UJ	0.1685	36.36%
111293	Technetium-99	SWL-SS-01	0.335	pci/g	UJ	0.1675	27.27%
111297	Technetium-99	SWL-SS-02	0.334	pci/g	UJ	0.167	9.09%
111307	Technetium-99	SWL-SS-09	0.334	pci/g	UJ	0.167	9.09%
111301	Technetium-99	SWL-SS-05	0.327	pci/g	UJ	0.1635	0.00%

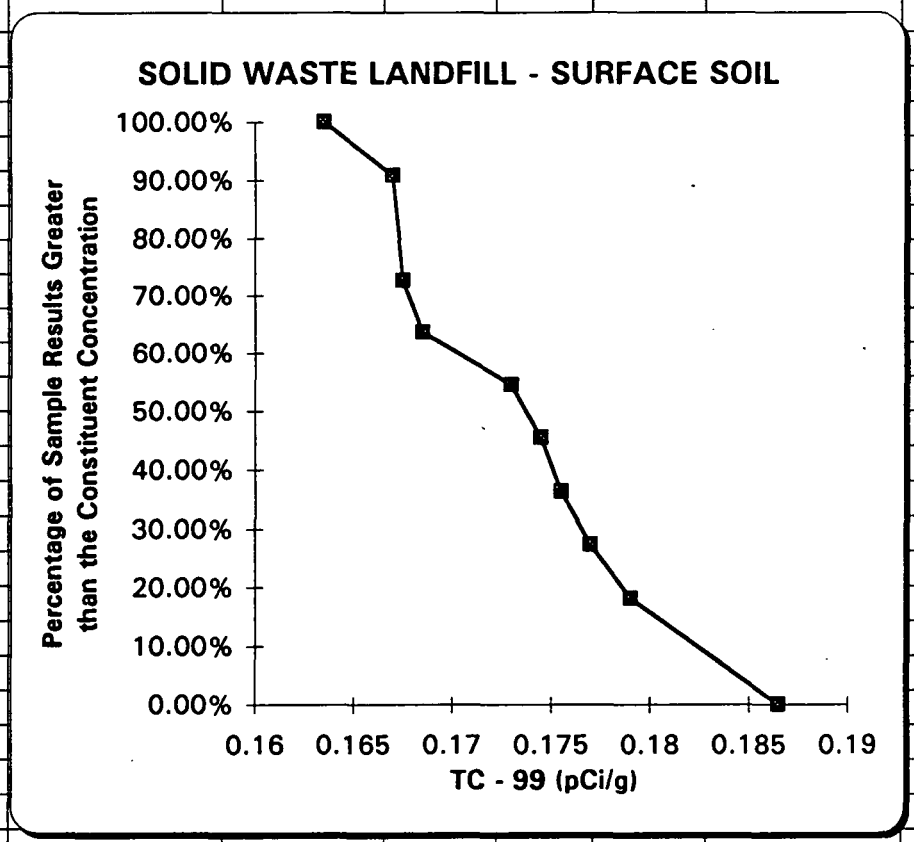

TABLE A.2-12
SOLID WASTE LANDFILL - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111300	Thorium-228	SWL-SS-04	2.33	pci/g	-	2.33	100.00%
111301	Thorium-228	SWL-SS-05	1.41	pci/g	-	1.41	87.50%
111492	Thorium-228	SWL-SS-08	1.21	pci/g	J	1.21	75.00%
111298	Thorium-228	SWL-SS-03	1.14	pci/g	-	1.14	62.50%
111297	Thorium-228	SWL-SS-02	1.08	pci/g	-	1.08	37.50%
111307	Thorium-228	SWL-SS-09	1.08	pci/g	-	1.08	37.50%
111293	Thorium-228	SWL-SS-01	0.814	pci/g	-	0.814	25.00%
111303	Thorium-228	SWL-SS-06	0.79	pci/g	-	0.79	12.50%
111304	Thorium-228	SWL-SS-07	0.482	pci/g	J	0.482	0.00%

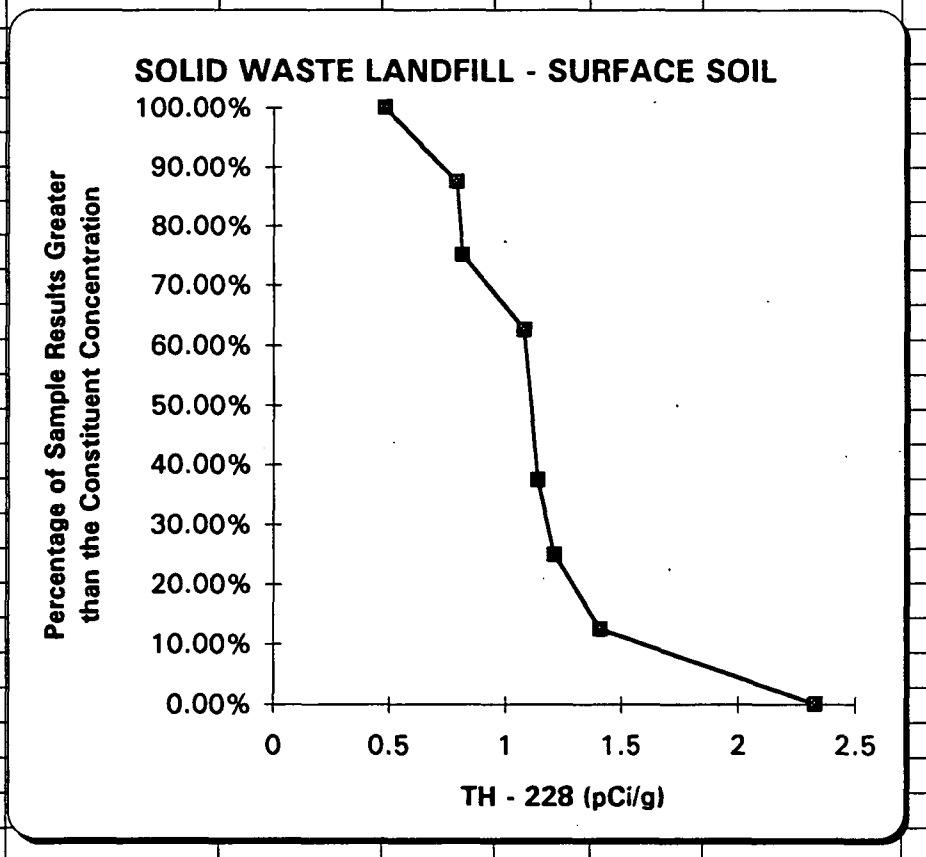

TABLE A.2-12
SOLID WASTE LANDFILL - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111301	Thorium-230	SWL-SS-05	9.61	pci/g	-	9.61	100.00%
111307	Thorium-230	SWL-SS-09	3.88	pci/g	-	3.88	87.50%
111297	Thorium-230	SWL-SS-02	3.74	pci/g	-	3.74	75.00%
111298	Thorium-230	SWL-SS-03	3.24	pci/g	-	3.24	62.50%
111492	Thorium-230	SWL-SS-08	3.13	pci/g	J	3.13	50.00%
111293	Thorium-230	SWL-SS-01	2.21	pci/g	-	2.21	37.50%
111300	Thorium-230	SWL-SS-04	2.14	pci/g	-	2.14	25.00%
111303	Thorium-230	SWL-SS-06	1.19	pci/g	-	1.19	12.50%
111304	Thorium-230	SWL-SS-07	0.939	pci/g	-	0.939	0.00%

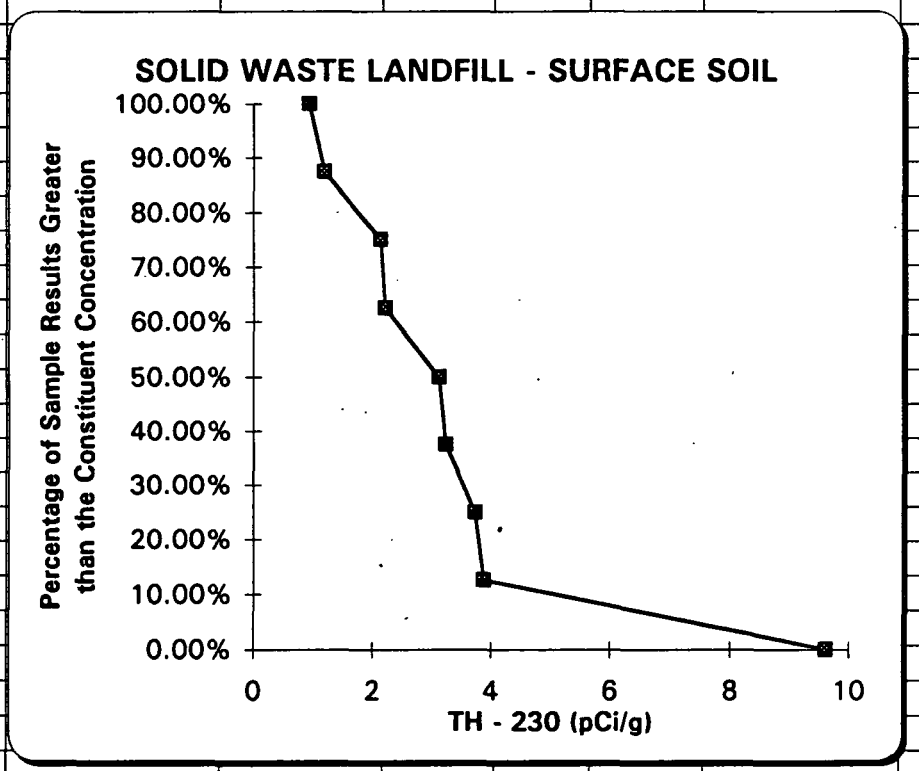

TABLE A.2-12
SOLID WASTE LANDFILL - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111300	Thorium-232	SWL-SS-04	2.5	pci/g	-	2.5	100.00%
111301	Thorium-232	SWL-SS-05	1.25	pci/g	-	1.25	87.50%
111307	Thorium-232	SWL-SS-09	1.07	pci/g	-	1.07	75.00%
111298	Thorium-232	SWL-SS-03	1.04	pci/g	-	1.04	50.00%
111492	Thorium-232	SWL-SS-08	1.04	pci/g	J	1.04	50.00%
111297	Thorium-232	SWL-SS-02	0.981	pci/g	-	0.981	37.50%
111293	Thorium-232	SWL-SS-01	0.787	pci/g	-	0.787	25.00%
111303	Thorium-232	SWL-SS-06	0.742	pci/g	-	0.742	12.50%
111304	Thorium-232	SWL-SS-07	0.601	pci/g	-	0.601	0.00%

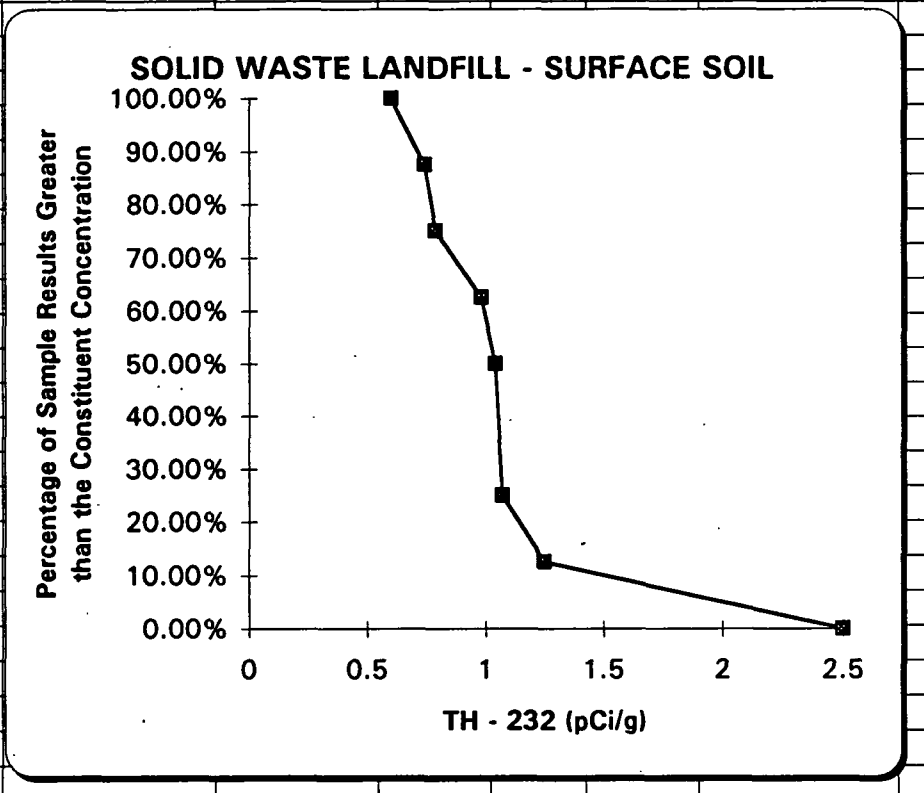

TABLE A.2-12
SOLID WASTE LANDFILL - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111298	Uranium, Total	SWL-SS-03	194	mg/kg	-	194	100.00%
111301	Uranium, Total	SWL-SS-05	143	mg/kg	-	143	90.90%
111297	Uranium, Total	SWL-SS-02	114	mg/kg	-	114	81.81%
111492	Uranium, Total	SWL-SS-08	97	mg/kg	-	97	72.72%
111300	Uranium, Total	SWL-SS-04	90.8	mg/kg	-	90.8	63.63%
111293	Uranium, Total	SWL-SS-01	39.8	mg/kg	-	39.8	54.54%
111307	Uranium, Total	SWL-SS-09	27.5	mg/kg	J	27.5	45.45%
111310	Uranium, Total	SWL-SS-11	19.5	mg/kg	J	19.5	36.36%
111312	Uranium, Total	SWL-SS-12	18.7	mg/kg	-	18.7	27.27%
111309	Uranium, Total	SWL-SS-10	10.5	mg/kg	J	10.5	18.18%
111303	Uranium, Total	SWL-SS-06	9.77	mg/kg	J	9.77	9.09%
111304	Uranium, Total	SWL-SS-07	6.86	mg/kg	J	6.86	0.00%

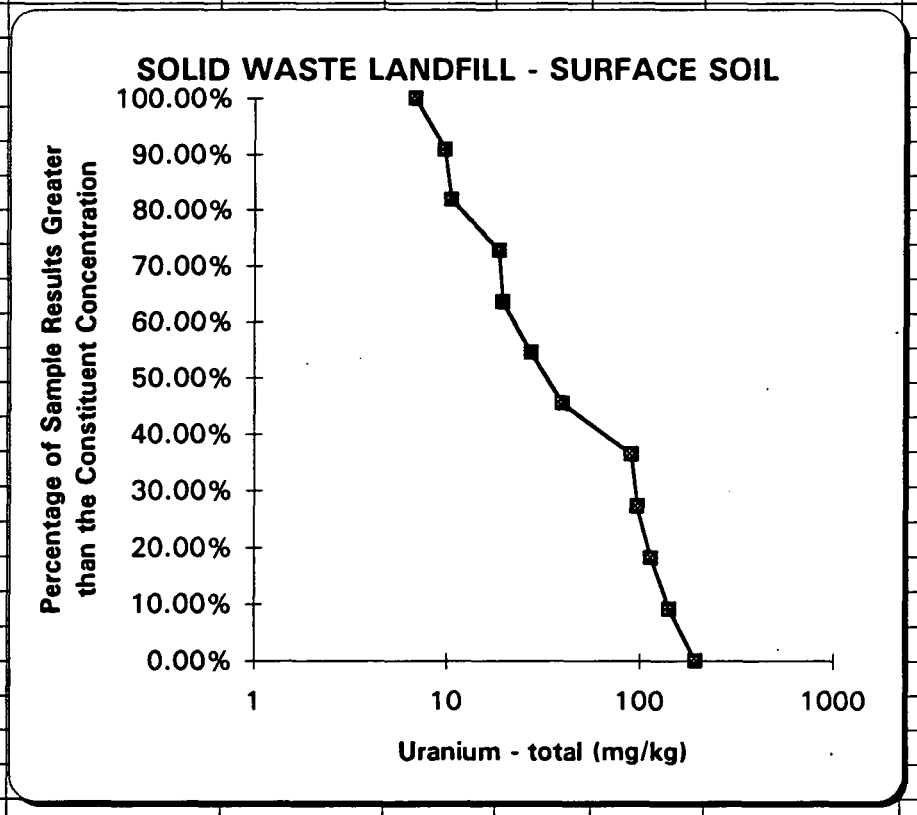

TABLE A.2-12
SOLID WASTE LANDFILL - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111301	Uranium-234	SWL-SS-05	48.9	pci/g	-	48.9	100.00%
111298	Uranium-234	SWL-SS-03	33.1	pci/g	-	33.1	90.90%
111300	Uranium-234	SWL-SS-04	22.2	pci/g	-	22.2	81.81%
111297	Uranium-234	SWL-SS-02	13.5	pci/g	-	13.5	72.72%
111492	Uranium-234	SWL-SS-08	12.4	pci/g	-	12.4	63.63%
111307	Uranium-234	SWL-SS-09	6.7	pci/g	-	6.7	54.54%
111293	Uranium-234	SWL-SS-01	5.94	pci/g	-	5.94	45.45%
111312	Uranium-234	SWL-SS-12	5.46	pci/g	-	5.46	36.36%
111310	Uranium-234	SWL-SS-11	4.97	pci/g	-	4.97	27.27%
111309	Uranium-234	SWL-SS-10	2.28	pci/g	-	2.28	18.18%
111303	Uranium-234	SWL-SS-06	1.83	pci/g	-	1.83	9.09%
111304	Uranium-234	SWL-SS-07	1.43	pci/g	-	1.43	0.00%

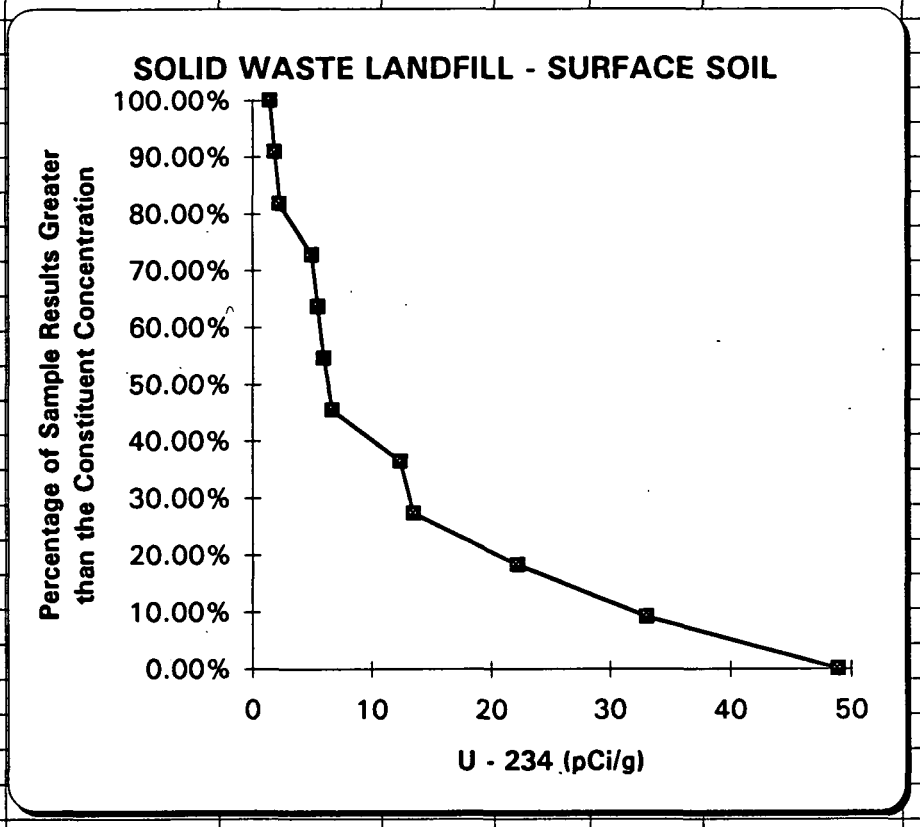

TABLE A.2-12
SOLID WASTE LANDFILL - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111301	Uranium-235/236	SWL-SS-05	3.33	pci/g	-	3.33	100.00%
111298	Uranium-235/236	SWL-SS-03	1.92	pci/g	-	1.92	90.90%
111300	Uranium-235/236	SWL-SS-04	1.26	pci/g	-	1.26	81.81%
111297	Uranium-235/236	SWL-SS-02	0.816	pci/g	-	0.816	72.72%
111492	Uranium-235/236	SWL-SS-08	0.809	pci/g	-	0.809	63.63%
111293	Uranium-235/236	SWL-SS-01	0.512	pci/g	J	0.512	54.54%
111307	Uranium-235/236	SWL-SS-09	0.398	pci/g	J	0.398	45.45%
111312	Uranium-235/236	SWL-SS-12	0.346	pci/g	J	0.346	36.36%
111310	Uranium-235/236	SWL-SS-11	0.288	pci/g	-	0.288	27.27%
111303	Uranium-235/236	SWL-SS-06	0.12	pci/g	J	0.12	9.09%
111309	Uranium-235/236	SWL-SS-10	0.12	pci/g	J	0.12	9.09%
111304	Uranium-235/236	SWL-SS-07	0.0764	pci/g	J	0.0764	0.00%

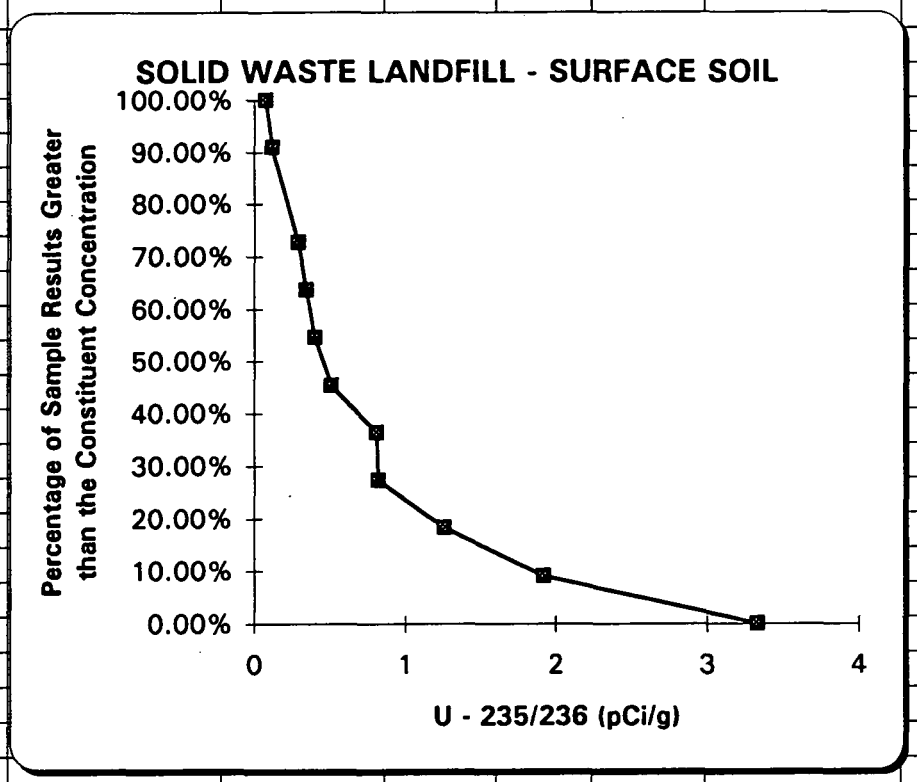

TABLE A.2-12
SOLID WASTE LANDFILL - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111298	Uranium-238	SWL-SS-03	63.8	pci/g	-	63.8	100.00%
111301	Uranium-238	SWL-SS-05	49.4	pci/g	-	49.4	90.90%
111297	Uranium-238	SWL-SS-02	34.6	pci/g	-	34.6	81.81%
111300	Uranium-238	SWL-SS-04	29.4	pci/g	-	29.4	72.72%
111492	Uranium-238	SWL-SS-08	26.9	pci/g	-	26.9	63.63%
111293	Uranium-238	SWL-SS-01	13.6	pci/g	-	13.6	54.54%
111307	Uranium-238	SWL-SS-09	8.21	pci/g	-	8.21	45.45%
111310	Uranium-238	SWL-SS-11	6.68	pci/g	-	6.68	36.36%
111312	Uranium-238	SWL-SS-12	5.58	pci/g	-	5.58	27.27%
111309	Uranium-238	SWL-SS-10	2.9	pci/g	-	2.9	18.18%
111303	Uranium-238	SWL-SS-06	2.43	pci/g	-	2.43	9.09%
111304	Uranium-238	SWL-SS-07	2.34	pci/g	-	2.34	0.00%

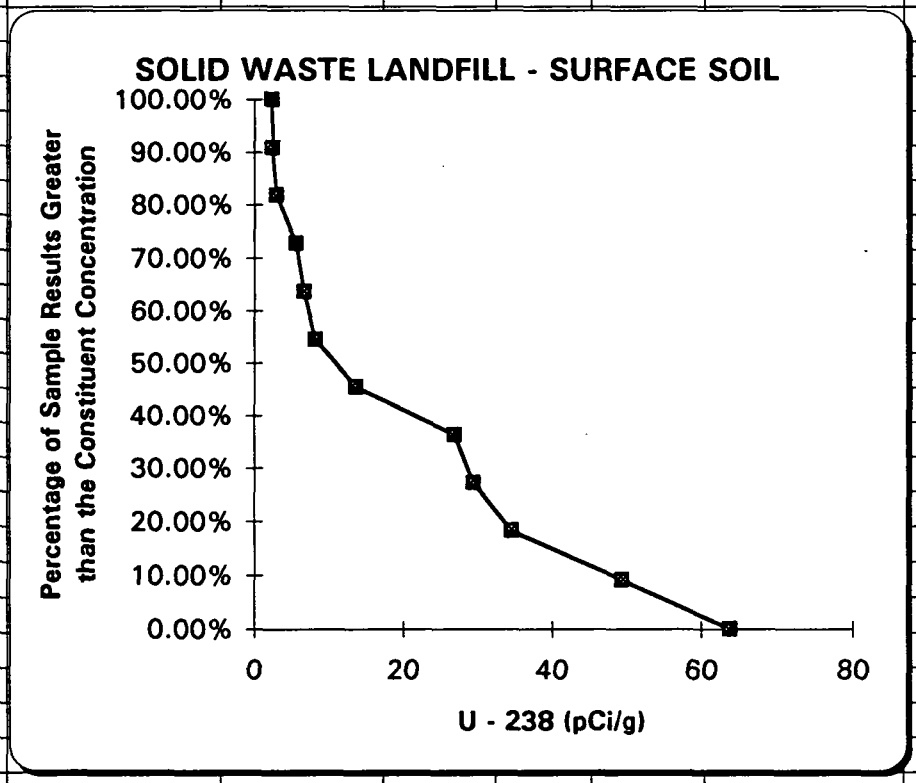

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067312	Arsenic	1720	15.4	mg/kg	-	15.4	100.00%
115319	Arsenic	1991	13.9	mg/kg	-	13.9	97.43%
067717	Arsenic	1888	12.5	mg/kg	-	12.5	94.87%
067714	Arsenic	1888	9.9	mg/kg	-	9.9	92.30%
115343	Arsenic	1992	8.9	mg/kg	-	8.9	89.74%
111301	Arsenic	SWL-SS-05	8.3	mg/kg	-	8.3	87.17%
115376	Arsenic	11038	8.1	mg/kg	-	8.1	84.61%
115339	Arsenic	1993	8	mg/kg	-	8	79.48%
115357	Arsenic	1987	8	mg/kg	-	8	79.48%
111484	Arsenic	1982	7.5	mg/kg	-	7.5	76.92%
111452	Arsenic	1986	7.4	mg/kg	J	7.4	74.35%
111307	Arsenic	SWL-SS-09	7	mg/kg	-	7	71.79%
067307	Arsenic	1720	6.8	mg/kg	-	6.8	69.23%
111297	Arsenic	SWL-SS-02	6.7	mg/kg	-	6.7	64.10%
115329	Arsenic	1990	6.7	mg/kg	-	6.7	64.10%
111293	Arsenic	SWL-SS-01	6.6	mg/kg	-	6.6	61.53%
111298	Arsenic	SWL-SS-03	6.4	mg/kg	-	6.4	58.97%
111492	Arsenic	SWL-SS-08	6.3	mg/kg	J	6.3	56.41%
111300	Arsenic	SWL-SS-04	6.1	mg/kg	-	6.1	51.28%
115350	Arsenic	1988	6.1	mg/kg	-	6.1	51.28%
111303	Arsenic	SWL-SS-06	6	mg/kg	-	6	48.71%
067311	Arsenic	1720	5.9	mg/kg	-	5.9	38.46%
115392	Arsenic	11040	5.9	mg/kg	-	5.9	38.46%
111441	Arsenic	1985	5.9	mg/kg	J	5.9	38.46%
111476	Arsenic	1983	5.9	mg/kg	J	5.9	38.46%
111310	Arsenic	SWL-SS-11	5.5	mg/kg	-	5.5	33.33%
115381	Arsenic	11036	5.5	mg/kg	J	5.5	33.33%
111304	Arsenic	SWL-SS-07	5.4	mg/kg	-	5.4	25.64%
115362	Arsenic	1989	5.4	mg/kg	-	5.4	25.64%
111477	Arsenic	1983	5.4	mg/kg	J	5.4	25.64%
067396	Arsenic	1808	5.3	mg/kg	-	5.3	23.07%
111466	Arsenic	1984	5.1	mg/kg	J	5.1	20.51%
067394	Arsenic	1808	5	mg/kg	-	5	15.38%
111309	Arsenic	SWL-SS-10	5	mg/kg	-	5	15.38%
115371	Arsenic	11037	4.9	mg/kg	-	4.9	12.82%
115389	Arsenic	11041	4.6	mg/kg	-	4.6	10.25%
111312	Arsenic	SWL-SS-12	4.4	mg/kg	-	4.4	5.12%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067287	Arsenic	1719	4.4	mg/kg	J	4.4	5.12%
115384	Arsenic	11039	3.5	mg/kg	-	3.5	2.56%
067250	Arsenic	1722	3.3	mg/kg	-	3.3	0.00%

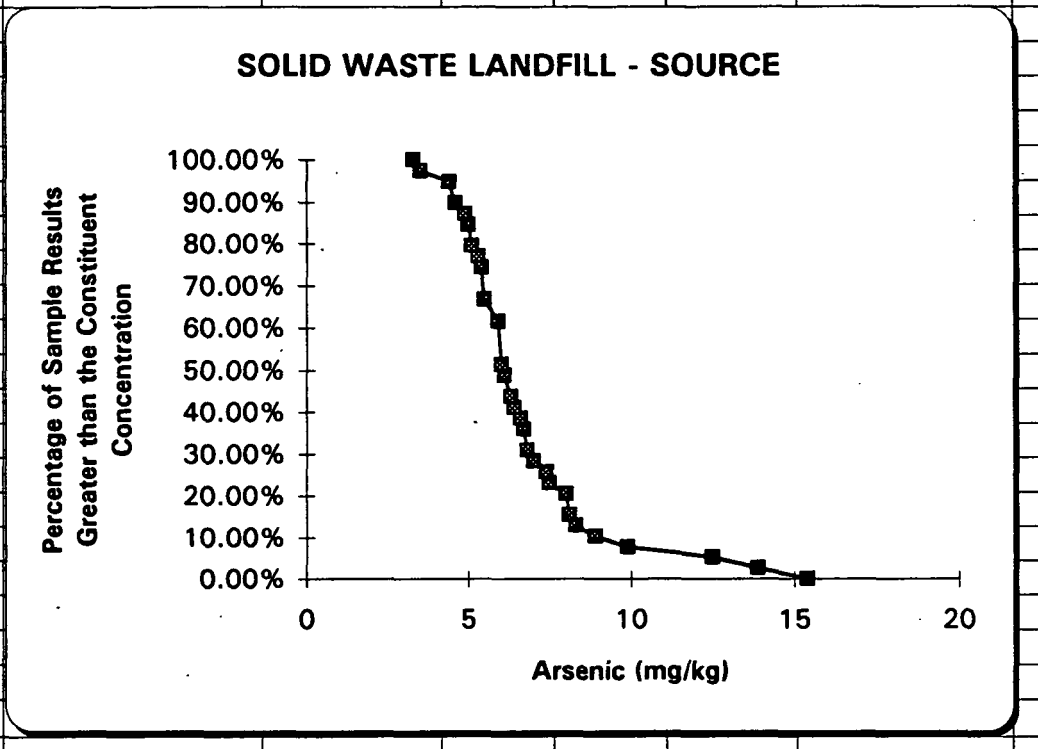

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
67714	Antimony	1888	22	mg/kg	J	22	100.00%
67311	Antimony	1720	16.4	mg/kg	J	16.4	97.10%
67717	Antimony	1888	14.8	mg/kg	J	14.8	94.20%
67312	Antimony	1720	11.9	mg/kg	J	11.9	91.40%
67394	Antimony	1808	10.6	mg/kg	J	10.6	88.50%
67396	Antimony	1808	10.4	mg/kg	J	10.4	85.70%
67287	Antimony	1719	4.2	mg/kg	-	4.2	82.80%
67307	Antimony	1720	7.1	mg/kg	UJ	3.55	80.00%
67250	Antimony	1722	6.6	mg/kg	UJ	3.3	77.10%
115357	Antimony	1987	1.9	mg/kg	UJ	0.95	74.20%
115350	Antimony	1988	1.4	mg/kg	UJ	0.7	71.40%
115343	Antimony	1992	1.3	mg/kg	UJ	0.65	68.50%
111293	Antimony	SWL-SS-01	1.2	mg/kg	UJ	0.6	60.00%
111301	Antimony	SWL-SS-05	1.2	mg/kg	UJ	0.6	60.00%
111307	Antimony	SWL-SS-09	1.2	mg/kg	UJ	0.6	60.00%
111304	Antimony	SWL-SS-07	1.1	mg/kg	UJ	0.55	48.50%
111309	Antimony	SWL-SS-10	1.1	mg/kg	UJ	0.55	48.50%
115371	Antimony	11037	1.1	mg/kg	UJ	0.55	48.50%
115392	Antimony	11040	1.1	mg/kg	UJ	0.55	48.50%
111310	Antimony	SWL-SS-11	1	mg/kg	UJ	0.5	42.80%
115384	Antimony	11039	1	mg/kg	UJ	0.5	42.80%
111300	Antimony	SWL-SS-04	0.96	mg/kg	UJ	0.48	37.10%
115329	Antimony	1990	0.96	mg/kg	UJ	0.48	37.10%
111298	Antimony	SWL-SS-03	0.93	mg/kg	UJ	0.465	34.20%
111297	Antimony	SWL-SS-02	0.9	mg/kg	UJ	0.45	31.40%
111492	Antimony	SWL-SS-08	0.89	mg/kg	UJ	0.445	25.70%
115376	Antimony	11038	0.89	mg/kg	UJ	0.445	25.70%
115381	Antimony	11036	0.87	mg/kg	UJ	0.435	22.80%
111312	Antimony	SWL-SS-12	0.85	mg/kg	UJ	0.425	17.10%
115362	Antimony	1989	0.85	mg/kg	UJ	0.425	17.10%
111303	Antimony	SWL-SS-06	0.84	mg/kg	UJ	0.42	14.20%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115389	Antimony	11041	0.8	mg/kg	UJ	0.4	11.40%
115339	Antimony	1993	0.63	mg/kg	UJ	0.315	8.50%
111466	Antimony	1984	0.53	mg/kg	UJ	0.265	5.70%
115319	Antimony	1991	0.45	mg/kg	UJ	0.225	2.80%
111484	Antimony	1982	0.22	mg/kg	UJ	0.11	.00%

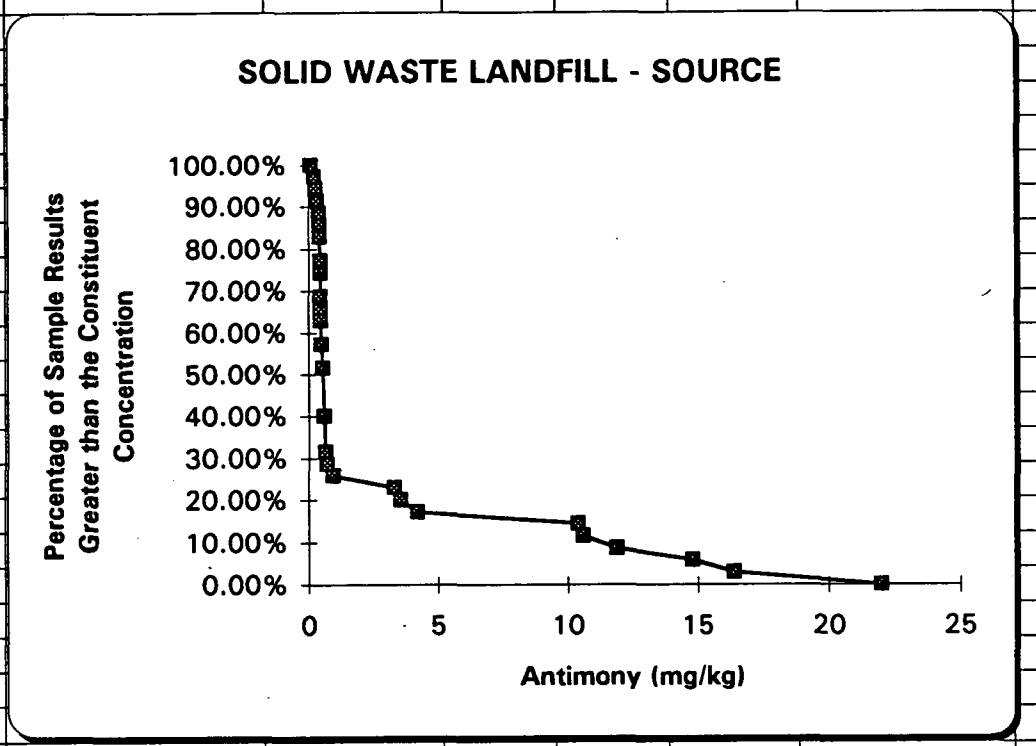

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115384	Benzo(a)anthracene	11039	310000	ug/kg	-	310000	100.00%
115389	Benzo(a)anthracene	11041	18000	ug/kg	-	18000	97.40%
67287	Benzo(a)anthracene	1719	7500	ug/kg	-	7500	94.80%
67396	Benzo(a)anthracene	1808	1100	ug/kg	J	1100	89.70%
111441	Benzo(a)anthracene	1985	1100	ug/kg	J	1100	89.70%
67394	Benzo(a)anthracene	1808	910	ug/kg	J	910	87.10%
111293	Benzo(a)anthracene	SWL-SS-01	880	ug/kg	J	880	84.60%
115357	Benzo(a)anthracene	1987	730	ug/kg	-	730	82.00%
67396	Benzo(a)anthracene	1808	600	ug/kg	J	600	79.40%
115339	Benzo(a)anthracene	1993	570	ug/kg	-	570	76.90%
115319	Benzo(a)anthracene	1991	560	ug/kg	-	560	74.30%
111452	Benzo(a)anthracene	1986	490	ug/kg	J	490	71.70%
115329	Benzo(a)anthracene	1990	460	ug/kg	-	460	69.20%
115343	Benzo(a)anthracene	1992	380	ug/kg	J	380	66.60%
115392	Benzo(a)anthracene	11040	350	ug/kg	J	350	64.10%
115376	Benzo(a)anthracene	11038	300	ug/kg	J	300	61.50%
115381	Benzo(a)anthracene	11036	280	ug/kg	J	280	58.90%
111307	Benzo(a)anthracene	SWL-SS-09	460	ug/kg	UJ	230	56.40%
111303	Benzo(a)anthracene	SWL-SS-06	220	ug/kg	J	220	51.20%
115350	Benzo(a)anthracene	1988	440	ug/kg	U	220	51.20%
111309	Benzo(a)anthracene	SWL-SS-10	420	ug/kg	UJ	210	48.70%
67717	Benzo(a)anthracene	1888	410	ug/kg	U	205	41.00%
111297	Benzo(a)anthracene	SWL-SS-02	410	ug/kg	UJ	205	41.00%
111312	Benzo(a)anthracene	SWL-SS-12	410	ug/kg	UJ	205	41.00%
111310	Benzo(a)anthracene	SWL-SS-11	400	ug/kg	UJ	200	38.40%
111304	Benzo(a)anthracene	SWL-SS-07	390	ug/kg	UJ	195	35.80%
67714	Benzo(a)anthracene	1888	380	ug/kg	U	190	33.30%
67250	Benzo(a)anthracene	1722	370	ug/kg	U	185	30.70%
111466	Benzo(a)anthracene	1984	360	ug/kg	U	180	28.20%
111484	Benzo(a)anthracene	1982	170	ug/kg	J	170	23.00%
115362	Benzo(a)anthracene	1989	170	ug/kg	J	170	23.00%
111300	Benzo(a)anthracene	SWL-SS-04	140	ug/kg	J	140	20.50%
67307	Benzo(a)anthracene	1720	130	ug/kg	J	130	17.90%
111298	Benzo(a)anthracene	SWL-SS-03	110	ug/kg	J	110	15.30%
111492	Benzo(a)anthracene	SWL-SS-08	79	ug/kg	J	79	12.80%
111477	Benzo(a)anthracene	1983	78	ug/kg	J	78	10.20%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111301	Benzo(a)anthracene	SWL-SS-05	55	ug/kg	J	55	7.60%
111476	Benzo(a)anthracene	1983	49	ug/kg	J	49	5.10%
115371	Benzo(a)anthracene	11037	48	ug/kg	J	48	2.50%
67311	Benzo(a)anthracene	1720	43	ug/kg	J	43	.00%

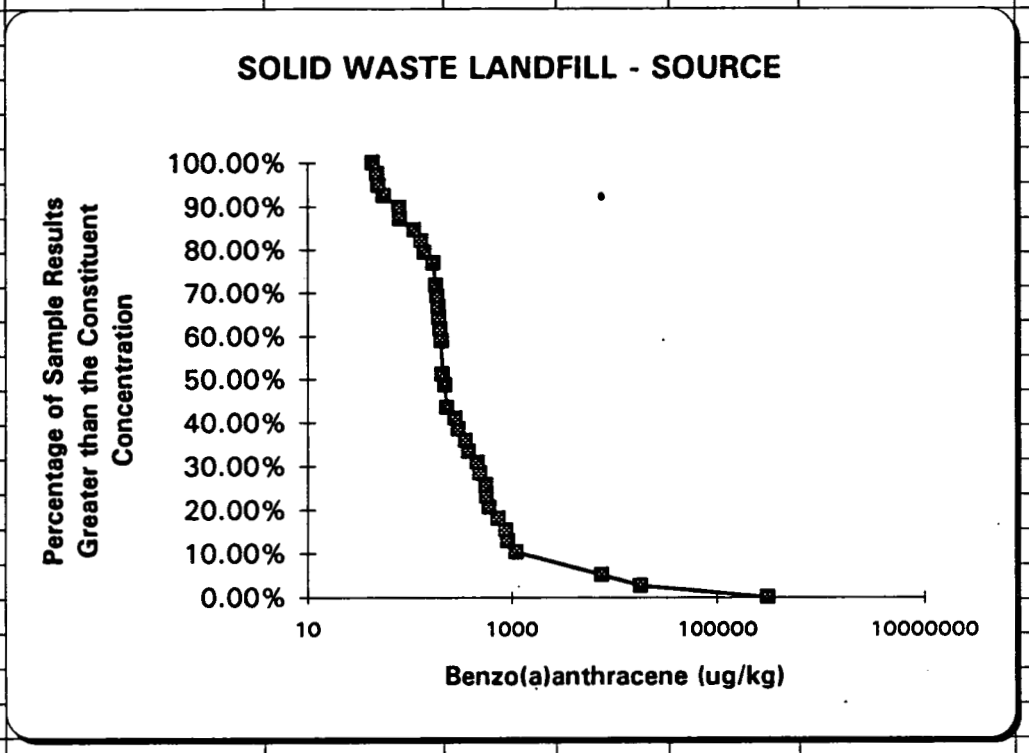

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115384	Benzo(a)pyrene	11039	260000	ug/kg	-	260000	100.00%
115389	Benzo(a)pyrene	11041	13000	ug/kg	-	13000	97.36%
067287	Benzo(a)pyrene	1719	8200	ug/kg	-	8200	94.73%
111441	Benzo(a)pyrene	1985	790	ug/kg	J	790	92.10%
111293	Benzo(a)pyrene	SWL-SS-01	760	ug/kg	J	760	89.47%
115357	Benzo(a)pyrene	1987	700	ug/kg	-	700	84.21%
067394	Benzo(a)pyrene	1808	700	ug/kg	J	700	84.21%
067396	Benzo(a)pyrene	1808	600	ug/kg	J	600	81.57%
115339	Benzo(a)pyrene	1993	510	ug/kg	-	510	76.31%
115343	Benzo(a)pyrene	1992	510	ug/kg	-	510	76.31%
115319	Benzo(a)pyrene	1991	470	ug/kg	-	470	73.68%
115329	Benzo(a)pyrene	1990	420	ug/kg	-	420	71.05%
111452	Benzo(a)pyrene	1986	320	ug/kg	J	320	65.78%
115392	Benzo(a)pyrene	11040	320	ug/kg	J	320	65.78%
115376	Benzo(a)pyrene	11038	300	ug/kg	J	300	63.15%
115381	Benzo(a)pyrene	11036	230	ug/kg	J	230	57.89%
111307	Benzo(a)pyrene	SWL-SS-09	460	ug/kg	UJ	230	57.89%
115350	Benzo(a)pyrene	1988	440	ug/kg	U	220	55.26%
111309	Benzo(a)pyrene	SWL-SS-10	420	ug/kg	UJ	210	52.63%
067311	Benzo(a)pyrene	1720	410	ug/kg	U	205	39.47%
067717	Benzo(a)pyrene	1888	410	ug/kg	U	205	39.47%
115371	Benzo(a)pyrene	11037	410	ug/kg	U	205	39.47%
111297	Benzo(a)pyrene	SWL-SS-02	410	ug/kg	UJ	205	39.47%
111312	Benzo(a)pyrene	SWL-SS-12	410	ug/kg	UJ	205	39.47%
111310	Benzo(a)pyrene	SWL-SS-11	400	ug/kg	UJ	200	36.84%
111304	Benzo(a)pyrene	SWL-SS-07	390	ug/kg	UJ	195	34.21%
111303	Benzo(a)pyrene	SWL-SS-06	190	ug/kg	J	190	28.94%
067714	Benzo(a)pyrene	1888	380	ug/kg	U	190	28.94%
067250	Benzo(a)pyrene	1722	370	ug/kg	U	185	26.31%
111466	Benzo(a)pyrene	1984	360	ug/kg	U	180	23.68%
111300	Benzo(a)pyrene	SWL-SS-04	140	ug/kg	J	140	21.05%
111484	Benzo(a)pyrene	1982	120	ug/kg	J	120	18.42%
111298	Benzo(a)pyrene	SWL-SS-03	110	ug/kg	J	110	13.15%
115362	Benzo(a)pyrene	1989	110	ug/kg	J	110	13.15%
067307	Benzo(a)pyrene	1720	69	ug/kg	J	69	10.52%
111492	Benzo(a)pyrene	SWL-SS-08	67	ug/kg	J	67	7.89%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111477	Benzo(a)pyrene	1983	64	ug/kg	J	64	5.26%
111301	Benzo(a)pyrene	SWL-SS-05	59	ug/kg	J	59	2.63%
111476	Benzo(a)pyrene	1983	47	ug/kg	J	47	0.00%

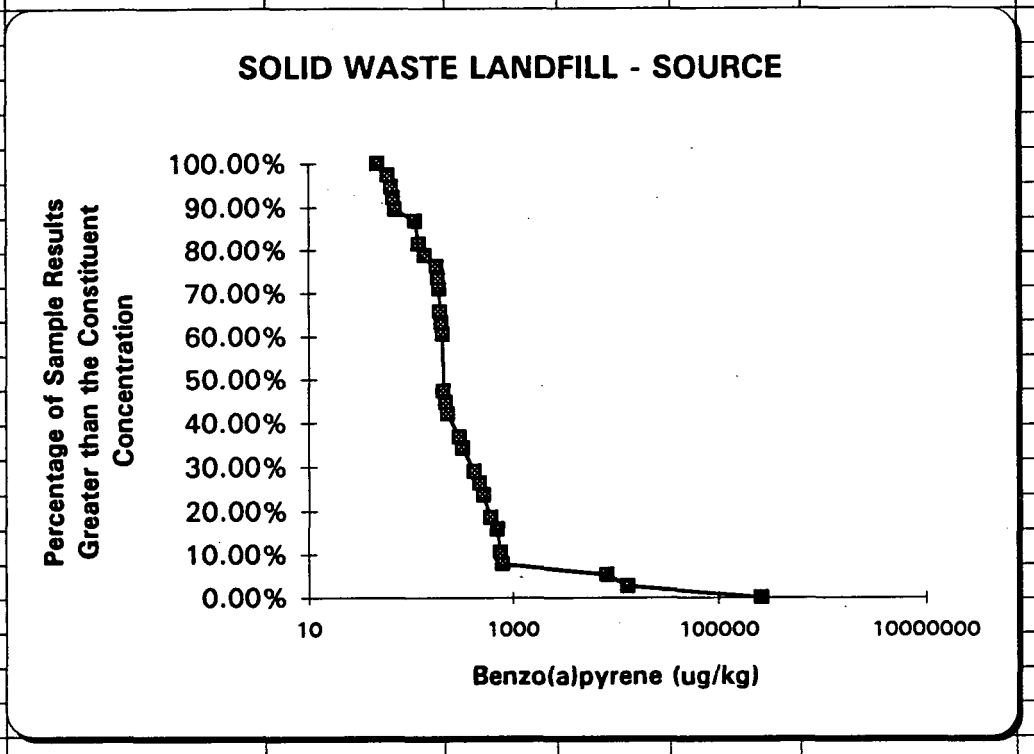

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115384	Benzo(b)fluoranthene	11039	220000	ug/kg	-	2.20E+05	100.00%
067287	Benzo(b)fluoranthene	1719	15000	ug/kg	-	1.50E+04	97.36%
115389	Benzo(b)fluoranthene	11041	3900	ug/kg	U	1.95E+03	94.73%
067394	Benzo(b)fluoranthene	1808	1500	ug/kg	J	1.50E+03	92.10%
115343	Benzo(b)fluoranthene	1992	1200	ug/kg	-	1.20E+03	89.47%
111441	Benzo(b)fluoranthene	1985	1100	ug/kg	J	1.10E+03	86.84%
115357	Benzo(b)fluoranthene	1987	910	ug/kg	-	9.10E+02	84.21%
111293	Benzo(b)fluoranthene	SWL-SS-01	710	ug/kg	J	7.10E+02	81.57%
115339	Benzo(b)fluoranthene	1993	630	ug/kg	-	6.30E+02	78.94%
067396	Benzo(b)fluoranthene	1808	560	ug/kg	J	5.60E+02	76.31%
115319	Benzo(b)fluoranthene	1991	540	ug/kg	-	5.40E+02	73.68%
115329	Benzo(b)fluoranthene	1990	530	ug/kg	-	5.30E+02	71.05%
111452	Benzo(b)fluoranthene	1986	480	ug/kg	J	4.80E+02	68.42%
115381	Benzo(b)fluoranthene	11036	340	ug/kg	J	3.40E+02	65.78%
115376	Benzo(b)fluoranthene	11038	300	ug/kg	J	3.00E+02	63.15%
115392	Benzo(b)fluoranthene	11040	290	ug/kg	J	2.90E+02	60.52%
111307	Benzo(b)fluoranthene	SWL-SS-09	460	ug/kg	UJ	2.30E+02	57.89%
115362	Benzo(b)fluoranthene	1989	220	ug/kg	J	2.20E+02	52.63%
115350	Benzo(b)fluoranthene	1988	440	ug/kg	U	2.20E+02	52.63%
111309	Benzo(b)fluoranthene	SWL-SS-10	420	ug/kg	UJ	2.10E+02	50.00%
067717	Benzo(b)fluoranthene	1888	410	ug/kg	U	2.05E+02	39.47%
111297	Benzo(b)fluoranthene	SWL-SS-02	410	ug/kg	UJ	2.05E+02	39.47%
111301	Benzo(b)fluoranthene	SWL-SS-05	410	ug/kg	UJ	2.05E+02	39.47%
111312	Benzo(b)fluoranthene	SWL-SS-12	410	ug/kg	UJ	2.05E+02	39.47%
111310	Benzo(b)fluoranthene	SWL-SS-11	400	ug/kg	UJ	2.00E+02	36.84%
111304	Benzo(b)fluoranthene	SWL-SS-07	390	ug/kg	UJ	1.95E+02	34.21%
067307	Benzo(b)fluoranthene	1720	190	ug/kg	J	1.90E+02	28.94%
067714	Benzo(b)fluoranthene	1888	380	ug/kg	U	1.90E+02	28.94%
067250	Benzo(b)fluoranthene	1722	370	ug/kg	U	1.85E+02	26.31%
111484	Benzo(b)fluoranthene	1982	180	ug/kg	J	1.80E+02	21.05%
111466	Benzo(b)fluoranthene	1984	360	ug/kg	U	1.80E+02	21.05%
111303	Benzo(b)fluoranthene	SWL-SS-06	150	ug/kg	J	1.50E+02	18.42%
111300	Benzo(b)fluoranthene	SWL-SS-04	140	ug/kg	J	1.40E+02	15.78%
111298	Benzo(b)fluoranthene	SWL-SS-03	96	ug/kg	J	9.60E+01	13.15%
115371	Benzo(b)fluoranthene	11037	67	ug/kg	J	6.70E+01	10.52%
111477	Benzo(b)fluoranthene	1983	66	ug/kg	J	6.60E+01	7.89%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111492	Benzo(b)fluoranthene	SWL-SS-08	64	ug/kg	J	6.40E+01	5.26%
067311	Benzo(b)fluoranthene	1720	54	ug/kg	J	5.40E+01	2.63%
111476	Benzo(b)fluoranthene	1983	49	ug/kg	J	4.90E+01	0.00%

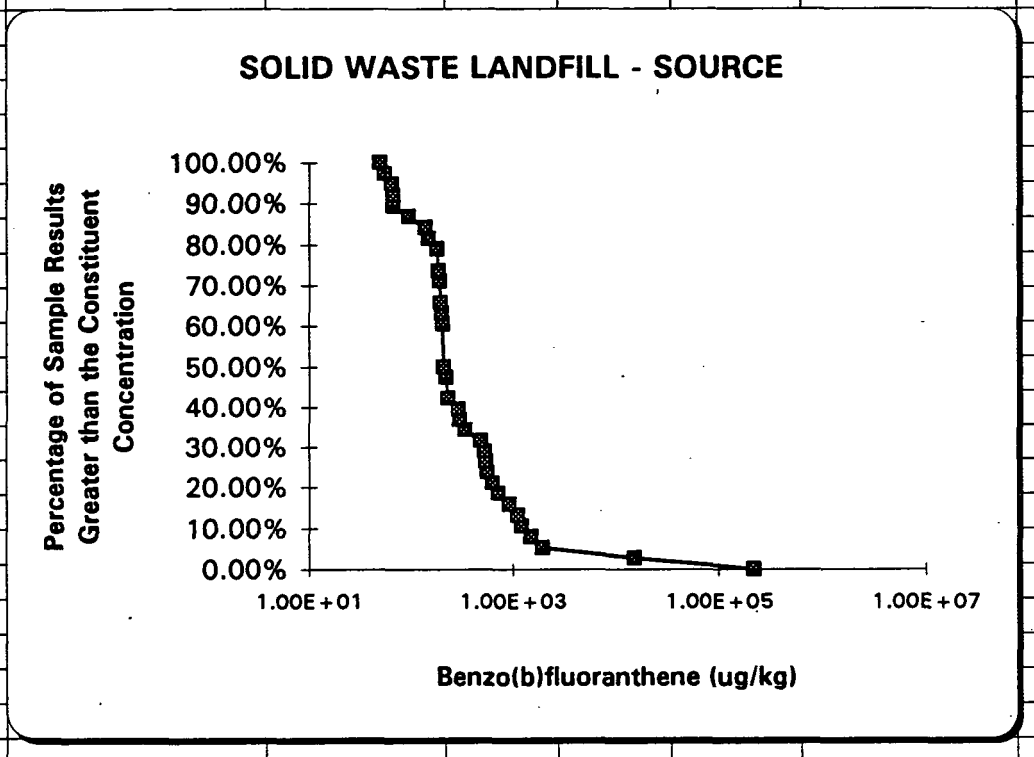

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111477	Beryllium	1983	1.8	mg/kg	-	1.8	100.00%
111476	Beryllium	1983	1.7	mg/kg	-	1.7	97.43%
067714	Beryllium	1888	1.6	mg/kg	-	1.6	89.74%
067717	Beryllium	1888	1.6	mg/kg	-	1.6	89.74%
111452	Beryllium	1986	1.6	mg/kg	-	1.6	89.74%
115343	Beryllium	1992	1.5	mg/kg	-	1.5	84.61%
115350	Beryllium	1988	1.5	mg/kg	-	1.5	84.61%
115329	Beryllium	1990	1.4	mg/kg	-	1.4	82.05%
111441	Beryllium	1985	1.3	mg/kg	-	1.3	74.35%
111466	Beryllium	1984	1.3	mg/kg	-	1.3	74.35%
115357	Beryllium	1987	1.3	mg/kg	-	1.3	74.35%
067307	Beryllium	1720	0.99	mg/kg	-	0.99	71.79%
111309	Beryllium	SWL-SS-10	0.97	mg/kg	-	0.97	69.23%
111484	Beryllium	1982	0.96	mg/kg	-	0.96	66.66%
067312	Beryllium	1720	0.95	mg/kg	-	0.95	64.10%
067396	Beryllium	1808	0.88	mg/kg	-	0.88	61.53%
111307	Beryllium	SWL-SS-09	0.85	mg/kg	-	0.85	58.97%
067311	Beryllium	1720	0.84	mg/kg	-	0.84	56.41%
115371	Beryllium	11037	0.73	mg/kg	-	0.73	53.84%
111300	Beryllium	SWL-SS-04	0.72	mg/kg	-	0.72	48.71%
115339	Beryllium	1993	0.72	mg/kg	-	0.72	48.71%
067394	Beryllium	1808	0.71	mg/kg	-	0.71	46.15%
115319	Beryllium	1991	0.69	mg/kg	-	0.69	41.02%
115392	Beryllium	11040	0.69	mg/kg	-	0.69	41.02%
111312	Beryllium	SWL-SS-12	0.63	mg/kg	-	0.63	38.46%
067250	Beryllium	1722	0.59	mg/kg	-	0.59	35.89%
111301	Beryllium	SWL-SS-05	0.58	mg/kg	-	0.58	33.33%
111303	Beryllium	SWL-SS-06	0.57	mg/kg	-	0.57	30.76%
111297	Beryllium	SWL-SS-02	0.55	mg/kg	-	0.55	28.20%
111293	Beryllium	SWL-SS-01	0.53	mg/kg	-	0.53	25.64%
111304	Beryllium	SWL-SS-07	0.51	mg/kg	-	0.51	23.07%
111298	Beryllium	SWL-SS-03	0.48	mg/kg	-	0.48	20.51%
111310	Beryllium	SWL-SS-11	0.46	mg/kg	-	0.46	15.38%
111492	Beryllium	SWL-SS-08	0.46	mg/kg	-	0.46	15.38%
115381	Beryllium	11036	0.43	mg/kg	-	0.43	12.82%
115362	Beryllium	1989	0.4	mg/kg	-	0.4	10.25%
115389	Beryllium	11041	0.37	mg/kg	-	0.37	7.69%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115384	Beryllium	11039	0.41	mg/kg	U	0.205	5.12%
067287	Beryllium	1719	0.19	mg/kg	J	0.19	2.56%
115376	Beryllium	11038	0.36	mg/kg	U	0.18	0.00%

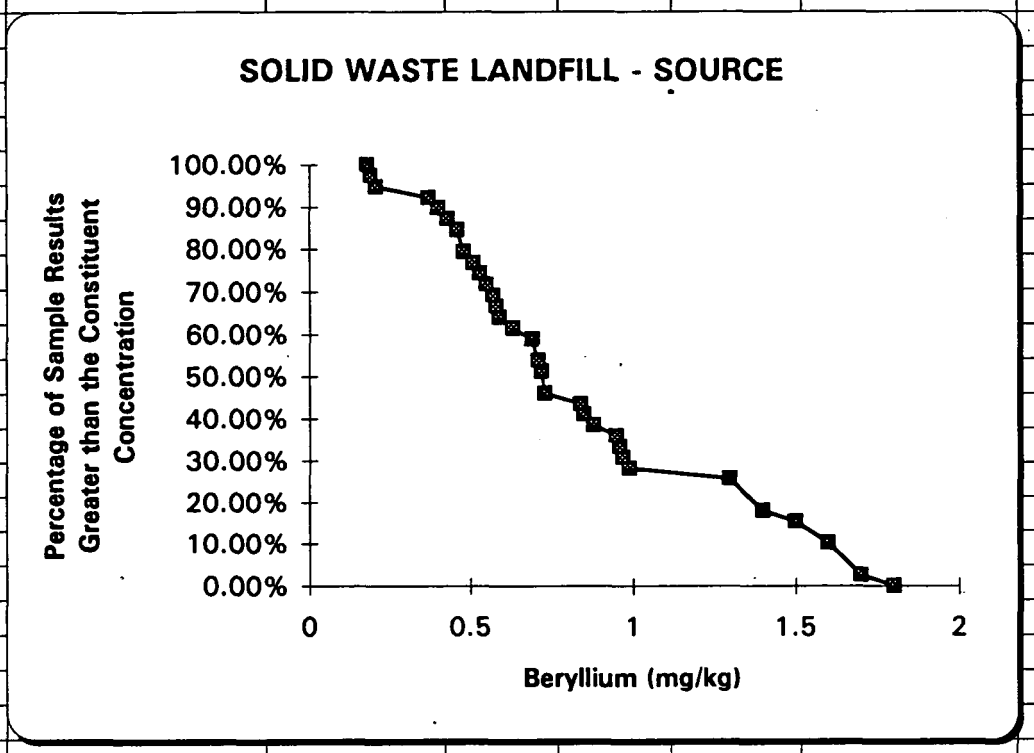

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115384	Carbazole	11039	89000	ug/kg	-	89000	100.00%
115389	Carbazole	11041	4200	ug/kg	-	4200	96.66%
115381	Carbazole	11036	760	ug/kg	UJ	380	93.33%
115357	Carbazole	1987	240	ug/kg	J	240	90.00%
111300	Carbazole	SWL-SS-04	460	ug/kg	UJ	230	83.33%
111307	Carbazole	SWL-SS-09	460	ug/kg	UJ	230	83.33%
115350	Carbazole	1988	440	ug/kg	U	220	80.00%
111309	Carbazole	SWL-SS-10	420	ug/kg	UJ	210	76.66%
115371	Carbazole	11037	410	ug/kg	U	205	60.00%
111297	Carbazole	SWL-SS-02	410	ug/kg	UJ	205	60.00%
111301	Carbazole	SWL-SS-05	410	ug/kg	UJ	205	60.00%
111303	Carbazole	SWL-SS-06	410	ug/kg	UJ	205	60.00%
111312	Carbazole	SWL-SS-12	410	ug/kg	UJ	205	60.00%
115339	Carbazole	1993	200	ug/kg	J	200	43.33%
111476	Carbazole	1983	400	ug/kg	U	200	43.33%
111492	Carbazole	SWL-SS-08	400	ug/kg	U	200	43.33%
115362	Carbazole	1989	400	ug/kg	U	200	43.33%
111310	Carbazole	SWL-SS-11	400	ug/kg	UJ	200	43.33%
111477	Carbazole	1983	390	ug/kg	U	195	30.00%
111484	Carbazole	1982	390	ug/kg	U	195	30.00%
111298	Carbazole	SWL-SS-03	390	ug/kg	UJ	195	30.00%
111304	Carbazole	SWL-SS-07	390	ug/kg	UJ	195	30.00%
115376	Carbazole	11038	380	ug/kg	U	190	26.66%
115329	Carbazole	1990	180	ug/kg	J	180	20.00%
111466	Carbazole	1984	360	ug/kg	U	180	20.00%
115319	Carbazole	1991	98	ug/kg	J	98	16.66%
111293	Carbazole	SWL-SS-01	77	ug/kg	J	77	13.33%
111452	Carbazole	1986	68	ug/kg	J	68	10.00%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111441	Carbazole	1985	67	ug/kg	J	67	6.66%
115343	Carbazole	1992	62	ug/kg	J	62	3.33%
115392	Carbazole	11040	58	ug/kg	J	58	0.00%

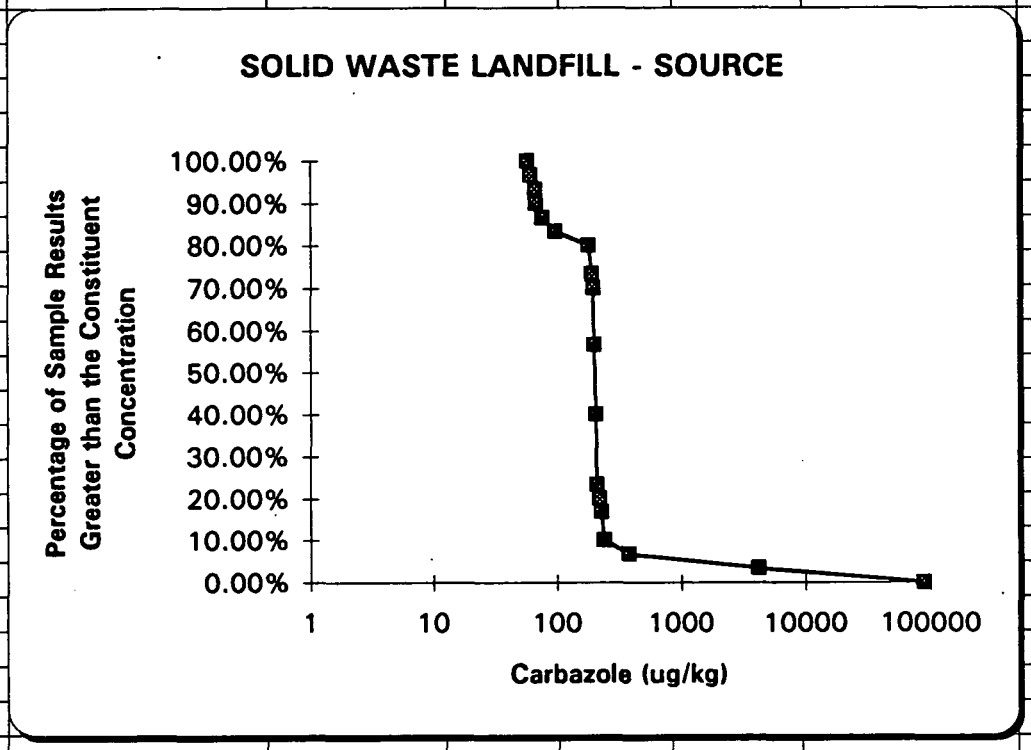

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115384	Dibenzo(a,h)anthracene	11039	79000	ug/kg	-	79000	100.00%
115389	Dibenzo(a,h)anthracene	11041	3000	ug/kg	J	3000	97.29%
115381	Dibenzo(a,h)anthracene	11036	760	ug/kg	UJ	380	94.59%
111441	Dibenzo(a,h)anthracene	1985	250	ug/kg	J	250	91.89%
111300	Dibenzo(a,h)anthracene	SWL-SS-04	460	ug/kg	UJ	230	86.48%
111307	Dibenzo(a,h)anthracene	SWL-SS-09	460	ug/kg	UJ	230	86.48%
115350	Dibenzo(a,h)anthracene	1988	440	ug/kg	U	220	83.78%
111309	Dibenzo(a,h)anthracene	SWL-SS-10	420	ug/kg	UJ	210	81.08%
067311	Dibenzo(a,h)anthracene	1720	410	ug/kg	U	205	62.16%
067717	Dibenzo(a,h)anthracene	1888	410	ug/kg	U	205	62.16%
115343	Dibenzo(a,h)anthracene	1992	410	ug/kg	U	205	62.16%
115371	Dibenzo(a,h)anthracene	11037	410	ug/kg	U	205	62.16%
111297	Dibenzo(a,h)anthracene	SWL-SS-02	410	ug/kg	UJ	205	62.16%
111301	Dibenzo(a,h)anthracene	SWL-SS-05	410	ug/kg	UJ	205	62.16%
111312	Dibenzo(a,h)anthracene	SWL-SS-12	410	ug/kg	UJ	205	62.16%
111293	Dibenzo(a,h)anthracene	SWL-SS-01	200	ug/kg	J	200	48.64%
111476	Dibenzo(a,h)anthracene	1983	400	ug/kg	U	200	48.64%
111492	Dibenzo(a,h)anthracene	SWL-SS-08	400	ug/kg	U	200	48.64%
115362	Dibenzo(a,h)anthracene	1989	400	ug/kg	U	200	48.64%
111310	Dibenzo(a,h)anthracene	SWL-SS-11	400	ug/kg	UJ	200	48.64%
111477	Dibenzo(a,h)anthracene	1983	390	ug/kg	U	195	37.83%
115339	Dibenzo(a,h)anthracene	1993	390	ug/kg	U	195	37.83%
111298	Dibenzo(a,h)anthracene	SWL-SS-03	390	ug/kg	UJ	195	37.83%
111304	Dibenzo(a,h)anthracene	SWL-SS-07	390	ug/kg	UJ	195	37.83%
067714	Dibenzo(a,h)anthracene	1888	380	ug/kg	U	190	35.13%
067250	Dibenzo(a,h)anthracene	1722	370	ug/kg	U	185	32.43%
067396	Dibenzo(a,h)anthracene	1808	180	ug/kg	J	180	27.02%
111466	Dibenzo(a,h)anthracene	1984	360	ug/kg	U	180	27.02%
115319	Dibenzo(a,h)anthracene	1991	140	ug/kg	J	140	24.32%
111452	Dibenzo(a,h)anthracene	1986	120	ug/kg	J	120	21.62%
115357	Dibenzo(a,h)anthracene	1987	110	ug/kg	J	110	18.91%
115376	Dibenzo(a,h)anthracene	11038	96	ug/kg	J	96	13.51%
115392	Dibenzo(a,h)anthracene	11040	96	ug/kg	J	96	13.51%
067394	Dibenzo(a,h)anthracene	1808	92	ug/kg	J	92	10.81%
115329	Dibenzo(a,h)anthracene	1990	68	ug/kg	J	68	8.10%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111303	Dibenzo(a,h)anthracene	SWL-SS-06	56	ug/kg	J	56	5.40%
067287	Dibenzo(a,h)anthracene	1719	49	ug/kg	J	49	2.70%
111484	Dibenzo(a,h)anthracene	1982	40	ug/kg	J	40	0.00%

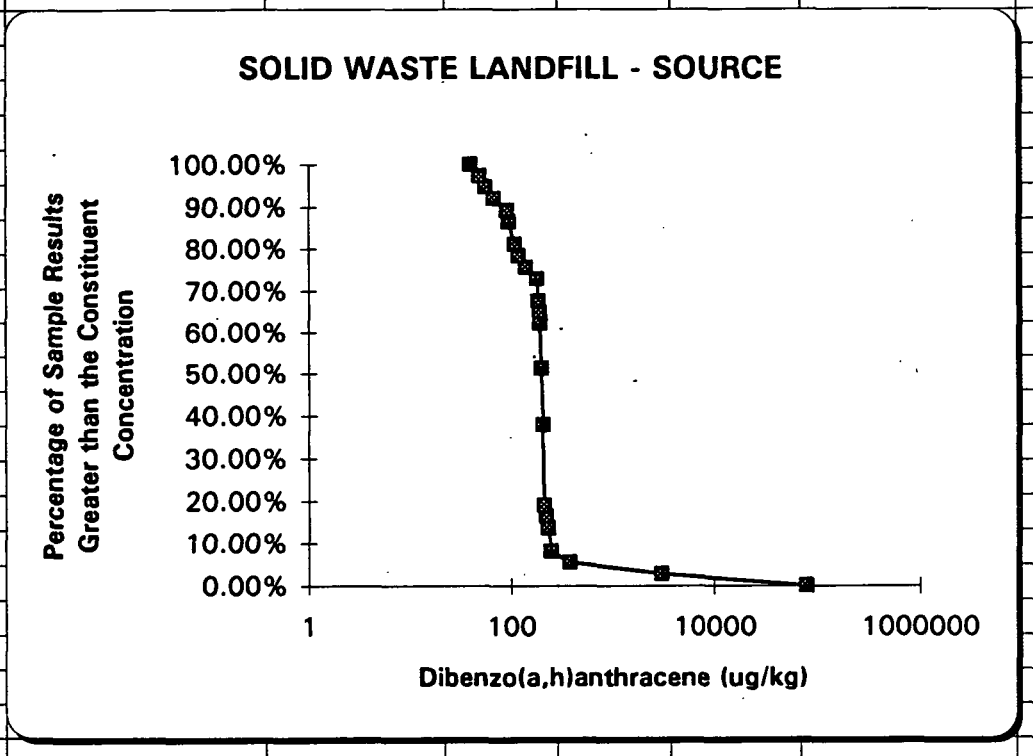

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115384	Indeno(1,2,3-cd)pyrene	11039	150000	ug/kg	-	150000	100.00%
115389	Indeno(1,2,3-cd)pyrene	11041	6500	ug/kg	-	6500	97.29%
067287	Indeno(1,2,3-cd)pyrene	1719	5500	ug/kg	-	5500	94.59%
111441	Indeno(1,2,3-cd)pyrene	1985	520	ug/kg	J	520	91.89%
111293	Indeno(1,2,3-cd)pyrene	SWL-SS-01	480	ug/kg	J	480	89.18%
115357	Indeno(1,2,3-cd)pyrene	1987	440	ug/kg	-	440	83.78%
067394	Indeno(1,2,3-cd)pyrene	1808	440	ug/kg	J	440	83.78%
067396	Indeno(1,2,3-cd)pyrene	1808	430	ug/kg	J	430	81.08%
115319	Indeno(1,2,3-cd)pyrene	1991	320	ug/kg	J	320	75.67%
115339	Indeno(1,2,3-cd)pyrene	1993	320	ug/kg	J	320	75.67%
115329	Indeno(1,2,3-cd)pyrene	1990	280	ug/kg	J	280	72.97%
115343	Indeno(1,2,3-cd)pyrene	1992	260	ug/kg	J	260	70.27%
111452	Indeno(1,2,3-cd)pyrene	1986	230	ug/kg	J	230	64.86%
111307	Indeno(1,2,3-cd)pyrene	SWL-SS-09	460	ug/kg	UJ	230	64.86%
115350	Indeno(1,2,3-cd)pyrene	1988	440	ug/kg	U	220	62.16%
115376	Indeno(1,2,3-cd)pyrene	11038	210	ug/kg	J	210	56.75%
111309	Indeno(1,2,3-cd)pyrene	SWL-SS-10	420	ug/kg	UJ	210	56.75%
067311	Indeno(1,2,3-cd)pyrene	1720	410	ug/kg	U	205	40.54%
067717	Indeno(1,2,3-cd)pyrene	1888	410	ug/kg	U	205	40.54%
115371	Indeno(1,2,3-cd)pyrene	11037	410	ug/kg	U	205	40.54%
111297	Indeno(1,2,3-cd)pyrene	SWL-SS-02	410	ug/kg	UJ	205	40.54%
111301	Indeno(1,2,3-cd)pyrene	SWL-SS-05	410	ug/kg	UJ	205	40.54%
111312	Indeno(1,2,3-cd)pyrene	SWL-SS-12	410	ug/kg	UJ	205	40.54%
115392	Indeno(1,2,3-cd)pyrene	11040	200	ug/kg	J	200	32.43%
111476	Indeno(1,2,3-cd)pyrene	1983	400	ug/kg	U	200	32.43%
111310	Indeno(1,2,3-cd)pyrene	SWL-SS-11	400	ug/kg	UJ	200	32.43%
111304	Indeno(1,2,3-cd)pyrene	SWL-SS-07	390	ug/kg	UJ	195	29.72%
067714	Indeno(1,2,3-cd)pyrene	1888	380	ug/kg	U	190	27.02%
067250	Indeno(1,2,3-cd)pyrene	1722	370	ug/kg	U	185	24.32%
111466	Indeno(1,2,3-cd)pyrene	1984	360	ug/kg	U	180	21.62%
115381	Indeno(1,2,3-cd)pyrene	11036	130	ug/kg	J	130	18.91%
111303	Indeno(1,2,3-cd)pyrene	SWL-SS-06	100	ug/kg	J	100	16.21%
111300	Indeno(1,2,3-cd)pyrene	SWL-SS-04	91	ug/kg	J	91	10.81%
111484	Indeno(1,2,3-cd)pyrene	1982	91	ug/kg	J	91	10.81%
111298	Indeno(1,2,3-cd)pyrene	SWL-SS-03	73	ug/kg	J	73	8.10%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115362	Indeno(1,2,3-cd)pyrene	1989	67	ug/kg	J	67	5.40%
111492	Indeno(1,2,3-cd)pyrene	SWL-SS-08	46	ug/kg	J	46	2.70%
111477	Indeno(1,2,3-cd)pyrene	1983	45	ug/kg	J	45	0.00%

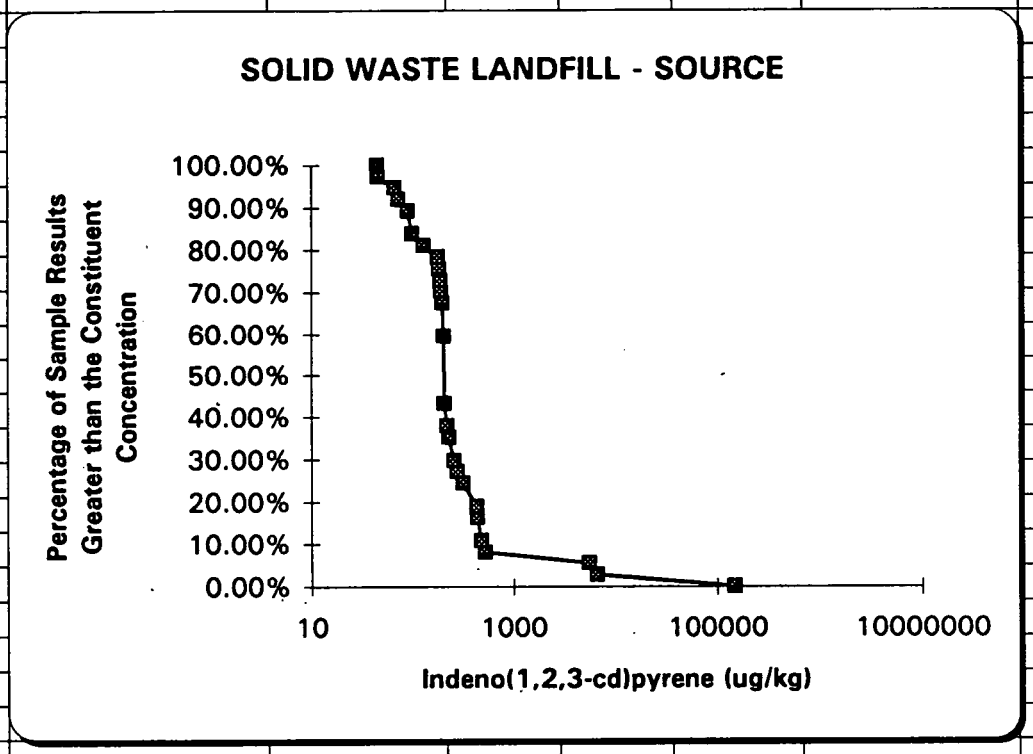

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111312	Neptunium-237	SWL-SS-12	3.11	pci/g	N	3.11	100.00%
115381	Neptunium-237	11036	1.67	pci/g	N	1.67	97.05%
067292	Neptunium-237	1719	1	pci/g	UJ	0.5	94.11%
111441	Neptunium-237	1985	0.462	pci/g	N	0.462	91.17%
111484	Neptunium-237	1982	0.34	pci/g	N	0.34	88.23%
067286	Neptunium-237	1719	0.6	pci/g	U	0.3	52.94%
067306	Neptunium-237	1720	0.6	pci/g	U	0.3	52.94%
067310	Neptunium-237	1720	0.6	pci/g	U	0.3	52.94%
067313	Neptunium-237	1720	0.6	pci/g	U	0.3	52.94%
067230	Neptunium-237	1721	0.6	pci/g	UJ	0.3	52.94%
067257	Neptunium-237	1722	0.6	pci/g	UJ	0.3	52.94%
067258	Neptunium-237	1722	0.6	pci/g	UJ	0.3	52.94%
067266	Neptunium-237	1718	0.6	pci/g	UJ	0.3	52.94%
067275	Neptunium-237	1718	0.6	pci/g	UJ	0.3	52.94%
067393	Neptunium-237	1808	0.6	pci/g	UJ	0.3	52.94%
067398	Neptunium-237	1808	0.6	pci/g	UJ	0.3	52.94%
067400	Neptunium-237	1808	0.6	pci/g	UJ	0.3	52.94%
115339	Neptunium-237	1993	0.252	pci/g	N	0.252	50.00%
115319	Neptunium-237	1991	0.25	pci/g	N	0.25	47.05%
111476	Neptunium-237	1983	0.237	pci/g	N	0.237	44.11%
111301	Neptunium-237	SWL-SS-05	0.194	pci/g	N	0.194	41.17%
115384	Neptunium-237	11039	0.19	pci/g	N	0.19	38.23%
111477	Neptunium-237	1983	0.185	pci/g	N	0.185	35.29%
111298	Neptunium-237	SWL-SS-03	0.147	pci/g	N	0.147	32.35%
115329	Neptunium-237	1990	0.14	pci/g	N	0.14	29.41%
115343	Neptunium-237	1992	0.117	pci/g	N	0.117	23.52%
115389	Neptunium-237	11041	0.117	pci/g	N	0.117	23.52%
115357	Neptunium-237	1987	0.116	pci/g	N	0.116	20.58%
111297	Neptunium-237	SWL-SS-02	0.115	pci/g	N	0.115	17.64%
115350	Neptunium-237	1988	0.101	pci/g	N	0.101	14.70%
111492	Neptunium-237	SWL-SS-08	0.0747	pci/g	N	0.0747	11.76%
111307	Neptunium-237	SWL-SS-09	0.0639	pci/g	N	0.0639	8.82%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111466	Neptunium-237	1984	0.05	pci/g	N	0.05	5.88%
111309	Neptunium-237	SWL-SS-10	0.046	pci/g	N	0.046	2.94%
111304	Neptunium-237	SWL-SS-07	0.0457	pci/g	N	0.0457	0.00%

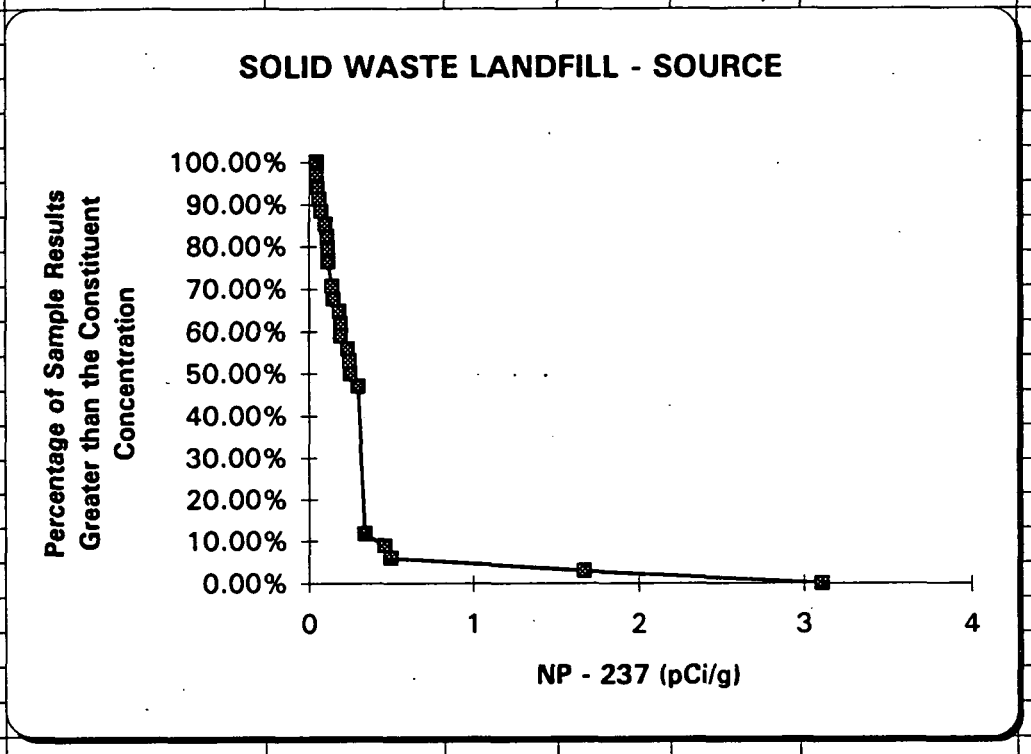

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111492	Plutonium-238	SWL-SS-08	0.9024	pci/g	J	0.9024	100.00%
067292	Plutonium-238	1719	1	pci/g	U	0.5	97.61%
111476	Plutonium-238	1983	0.433	pci/g	J	0.433	95.23%
115381	Plutonium-238	11036	0.337	pci/g	J	0.337	92.85%
111312	Plutonium-238	SWL-SS-12	0.333	pci/g	J	0.333	90.47%
115350	Plutonium-238	1988	0.328	pci/g	J	0.328	88.09%
067257	Plutonium-238	1722	0.6	pci/g	U	0.3	57.14%
067258	Plutonium-238	1722	0.6	pci/g	U	0.3	57.14%
067286	Plutonium-238	1719	0.6	pci/g	U	0.3	57.14%
067718	Plutonium-238	1888	0.6	pci/g	U	0.3	57.14%
067230	Plutonium-238	1721	0.6	pci/g	UJ	0.3	57.14%
067266	Plutonium-238	1718	0.6	pci/g	UJ	0.3	57.14%
067275	Plutonium-238	1718	0.6	pci/g	UJ	0.3	57.14%
067306	Plutonium-238	1720	0.6	pci/g	UJ	0.3	57.14%
067310	Plutonium-238	1720	0.6	pci/g	UJ	0.3	57.14%
067313	Plutonium-238	1720	0.6	pci/g	UJ	0.3	57.14%
067393	Plutonium-238	1808	0.6	pci/g	UJ	0.3	57.14%
067398	Plutonium-238	1808	0.6	pci/g	UJ	0.3	57.14%
067400	Plutonium-238	1808	0.6	pci/g	UJ	0.3	57.14%
115389	Plutonium-238	11041	0.257	pci/g	J	0.257	54.76%
115329	Plutonium-238	1990	0.232	pci/g	J	0.232	52.38%
111300	Plutonium-238	SWL-SS-04	0.207	pci/g	J	0.207	50.00%
115384	Plutonium-238	11039	0.14	pci/g	J	0.14	47.61%
115343	Plutonium-238	1992	0.102	pci/g	J	0.102	45.23%
111484	Plutonium-238	1982	0.1	pci/g	J	0.1	42.85%
111309	Plutonium-238	SWL-SS-10	0.0968	pci/g	J	0.0968	40.47%
111298	Plutonium-238	SWL-SS-03	0.095	pci/g	J	0.095	38.09%
111301	Plutonium-238	SWL-SS-05	0.0718	pci/g	J	0.0718	35.71%
115319	Plutonium-238	1991	0.06	pci/g	J	0.06	30.95%
115362	Plutonium-238	1989	0.06	pci/g	J	0.06	30.95%
111297	Plutonium-238	SWL-SS-02	0.0573	pci/g	J	0.0573	28.57%
111303	Plutonium-238	SWL-SS-06	0.049	pci/g	J	0.049	26.19%
115392	Plutonium-238	11040	0.039	pci/g	J	0.039	23.80%
111477	Plutonium-238	1983	0.033	pci/g	J	0.033	21.42%
115371	Plutonium-238	11037	0.03	pci/g	J	0.03	19.04%
111466	Plutonium-238	1984	0.027	pci/g	J	0.027	16.66%
111304	Plutonium-238	SWL-SS-07	0.0228	pci/g	J	0.0228	14.28%
115339	Plutonium-238	1993	0.0226	pci/g	J	0.0226	11.90%
111441	Plutonium-238	1985	0.042	pci/g	UJ	0.021	9.52%
111307	Plutonium-238	SWL-SS-09	0.0191	pci/g	J	0.0191	7.14%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115357	Plutonium-238	1987	0.0188	pci/g	J	0.0188	4.76%
111293	Plutonium-238	SWL-SS-01	0.0264	pci/g	UJ	0.0132	2.38%
111310	Plutonium-238	SWL-SS-11	0.0153	pci/g	UJ	0.00765	0.00%

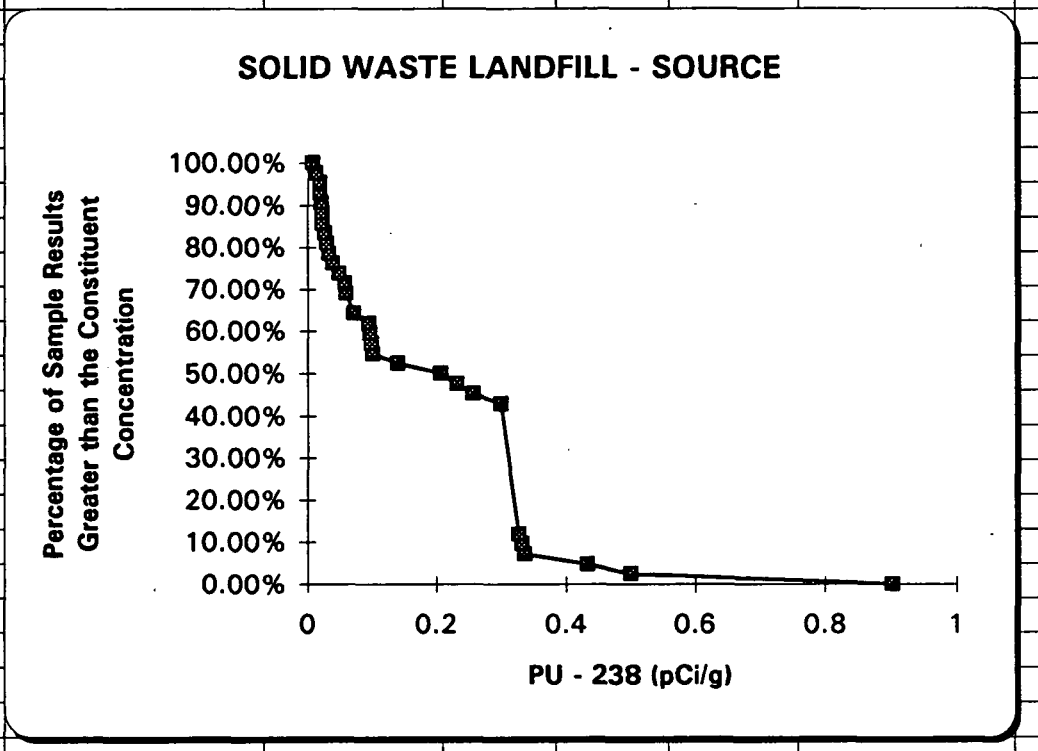

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Radium-226	11036	113	pci/g	-	113	100.00%
111307	Radium-226	SWL-SS-09	2.26	pci/g	-	2.26	97.61%
111441	Radium-226	1985	1.87	pci/g	-	1.87	95.23%
111301	Radium-226	SWL-SS-05	1.59	pci/g	-	1.59	92.85%
067313	Radium-226	1720	1.55	pci/g	J	1.55	90.47%
067251	Radium-226	1722	1.5	pci/g	J	1.5	88.09%
067266	Radium-226	1718	1.41	pci/g	J	1.41	85.71%
111476	Radium-226	1983	1.35	pci/g	-	1.35	83.33%
111484	Radium-226	1982	1.3	pci/g	-	1.3	80.95%
111303	Radium-226	SWL-SS-06	1.26	pci/g	-	1.26	78.57%
067286	Radium-226	1719	1.24	pci/g	J	1.24	76.19%
115392	Radium-226	11040	1.22	pci/g	-	1.22	73.80%
115357	Radium-226	1987	1.21	pci/g	-	1.21	71.42%
115343	Radium-226	1992	1.19	pci/g	-	1.19	69.04%
115371	Radium-226	11037	1.18	pci/g	-	1.18	66.66%
111477	Radium-226	1983	1.17	pci/g	-	1.17	64.28%
115339	Radium-226	1993	1.165	pci/g	-	1.165	61.90%
111297	Radium-226	SWL-SS-02	1.16	pci/g	-	1.16	57.14%
115389	Radium-226	11041	1.16	pci/g	-	1.16	57.14%
115350	Radium-226	1988	1.15	pci/g	-	1.15	52.38%
067275	Radium-226	1718	1.15	pci/g	J	1.15	52.38%
115319	Radium-226	1991	1.14	pci/g	-	1.14	50.00%
111312	Radium-226	SWL-SS-12	1.13	pci/g	-	1.13	47.61%
111300	Radium-226	SWL-SS-04	1.12	pci/g	-	1.12	40.47%
111492	Radium-226	SWL-SS-08	1.12	pci/g	-	1.12	40.47%
067718	Radium-226	1888	1.12	pci/g	J	1.12	40.47%
111466	Radium-226	1984	1.11	pci/g	J	1.11	38.09%
067306	Radium-226	1720	1.06	pci/g	J	1.06	35.71%
067398	Radium-226	1808	1.05	pci/g	J	1.05	33.33%
111298	Radium-226	SWL-SS-03	1.04	pci/g	-	1.04	30.95%
067257	Radium-226	1722	1.01	pci/g	-	1.01	23.80%
111309	Radium-226	SWL-SS-10	1.01	pci/g	-	1.01	23.80%
067310	Radium-226	1720	1.01	pci/g	J	1.01	23.80%
067292	Radium-226	1719	1	pci/g	J	1	21.42%
111304	Radium-226	SWL-SS-07	0.975	pci/g	-	0.975	19.04%
115362	Radium-226	1989	0.97	pci/g	J	0.97	16.66%
111310	Radium-226	SWL-SS-11	0.92	pci/g	-	0.92	14.28%
111293	Radium-226	SWL-SS-01	0.915	pci/g	-	0.915	11.90%
067230	Radium-226	1721	0.89	pci/g	J	0.89	9.52%
115329	Radium-226	1990	0.879	pci/g	-	0.879	7.14%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067258	Radium-226	1722	0.87	pci/g	-	0.87	4.76%
115384	Radium-226	11039	0.82	pci/g	J	0.82	2.38%
067400	Radium-226	1808	0.68	pci/g	J	0.68	0.00%

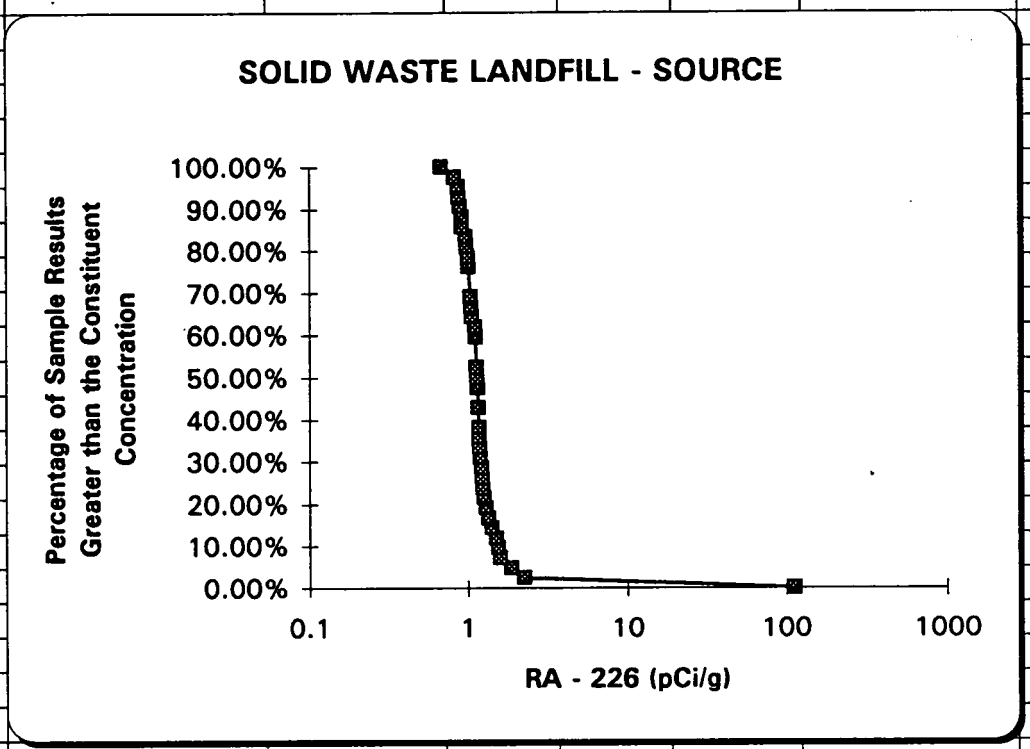

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Radium-228	11036	6.65	pci/g	-	6.65	100.00%
067266	Radium-228	1718	3.15	pci/g	J	3.15	97.61%
111300	Radium-228	SWL-SS-04	2.99	pci/g	-	2.99	95.23%
115350	Radium-228	1988	2.56	pci/g	-	2.56	92.85%
111476	Radium-228	1983	2.39	pci/g	-	2.39	90.47%
115389	Radium-228	11041	2.14	pci/g	-	2.14	88.09%
111312	Radium-228	SWL-SS-12	2.07	pci/g	-	2.07	85.71%
067718	Radium-228	1888	1.57	pci/g	J	1.57	83.33%
067313	Radium-228	1720	1.48	pci/g	J	1.48	80.95%
111492	Radium-228	SWL-SS-08	1.45	pci/g	-	1.45	78.57%
115343	Radium-228	1992	1.39	pci/g	-	1.39	76.19%
115357	Radium-228	1987	1.37	pci/g	-	1.37	73.80%
115329	Radium-228	1990	1.35	pci/g	-	1.35	69.04%
067306	Radium-228	1720	1.35	pci/g	J	1.35	69.04%
067257	Radium-228	1722	1.32	pci/g	-	1.32	66.66%
111301	Radium-228	SWL-SS-05	1.3	pci/g	-	1.3	64.28%
111298	Radium-228	SWL-SS-03	1.28	pci/g	-	1.28	61.90%
115362	Radium-228	1989	1.22	pci/g	-	1.22	59.52%
111309	Radium-228	SWL-SS-10	1.21	pci/g	-	1.21	54.76%
115339	Radium-228	1993	1.21	pci/g	-	1.21	54.76%
111441	Radium-228	1985	1.19	pci/g	-	1.19	50.00%
111484	Radium-228	1982	1.19	pci/g	-	1.19	50.00%
111307	Radium-228	SWL-SS-09	1.16	pci/g	-	1.16	42.85%
115371	Radium-228	11037	1.16	pci/g	-	1.16	42.85%
067398	Radium-228	1808	1.16	pci/g	J	1.16	42.85%
115392	Radium-228	11040	1.13	pci/g	-	1.13	38.09%
067275	Radium-228	1718	1.13	pci/g	J	1.13	38.09%
067286	Radium-228	1719	1.1	pci/g	J	1.1	35.71%
067310	Radium-228	1720	1.07	pci/g	J	1.07	33.33%
111466	Radium-228	1984	1.06	pci/g	-	1.06	28.57%
115384	Radium-228	11039	1.06	pci/g	-	1.06	28.57%
115319	Radium-228	1991	1.05	pci/g	-	1.05	26.19%
067251	Radium-228	1722	1.03	pci/g	J	1.03	23.80%
111477	Radium-228	1983	1.02	pci/g	-	1.02	21.42%
111297	Radium-228	SWL-SS-02	1.01	pci/g	-	1.01	19.04%
067292	Radium-228	1719	1	pci/g	J	1	16.66%
067258	Radium-228	1722	0.98	pci/g	-	0.98	14.28%
111303	Radium-228	SWL-SS-06	0.918	pci/g	-	0.918	11.90%
111310	Radium-228	SWL-SS-11	0.847	pci/g	-	0.847	9.52%
111293	Radium-228	SWL-SS-01	0.843	pci/g	-	0.843	7.14%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111304	Radium-228	SWL-SS-07	0.721	pci/g	-	0.721	4.76%
067230	Radium-228	1721	0.67	pci/g	J	0.67	2.38%
067400	Radium-228	1808	0.6	pci/g	J	0.6	0.00%

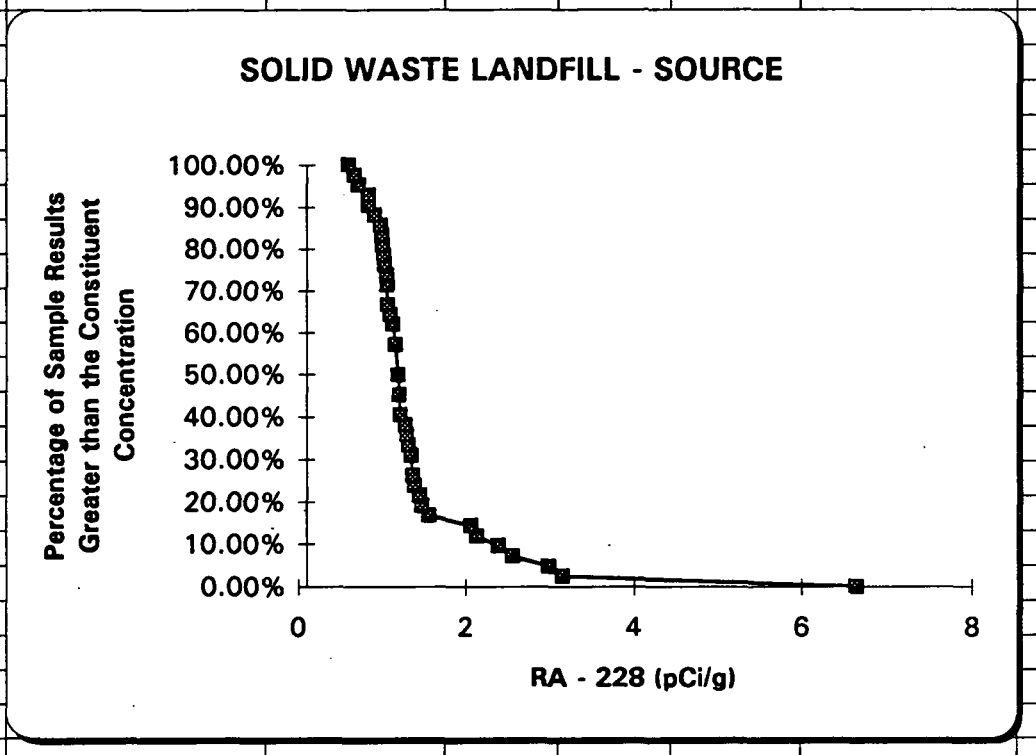

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
67310	Strontium-90	1720	3.09	pci/g	J	3.09	100.00%
115381	Strontium-90	11036	1.99	pci/g	J	1.99	97.50%
67306	Strontium-90	1720	1.58	pci/g	J	1.58	95.00%
111307	Strontium-90	SWL-SS-09	1.44	pci/g	J	1.44	92.50%
67257	Strontium-90	1722	1.42	pci/g	-	1.42	90.00%
111297	Strontium-90	SWL-SS-02	1.23	pci/g	J	1.23	87.50%
67292	Strontium-90	1719	1.1	pci/g	J	1.1	85.00%
111300	Strontium-90	SWL-SS-04	1.09	pci/g	J	1.09	82.50%
111312	Strontium-90	SWL-SS-12	1.07	pci/g	J	1.07	80.00%
111304	Strontium-90	SWL-SS-07	1.05	pci/g	J	1.05	77.50%
67718	Strontium-90	1888	1.01	pci/g	-	1.01	75.00%
67313	Strontium-90	1720	0.9	pci/g	J	0.9	72.50%
67286	Strontium-90	1719	0.86	pci/g	J	0.86	70.00%
67230	Strontium-90	1721	0.8	pci/g	J	0.8	67.50%
111303	Strontium-90	SWL-SS-06	0.789	pci/g	J	0.789	65.00%
111293	Strontium-90	SWL-SS-01	0.58	pci/g	J	0.58	62.50%
111476	Strontium-90	1983	0.55	pci/g	J	0.55	60.00%
111309	Strontium-90	SWL-SS-10	0.527	pci/g	J	0.527	57.50%
67258	Strontium-90	1722	0.9	pci/g	D	0.45	55.00%
111301	Strontium-90	SWL-SS-05	0.525	pci/g	UJ	0.2625	52.50%
67251	Strontium-90	1722	0.5	pci/g	UJ	0.25	42.50%
67393	Strontium-90	1808	0.5	pci/g	UJ	0.25	42.50%
67398	Strontium-90	1808	0.5	pci/g	UJ	0.25	42.50%
67400	Strontium-90	1808	0.5	pci/g	UJ	0.25	42.50%
111466	Strontium-90	1984	0.484	pci/g	UJ	0.242	40.00%
115319	Strontium-90	1991	0.48	pci/g	UJ	0.24	37.50%
111298	Strontium-90	SWL-SS-03	0.477	pci/g	UJ	0.2385	35.00%
111477	Strontium-90	1983	0.47	pci/g	UJ	0.235	32.50%
111492	Strontium-90	SWL-SS-08	0.432	pci/g	UJ	0.216	30.00%
111484	Strontium-90	1982	0.43	pci/g	UJ	0.215	27.50%
111310	Strontium-90	SWL-SS-11	0.422	pci/g	UJ	0.211	25.00%
115389	Strontium-90	11041	0.195	pci/g	J	0.195	20.00%
111441	Strontium-90	1985	0.39	pci/g	UJ	0.195	20.00%
115339	Strontium-90	1993	0.224	pci/g	UJ	0.112	17.50%
115371	Strontium-90	11037	0.21	pci/g	UJ	0.105	15.00%
115343	Strontium-90	1992	0.206	pci/g	UJ	0.103	12.50%
115362	Strontium-90	1989	0.19	pci/g	UJ	0.095	10.00%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115384	Strontium-90	11039	0.17	pci/g	UJ	0.085	7.50%
115357	Strontium-90	1987	0.163	pci/g	UJ	0.0815	5.00%
115350	Strontium-90	1988	0.149	pci/g	UJ	0.0745	2.50%
115329	Strontium-90	1990	0.143	pci/g	UJ	0.0715	.00%

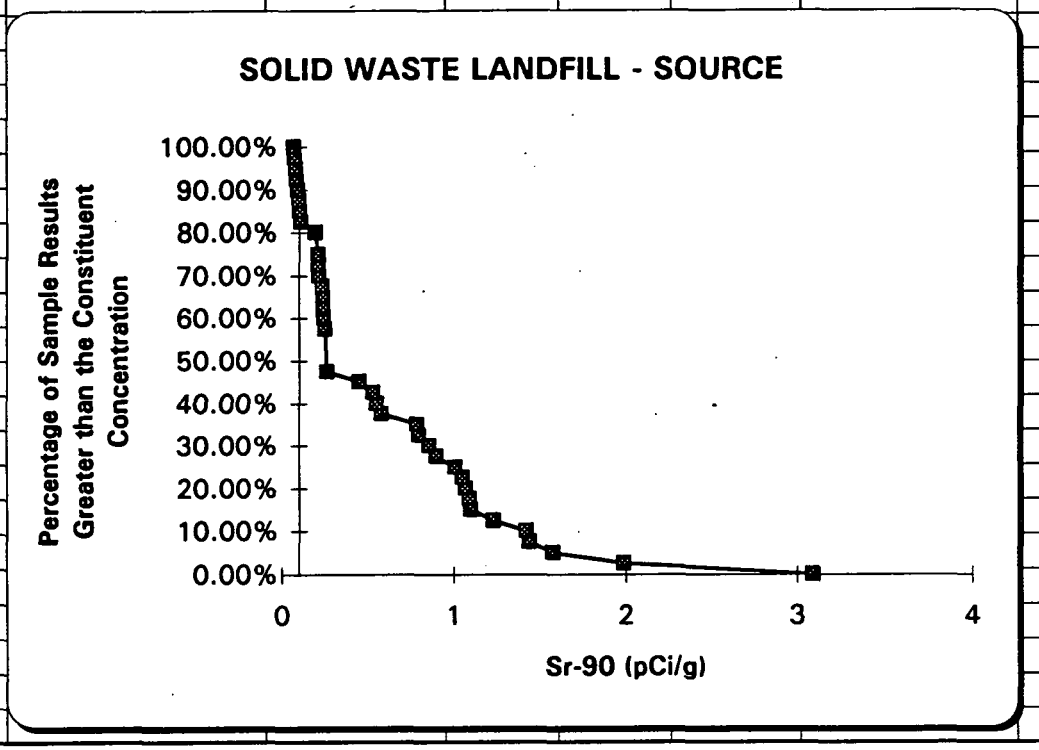

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Technetium-99	11036	5.13	pci/g	J	5.13	100.00%
115384	Technetium-99	11039	0.84	pci/g	J	0.84	97.56%
115389	Technetium-99	11041	0.754	pci/g	J	0.754	95.12%
067230	Technetium-99	1721	0.9	pci/g	U	0.45	60.97%
067257	Technetium-99	1722	0.9	pci/g	U	0.45	60.97%
067258	Technetium-99	1722	0.9	pci/g	U	0.45	60.97%
067266	Technetium-99	1718	0.9	pci/g	U	0.45	60.97%
067275	Technetium-99	1718	0.9	pci/g	U	0.45	60.97%
067286	Technetium-99	1719	0.9	pci/g	U	0.45	60.97%
067292	Technetium-99	1719	0.9	pci/g	U	0.45	60.97%
067306	Technetium-99	1720	0.9	pci/g	U	0.45	60.97%
067310	Technetium-99	1720	0.9	pci/g	U	0.45	60.97%
067313	Technetium-99	1720	0.9	pci/g	U	0.45	60.97%
067393	Technetium-99	1808	0.9	pci/g	U	0.45	60.97%
067398	Technetium-99	1808	0.9	pci/g	U	0.45	60.97%
067400	Technetium-99	1808	0.9	pci/g	U	0.45	60.97%
067718	Technetium-99	1888	0.9	pci/g	UJ	0.45	60.97%
115343	Technetium-99	1992	0.561	pci/g	UJ	0.2805	58.53%
115339	Technetium-99	1993	0.522	pci/g	UJ	0.261	56.09%
115329	Technetium-99	1990	0.43	pci/g	UJ	0.215	53.65%
111477	Technetium-99	1983	0.4	pci/g	UJ	0.2	51.21%
115371	Technetium-99	11037	0.38	pci/g	UJ	0.19	48.78%
111492	Technetium-99	SWL-SS-08	0.373	pci/g	UJ	0.1865	46.34%
111466	Technetium-99	1984	0.366	pci/g	UJ	0.183	43.90%
111441	Technetium-99	1985	0.36	pci/g	UJ	0.18	39.02%
111484	Technetium-99	1982	0.36	pci/g	UJ	0.18	39.02%
111303	Technetium-99	SWL-SS-06	0.358	pci/g	UJ	0.179	34.14%
111310	Technetium-99	SWL-SS-11	0.358	pci/g	UJ	0.179	34.14%
111312	Technetium-99	SWL-SS-12	0.354	pci/g	UJ	0.177	31.70%
111309	Technetium-99	SWL-SS-10	0.351	pci/g	UJ	0.1755	29.26%
111476	Technetium-99	1983	0.35	pci/g	UJ	0.175	24.39%
115362	Technetium-99	1989	0.35	pci/g	UJ	0.175	24.39%
111300	Technetium-99	SWL-SS-04	0.349	pci/g	UJ	0.1745	21.95%
111298	Technetium-99	SWL-SS-03	0.346	pci/g	UJ	0.173	19.51%
115350	Technetium-99	1988	0.342	pci/g	UJ	0.171	17.07%
111304	Technetium-99	SWL-SS-07	0.337	pci/g	UJ	0.1685	14.63%
111293	Technetium-99	SWL-SS-01	0.335	pci/g	UJ	0.1675	12.19%
111297	Technetium-99	SWL-SS-02	0.334	pci/g	UJ	0.167	7.31%
111307	Technetium-99	SWL-SS-09	0.334	pci/g	UJ	0.167	7.31%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115319	Technetium-99	1991	0.33	pci/g	UJ	0.165	4.87%
111301	Technetium-99	SWL-SS-05	0.327	pci/g	UJ	0.1635	2.43%
115357	Technetium-99	1987	0.307	pci/g	UJ	0.1535	0.00%

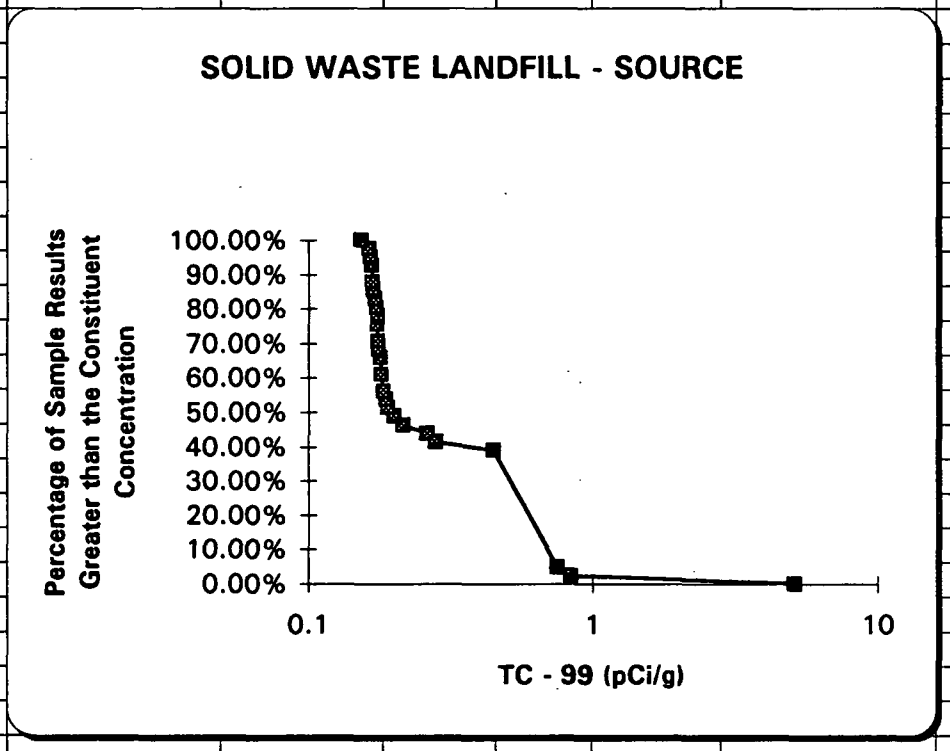

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Thorium-228	11036	9.36	pci/g	-	9.36	100.00%
067393	Thorium-228	1808	4.01	pci/g	J	4.01	97.29%
067266	Thorium-228	1718	3.39	pci/g	J	3.39	94.59%
111476	Thorium-228	1983	2.69	pci/g	-	2.69	91.89%
111300	Thorium-228	SWL-SS-04	2.33	pci/g	-	2.33	89.18%
067275	Thorium-228	1718	2.29	pci/g	J	2.29	86.48%
067306	Thorium-228	1720	2.1	pci/g	J	2.1	83.78%
115389	Thorium-228	11041	2.09	pci/g	-	2.09	81.08%
067313	Thorium-228	1720	2.02	pci/g	J	2.02	78.37%
115350	Thorium-228	1988	1.92	pci/g	-	1.92	75.67%
067251	Thorium-228	1722	1.61	pci/g	J	1.61	72.97%
067230	Thorium-228	1721	1.57	pci/g	J	1.57	70.27%
115343	Thorium-228	1992	1.51	pci/g	J	1.51	67.56%
111301	Thorium-228	SWL-SS-05	1.41	pci/g	-	1.41	64.86%
115329	Thorium-228	1990	1.4	pci/g	J	1.4	62.16%
067718	Thorium-228	1888	1.37	pci/g	-	1.37	59.45%
067286	Thorium-228	1719	1.24	pci/g	-	1.24	56.75%
111492	Thorium-228	SWL-SS-08	1.21	pci/g	J	1.21	54.05%
111484	Thorium-228	1982	1.19	pci/g	-	1.19	51.35%
067310	Thorium-228	1720	1.17	pci/g	J	1.17	43.24%
067398	Thorium-228	1808	1.17	pci/g	J	1.17	43.24%
067400	Thorium-228	1808	1.17	pci/g	J	1.17	43.24%
111298	Thorium-228	SWL-SS-03	1.14	pci/g	-	1.14	40.54%
111477	Thorium-228	1983	1.11	pci/g	-	1.11	37.83%
067257	Thorium-228	1722	1.09	pci/g	J	1.09	35.13%
111297	Thorium-228	SWL-SS-02	1.08	pci/g	-	1.08	29.72%
111307	Thorium-228	SWL-SS-09	1.08	pci/g	-	1.08	29.72%
115384	Thorium-228	11039	1.02	pci/g	J	1.02	27.02%
115357	Thorium-228	1987	0.978	pci/g	-	0.978	24.32%
067258	Thorium-228	1722	0.96	pci/g	-	0.96	21.62%
111466	Thorium-228	1984	0.93	pci/g	-	0.93	18.91%
115371	Thorium-228	11037	0.92	pci/g	J	0.92	16.21%
115339	Thorium-228	1993	0.904	pci/g	-	0.904	13.51%
111441	Thorium-228	1985	0.83	pci/g	-	0.83	8.10%
115319	Thorium-228	1991	0.83	pci/g	J	0.83	8.10%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111293	Thorium-228	SWL-SS-01	0.814	pci/g	-	0.814	5.40%
111303	Thorium-228	SWL-SS-06	0.79	pci/g	-	0.79	2.70%
111304	Thorium-228	SWL-SS-07	0.482	pci/g	J	0.482	0.00%

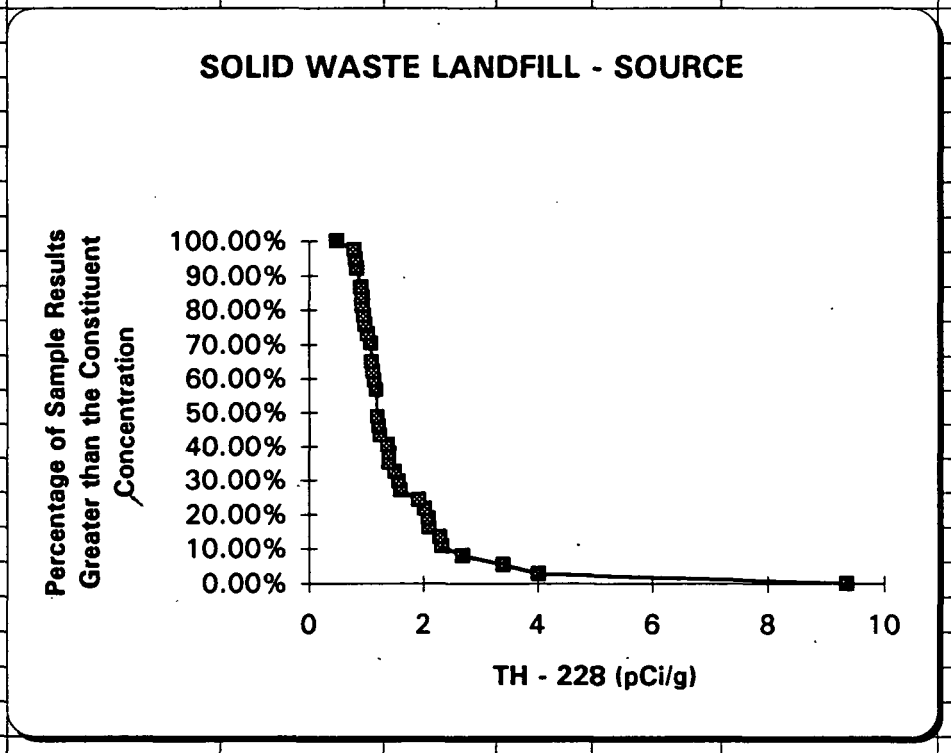

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Thorium-230	11036	720	pci/g	-	720	100.00%
111441	Thorium-230	1985	15.36	pci/g	-	15.36	97.29%
067251	Thorium-230	1722	12.3	pci/g	J	12.3	94.59%
111301	Thorium-230	SWL-SS-05	9.61	pci/g	-	9.61	91.89%
115339	Thorium-230	1993	6.72	pci/g	-	6.72	89.18%
115384	Thorium-230	11039	4.3	pci/g	J	4.3	86.48%
111477	Thorium-230	1983	4.26	pci/g	-	4.26	83.78%
111307	Thorium-230	SWL-SS-09	3.88	pci/g	-	3.88	81.08%
067258	Thorium-230	1722	3.81	pci/g	-	3.81	78.37%
111297	Thorium-230	SWL-SS-02	3.74	pci/g	-	3.74	75.67%
111476	Thorium-230	1983	3.47	pci/g	-	3.47	72.97%
067306	Thorium-230	1720	3.46	pci/g	J	3.46	70.27%
115329	Thorium-230	1990	3.42	pci/g	J	3.42	67.56%
111298	Thorium-230	SWL-SS-03	3.24	pci/g	-	3.24	64.86%
111492	Thorium-230	SWL-SS-08	3.13	pci/g	J	3.13	62.16%
067393	Thorium-230	1808	2.76	pci/g	J	2.76	59.45%
067310	Thorium-230	1720	2.51	pci/g	J	2.51	56.75%
067398	Thorium-230	1808	2.42	pci/g	J	2.42	54.05%
067257	Thorium-230	1722	2.4	pci/g	J	2.4	51.35%
115350	Thorium-230	1988	2.33	pci/g	-	2.33	48.64%
067718	Thorium-230	1888	2.3	pci/g	-	2.3	43.24%
067266	Thorium-230	1718	2.3	pci/g	J	2.3	43.24%
111293	Thorium-230	SWL-SS-01	2.21	pci/g	-	2.21	40.54%
111300	Thorium-230	SWL-SS-04	2.14	pci/g	-	2.14	37.83%
115343	Thorium-230	1992	2.05	pci/g	J	2.05	35.13%
067400	Thorium-230	1808	1.92	pci/g	J	1.92	32.43%
067313	Thorium-230	1720	1.89	pci/g	J	1.89	29.72%
067286	Thorium-230	1719	1.88	pci/g	-	1.88	27.02%
111484	Thorium-230	1982	1.76	pci/g	-	1.76	24.32%
115389	Thorium-230	11041	1.74	pci/g	-	1.74	18.91%
067275	Thorium-230	1718	1.74	pci/g	J	1.74	18.91%
115357	Thorium-230	1987	1.69	pci/g	-	1.69	16.21%
111466	Thorium-230	1984	1.51	pci/g	-	1.51	13.51%
115371	Thorium-230	11037	1.5	pci/g	J	1.5	10.81%
067230	Thorium-230	1721	1.37	pci/g	J	1.37	8.10%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111303	Thorium-230	SWL-SS-06	1.19	pci/g	-	1.19	5.40%
115319	Thorium-230	1991	1.16	pci/g	J	1.16	2.70%
111304	Thorium-230	SWL-SS-07	0.939	pci/g	-	0.939	0.00%

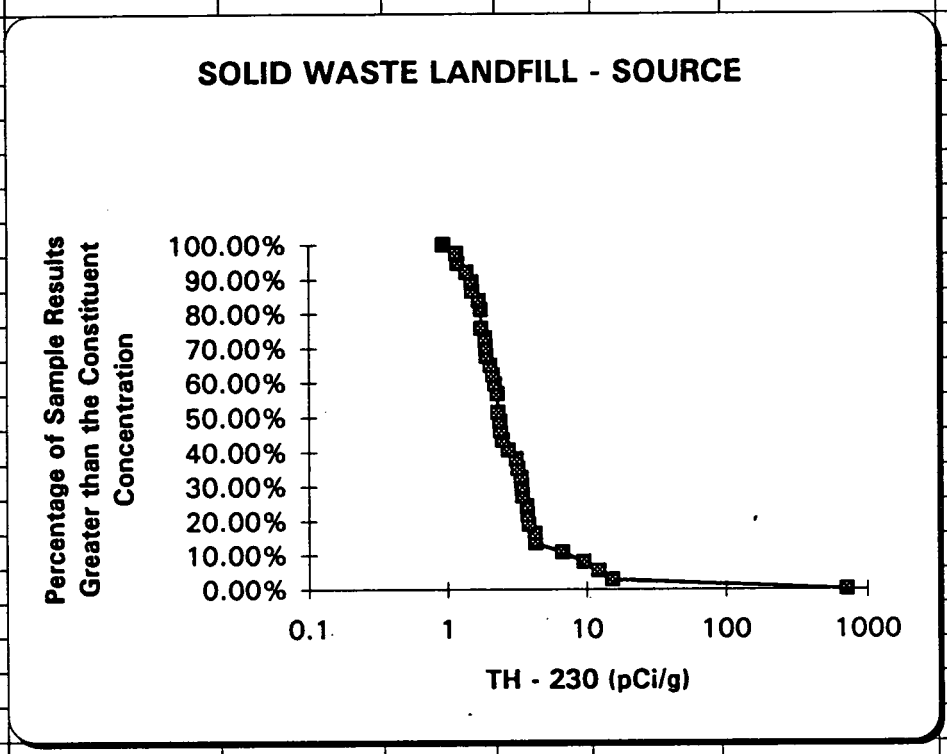

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Thorium-232	11036	8.22	pci/g	-	8.22	100.00%
067393	Thorium-232	1808	3.59	pci/g	-	3.59	97.05%
111300	Thorium-232	SWL-SS-04	2.5	pci/g	-	2.5	94.11%
067266	Thorium-232	1718	2.22	pci/g	-	2.22	91.17%
111476	Thorium-232	1983	2.07	pci/g	-	2.07	88.23%
115350	Thorium-232	1988	1.96	pci/g	-	1.96	85.29%
115389	Thorium-232	11041	1.75	pci/g	-	1.75	82.35%
067718	Thorium-232	1888	1.58	pci/g	-	1.58	79.41%
115329	Thorium-232	1990	1.37	pci/g	J	1.37	76.47%
115343	Thorium-232	1992	1.32	pci/g	J	1.32	73.52%
067275	Thorium-232	1718	1.25	pci/g	-	1.25	67.64%
111301	Thorium-232	SWL-SS-05	1.25	pci/g	-	1.25	67.64%
067257	Thorium-232	1722	1.2	pci/g	J	1.2	64.70%
067398	Thorium-232	1808	1.12	pci/g	-	1.12	61.76%
111307	Thorium-232	SWL-SS-09	1.07	pci/g	-	1.07	55.88%
115357	Thorium-232	1987	1.07	pci/g	-	1.07	55.88%
111298	Thorium-232	SWL-SS-03	1.04	pci/g	-	1.04	50.00%
111492	Thorium-232	SWL-SS-08	1.04	pci/g	J	1.04	50.00%
111484	Thorium-232	1982	1.02	pci/g	-	1.02	47.05%
115371	Thorium-232	11037	1	pci/g	J	1	44.11%
111297	Thorium-232	SWL-SS-02	0.981	pci/g	-	0.981	41.17%
115319	Thorium-232	1991	0.96	pci/g	J	0.96	38.23%
115339	Thorium-232	1993	0.88	pci/g	-	0.88	35.29%
111477	Thorium-232	1983	0.87	pci/g	-	0.87	32.35%
067258	Thorium-232	1722	0.85	pci/g	-	0.85	29.41%
111293	Thorium-232	SWL-SS-01	0.787	pci/g	-	0.787	26.47%
111466	Thorium-232	1984	0.78	pci/g	-	0.78	23.52%
115384	Thorium-232	11039	0.76	pci/g	J	0.76	20.58%
111303	Thorium-232	SWL-SS-06	0.742	pci/g	-	0.742	17.64%
067230	Thorium-232	1721	0.711	pci/g	-	0.711	14.70%
111441	Thorium-232	1985	0.66	pci/g	-	0.66	11.76%
067286	Thorium-232	1719	0.64	pci/g	-	0.64	8.82%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111304	Thorium-232	SWL-SS-07	0.601	pci/g	-	0.601	5.88%
067251	Thorium-232	1722	1	pci/g	U	0.5	2.94%
067400	Thorium-232	1808	0.6	pci/g	U	0.3	0.00%

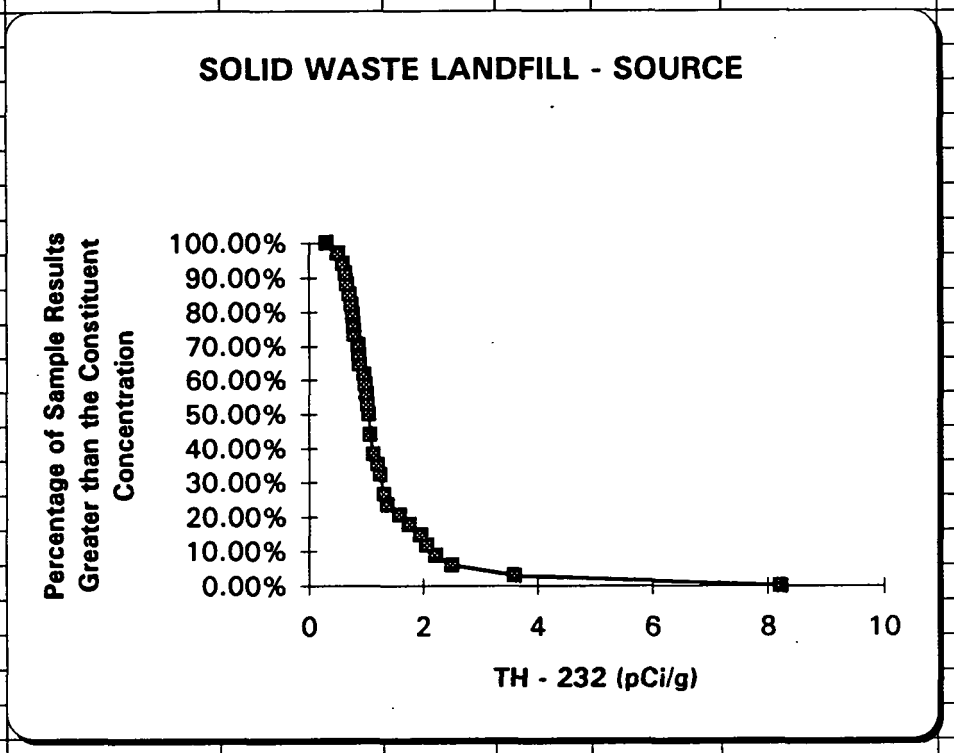

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Uranium, Total	11036	1770	mg/kg	-	1770	100.00%
067251	Uranium, Total	1722	940	mg/kg	J	940	97.61%
115329	Uranium, Total	1990	446	mg/kg	-	446	95.23%
067292	Uranium, Total	1719	393	mg/kg	J	393	92.85%
115384	Uranium, Total	11039	375	mg/kg	-	375	90.47%
111298	Uranium, Total	SWL-SS-03	194	mg/kg	-	194	88.09%
115343	Uranium, Total	1992	191	mg/kg	-	191	85.71%
067306	Uranium, Total	1720	150	mg/kg	J	150	83.33%
067258	Uranium, Total	1722	146	mg/kg	-	146	80.95%
111301	Uranium, Total	SWL-SS-05	143	mg/kg	-	143	78.57%
067275	Uranium, Total	1718	124	mg/kg	J	124	76.19%
111297	Uranium, Total	SWL-SS-02	114	mg/kg	-	114	73.80%
115350	Uranium, Total	1988	109	mg/kg	-	109	71.42%
111492	Uranium, Total	SWL-SS-08	97	mg/kg	-	97	69.04%
111476	Uranium, Total	1983	94.3	mg/kg	-	94.3	66.66%
111300	Uranium, Total	SWL-SS-04	90.8	mg/kg	-	90.8	64.28%
067266	Uranium, Total	1718	67.2	mg/kg	J	67.2	61.90%
067398	Uranium, Total	1808	66.8	mg/kg	J	66.8	59.52%
111484	Uranium, Total	1982	64.8	mg/kg	-	64.8	57.14%
111441	Uranium, Total	1985	62.3	mg/kg	-	62.3	54.76%
115389	Uranium, Total	11041	40.7	mg/kg	J	40.7	52.38%
111293	Uranium, Total	SWL-SS-01	39.8	mg/kg	-	39.8	50.00%
115339	Uranium, Total	1993	38.9	mg/kg	-	38.9	47.61%
111477	Uranium, Total	1983	36.8	mg/kg	-	36.8	45.23%
115362	Uranium, Total	1989	33.5	mg/kg	-	33.5	42.85%
115357	Uranium, Total	1987	28.8	mg/kg	-	28.8	40.47%
111307	Uranium, Total	SWL-SS-09	27.5	mg/kg	J	27.5	38.09%
115319	Uranium, Total	1991	25.4	mg/kg	J	25.4	35.71%
111310	Uranium, Total	SWL-SS-11	19.5	mg/kg	J	19.5	33.33%
067718	Uranium, Total	1888	19	mg/kg	J	19	30.95%
111312	Uranium, Total	SWL-SS-12	18.7	mg/kg	-	18.7	28.57%
067257	Uranium, Total	1722	17.5	mg/kg	J	17.5	26.19%
111466	Uranium, Total	1984	13.3	mg/kg	J	13.3	23.80%
067310	Uranium, Total	1720	13	mg/kg	J	13	21.42%
067286	Uranium, Total	1719	10.6	mg/kg	J	10.6	19.04%
111309	Uranium, Total	SWL-SS-10	10.5	mg/kg	J	10.5	16.66%
111303	Uranium, Total	SWL-SS-06	9.77	mg/kg	J	9.77	14.28%
115392	Uranium, Total	11040	8.49	mg/kg	J	8.49	11.90%
111304	Uranium, Total	SWL-SS-07	6.86	mg/kg	J	6.86	9.52%
067230	Uranium, Total	1721	6.7	mg/kg	-	6.7	7.14%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067313	Uranium, Total	1720	5.83	mg/kg	J	5.83	4.76%
115371	Uranium, Total	11037	5.01	mg/kg	J	5.01	2.38%
067400	Uranium, Total	1808	3.21	mg/kg	J	3.21	0.00%

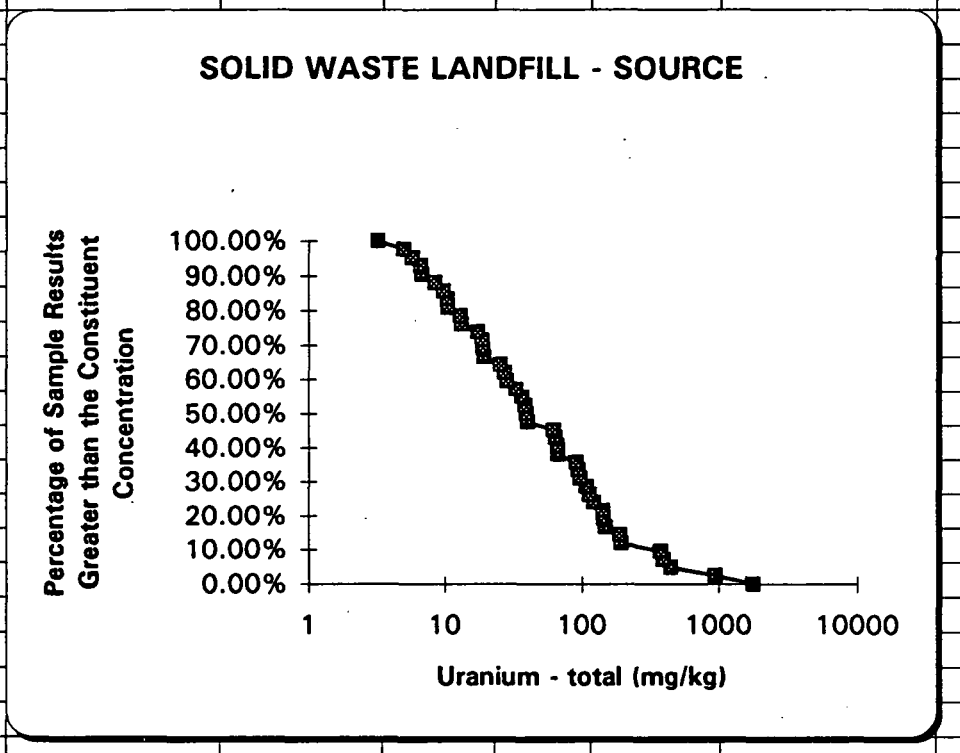

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Uranium-234	11036	553	pci/g	-	553	100.00%
067251	Uranium-234	1722	334	pci/g	J	334	97.67%
115384	Uranium-234	11039	97	pci/g	J	97	95.34%
115329	Uranium-234	1990	71.2	pci/g	-	71.2	93.02%
111301	Uranium-234	SWL-SS-05	48.9	pci/g	-	48.9	90.69%
111298	Uranium-234	SWL-SS-03	33.1	pci/g	-	33.1	88.37%
111476	Uranium-234	1983	32	pci/g	-	32	86.04%
067258	Uranium-234	1722	30.6	pci/g	-	30.6	83.72%
115350	Uranium-234	1988	24.6	pci/g	-	24.6	81.39%
067266	Uranium-234	1718	23.3	pci/g	J	23.3	79.06%
111300	Uranium-234	SWL-SS-04	22.2	pci/g	-	22.2	76.74%
067292	Uranium-234	1719	20.5	pci/g	-	20.5	74.41%
067306	Uranium-234	1720	18.5	pci/g	J	18.5	72.09%
115343	Uranium-234	1992	18.2	pci/g	-	18.2	69.76%
067393	Uranium-234	1808	17.6	pci/g	J	17.6	67.44%
111297	Uranium-234	SWL-SS-02	13.5	pci/g	-	13.5	65.11%
111492	Uranium-234	SWL-SS-08	12.4	pci/g	-	12.4	62.79%
111441	Uranium-234	1985	11.57	pci/g	-	11.57	60.46%
111484	Uranium-234	1982	11.3	pci/g	-	11.3	58.13%
067275	Uranium-234	1718	8.7	pci/g	J	8.7	55.81%
115389	Uranium-234	11041	8.27	pci/g	J	8.27	53.48%
115339	Uranium-234	1993	7.33	pci/g	-	7.33	51.16%
111307	Uranium-234	SWL-SS-09	6.7	pci/g	-	6.7	48.83%
067398	Uranium-234	1808	6.26	pci/g	J	6.26	46.51%
111293	Uranium-234	SWL-SS-01	5.94	pci/g	-	5.94	44.18%
115362	Uranium-234	1989	5.66	pci/g	-	5.66	41.86%
067286	Uranium-234	1719	5.53	pci/g	-	5.53	39.53%
111312	Uranium-234	SWL-SS-12	5.46	pci/g	-	5.46	37.20%
111310	Uranium-234	SWL-SS-11	4.97	pci/g	-	4.97	34.88%
067257	Uranium-234	1722	4.51	pci/g	-	4.51	32.55%
067718	Uranium-234	1888	4.1	pci/g	-	4.1	30.23%
111477	Uranium-234	1983	3.7	pci/g	-	3.7	27.90%
115357	Uranium-234	1987	3.56	pci/g	-	3.56	25.58%
115319	Uranium-234	1991	2.61	pci/g	J	2.61	23.25%
111309	Uranium-234	SWL-SS-10	2.28	pci/g	-	2.28	20.93%
111303	Uranium-234	SWL-SS-06	1.83	pci/g	-	1.83	18.60%
111466	Uranium-234	1984	1.639	pci/g	J	1.639	16.27%
111304	Uranium-234	SWL-SS-07	1.43	pci/g	-	1.43	13.95%
067230	Uranium-234	1721	1.39	pci/g	J	1.39	11.62%
067310	Uranium-234	1720	1.35	pci/g	J	1.35	9.30%
115392	Uranium-234	11040	1.32	pci/g	J	1.32	6.97%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067313	Uranium-234	1720	1.24	pci/g	J	1.24	4.65%
115371	Uranium-234	11037	0.95	pci/g	-	0.95	2.32%
067400	Uranium-234	1808	0.924	pci/g	J	0.924	0.00%

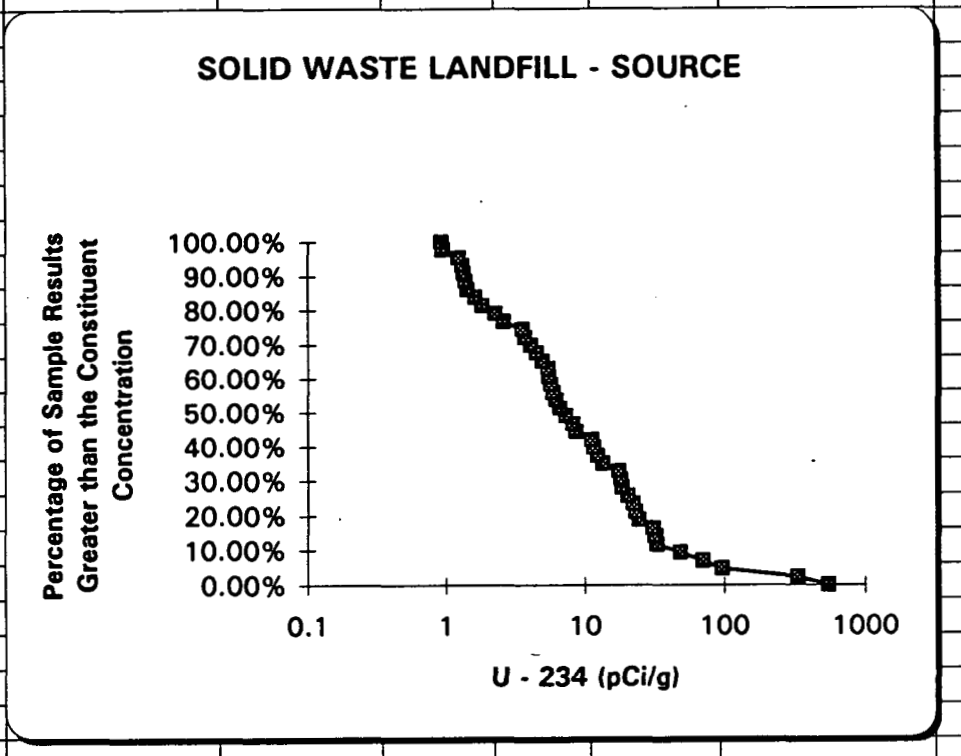

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Uranium-235/236	11036	28.9	pci/g	-	28.9	100.00%
067251	Uranium-235/236	1722	22.4	pci/g	J	22.4	97.67%
115329	Uranium-235/236	1990	8.04	pci/g	-	8.04	95.34%
115384	Uranium-235/236	11039	5.72	pci/g	J	5.72	93.02%
067292	Uranium-235/236	1719	4.5	pci/g	-	4.5	90.69%
111301	Uranium-235/236	SWL-SS-05	3.33	pci/g	-	3.33	88.37%
067258	Uranium-235/236	1722	2.47	pci/g	-	2.47	86.04%
111298	Uranium-235/236	SWL-SS-03	1.92	pci/g	-	1.92	83.72%
111476	Uranium-235/236	1983	1.66	pci/g	-	1.66	81.39%
067266	Uranium-235/236	1718	1.65	pci/g	J	1.65	79.06%
115350	Uranium-235/236	1988	1.43	pci/g	-	1.43	76.74%
067306	Uranium-235/236	1720	1.27	pci/g	J	1.27	74.41%
111300	Uranium-235/236	SWL-SS-04	1.26	pci/g	-	1.26	72.09%
067286	Uranium-235/236	1719	1.23	pci/g	-	1.23	69.76%
067393	Uranium-235/236	1808	1.17	pci/g	J	1.17	67.44%
115343	Uranium-235/236	1992	1.14	pci/g	-	1.14	65.11%
067275	Uranium-235/236	1718	1.13	pci/g	J	1.13	62.79%
111297	Uranium-235/236	SWL-SS-02	0.816	pci/g	-	0.816	60.46%
111492	Uranium-235/236	SWL-SS-08	0.809	pci/g	-	0.809	58.13%
111441	Uranium-235/236	1985	0.68	pci/g	-	0.68	55.81%
067398	Uranium-235/236	1808	0.606	pci/g	J	0.606	53.48%
111293	Uranium-235/236	SWL-SS-01	0.512	pci/g	J	0.512	51.16%
111307	Uranium-235/236	SWL-SS-09	0.398	pci/g	J	0.398	48.83%
115339	Uranium-235/236	1993	0.382	pci/g	J	0.382	44.18%
115389	Uranium-235/236	11041	0.382	pci/g	J	0.382	44.18%
115362	Uranium-235/236	1989	0.37	pci/g	J	0.37	41.86%
111312	Uranium-235/236	SWL-SS-12	0.346	pci/g	J	0.346	39.53%
115357	Uranium-235/236	1987	0.301	pci/g	J	0.301	37.20%
067257	Uranium-235/236	1722	0.6	pci/g	U	0.3	20.93%
067718	Uranium-235/236	1888	0.6	pci/g	U	0.3	20.93%
067230	Uranium-235/236	1721	0.6	pci/g	UJ	0.3	20.93%
067310	Uranium-235/236	1720	0.6	pci/g	UJ	0.3	20.93%
067313	Uranium-235/236	1720	0.6	pci/g	UJ	0.3	20.93%
067400	Uranium-235/236	1808	0.6	pci/g	UJ	0.3	20.93%
111484	Uranium-235/236	1982	0.6	pci/g	UJ	0.3	20.93%
111310	Uranium-235/236	SWL-SS-11	0.288	pci/g	-	0.288	18.60%
111477	Uranium-235/236	1983	0.22	pci/g	J	0.22	16.27%
115319	Uranium-235/236	1991	0.2	pci/g	J	0.2	13.95%
111303	Uranium-235/236	SWL-SS-06	0.12	pci/g	J	0.12	9.30%
111309	Uranium-235/236	SWL-SS-10	0.12	pci/g	J	0.12	9.30%
115392	Uranium-235/236	11040	0.1	pci/g	J	0.1	6.97%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111466	Uranium-235/236	1984	0.093	pci/g	J	0.093	4.65%
111304	Uranium-235/236	SWL-SS-07	0.0764	pci/g	J	0.0764	2.32%
115371	Uranium-235/236	11037	0.06	pci/g	J	0.06	0.00%

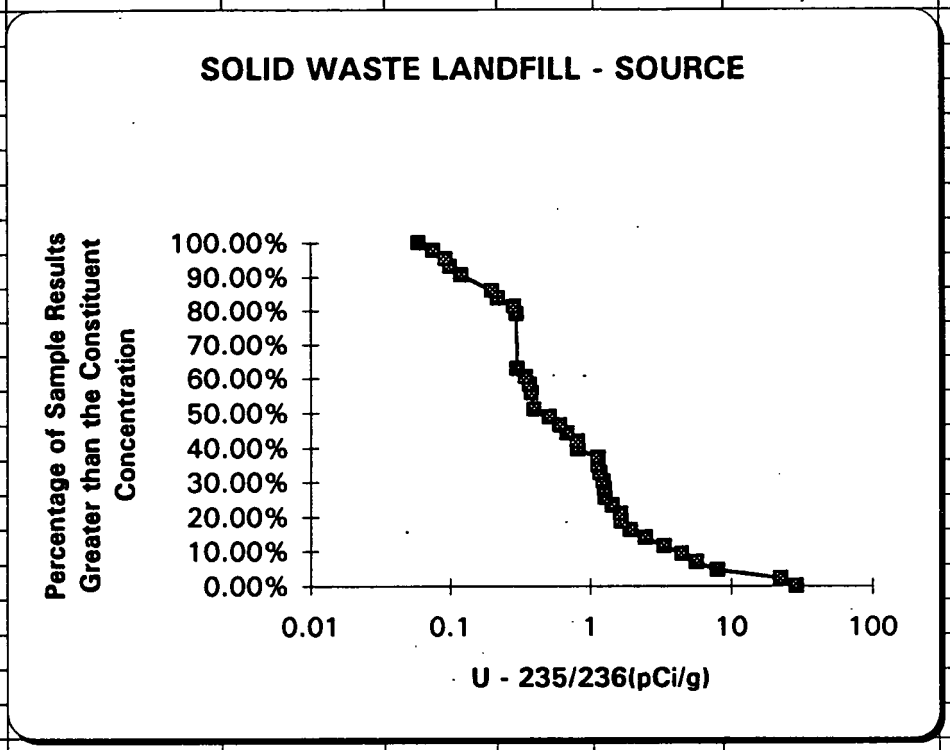

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Uranium-238	11036	577	pci/g	-	577	100.00%
067251	Uranium-238	1722	420	pci/g	-	420	97.67%
115329	Uranium-238	1990	170	pci/g	-	170	95.34%
067292	Uranium-238	1719	141	pci/g	-	141	93.02%
115384	Uranium-238	11039	119	pci/g	J	119	90.69%
111298	Uranium-238	SWL-SS-03	63.8	pci/g	-	63.8	88.37%
115343	Uranium-238	1992	60.4	pci/g	-	60.4	86.04%
111301	Uranium-238	SWL-SS-05	49.4	pci/g	-	49.4	83.72%
067258	Uranium-238	1722	47.7	pci/g	-	47.7	81.39%
067306	Uranium-238	1720	45.2	pci/g	-	45.2	79.06%
067275	Uranium-238	1718	40.8	pci/g	-	40.8	76.74%
115350	Uranium-238	1988	37.8	pci/g	-	37.8	74.41%
111297	Uranium-238	SWL-SS-02	34.6	pci/g	-	34.6	72.09%
111476	Uranium-238	1983	30.3	pci/g	-	30.3	69.76%
111300	Uranium-238	SWL-SS-04	29.4	pci/g	-	29.4	67.44%
111492	Uranium-238	SWL-SS-08	26.9	pci/g	-	26.9	65.11%
067266	Uranium-238	1718	22.1	pci/g	-	22.1	62.79%
067398	Uranium-238	1808	21	pci/g	-	21	60.46%
111484	Uranium-238	1982	20.3	pci/g	-	20.3	58.13%
111441	Uranium-238	1985	19.77	pci/g	-	19.77	55.81%
067393	Uranium-238	1808	17.3	pci/g	-	17.3	53.48%
115339	Uranium-238	1993	15.3	pci/g	-	15.3	51.16%
111293	Uranium-238	SWL-SS-01	13.6	pci/g	-	13.6	48.83%
115389	Uranium-238	11041	12.5	pci/g	J	12.5	46.51%
111477	Uranium-238	1983	10.9	pci/g	-	10.9	44.18%
115362	Uranium-238	1989	10.6	pci/g	-	10.6	41.86%
115357	Uranium-238	1987	9.35	pci/g	-	9.35	39.53%
067286	Uranium-238	1719	8.66	pci/g	-	8.66	37.20%
111307	Uranium-238	SWL-SS-09	8.21	pci/g	-	8.21	34.88%
111310	Uranium-238	SWL-SS-11	6.68	pci/g	-	6.68	32.55%
067257	Uranium-238	1722	6.53	pci/g	-	6.53	30.23%
115319	Uranium-238	1991	6.27	pci/g	J	6.27	27.90%
111312	Uranium-238	SWL-SS-12	5.58	pci/g	-	5.58	25.58%
067718	Uranium-238	1888	5.3	pci/g	-	5.3	23.25%
067310	Uranium-238	1720	3.54	pci/g	-	3.54	20.93%
111309	Uranium-238	SWL-SS-10	2.9	pci/g	-	2.9	18.60%
111303	Uranium-238	SWL-SS-06	2.43	pci/g	-	2.43	16.27%
111304	Uranium-238	SWL-SS-07	2.34	pci/g	-	2.34	13.95%
067230	Uranium-238	1721	2.33	pci/g	-	2.33	11.62%
115392	Uranium-238	11040	1.84	pci/g	J	1.84	9.30%
067313	Uranium-238	1720	1.81	pci/g	-	1.81	6.97%

TABLE A.2-13
SOLID WASTE LANDFILL - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111466	Uranium-238	1984	1.73	pci/g	J	1.73	4.65%
115371	Uranium-238	11037	1.19	pci/g	-	1.19	2.32%
067400	Uranium-238	1808	1.08	pci/g	-	1.08	0.00%

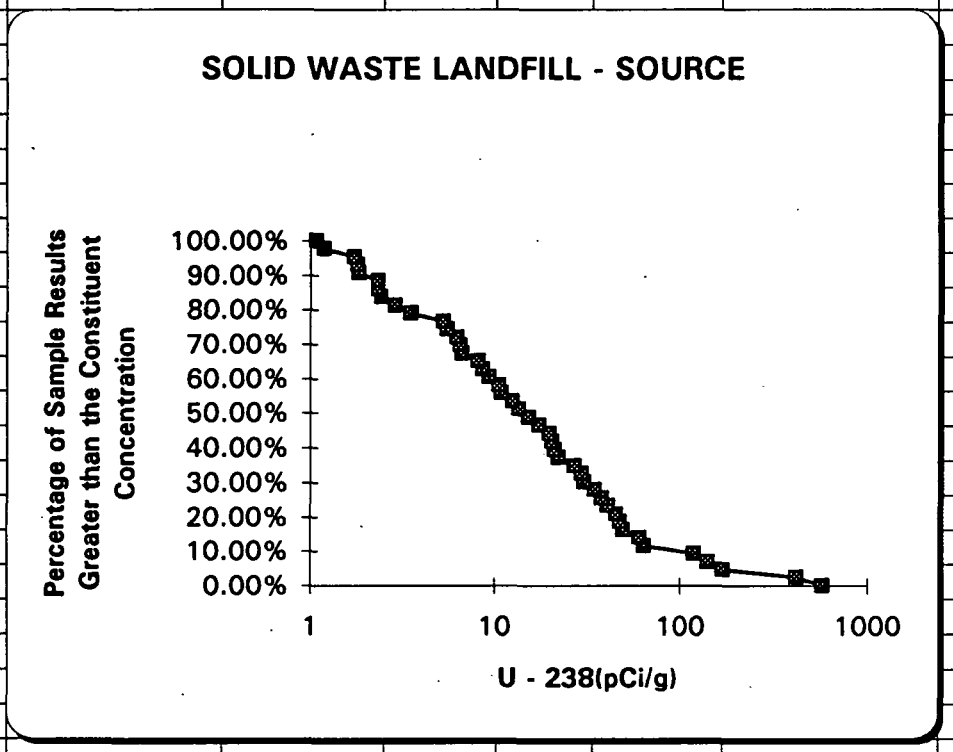

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
67714	Antimony	1888	22	mg/kg	J	22	100.00%
67311	Antimony	1720	16.4	mg/kg	J	16.4	97.00%
67717	Antimony	1888	14.8	mg/kg	J	14.8	94.10%
67394	Antimony	1808	10.6	mg/kg	J	10.6	91.10%
67396	Antimony	1808	10.4	mg/kg	J	10.4	88.20%
67287	Antimony	1719	4.2	mg/kg	-	4.2	85.20%
67307	Antimony	1720	7.1	mg/kg	UJ	3.55	82.30%
67250	Antimony	1722	6.6	mg/kg	UJ	3.3	79.40%
115357	Antimony	1987	1.9	mg/kg	UJ	0.95	76.40%
115350	Antimony	1988	1.4	mg/kg	UJ	0.7	73.50%
115343	Antimony	1992	1.3	mg/kg	UJ	0.65	70.50%
111293	Antimony	SWL-SS-01	1.2	mg/kg	UJ	0.6	61.70%
111301	Antimony	SWL-SS-05	1.2	mg/kg	UJ	0.6	61.70%
111307	Antimony	SWL-SS-09	1.2	mg/kg	UJ	0.6	61.70%
111304	Antimony	SWL-SS-07	1.1	mg/kg	UJ	0.55	50.00%
111309	Antimony	SWL-SS-10	1.1	mg/kg	UJ	0.55	50.00%
115371	Antimony	11037	1.1	mg/kg	UJ	0.55	50.00%
115392	Antimony	11040	1.1	mg/kg	UJ	0.55	50.00%
111310	Antimony	SWL-SS-11	1	mg/kg	UJ	0.5	44.10%
115384	Antimony	11039	1	mg/kg	UJ	0.5	44.10%
111300	Antimony	SWL-SS-04	0.96	mg/kg	UJ	0.48	38.20%
115329	Antimony	1990	0.96	mg/kg	UJ	0.48	38.20%
111298	Antimony	SWL-SS-03	0.93	mg/kg	UJ	0.465	35.20%
111297	Antimony	SWL-SS-02	0.9	mg/kg	UJ	0.45	32.30%
111492	Antimony	SWL-SS-08	0.89	mg/kg	UJ	0.445	26.40%
115376	Antimony	11038	0.89	mg/kg	UJ	0.445	26.40%
115381	Antimony	11036	0.87	mg/kg	UJ	0.435	23.50%
111312	Antimony	SWL-SS-12	0.85	mg/kg	UJ	0.425	17.60%
115362	Antimony	1989	0.85	mg/kg	UJ	0.425	17.60%
111303	Antimony	SWL-SS-06	0.84	mg/kg	UJ	0.42	14.70%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115389	Antimony	11041	0.8	mg/kg	UJ	0.4	11.70%
115339	Antimony	1993	0.63	mg/kg	UJ	0.315	8.80%
111466	Antimony	1984	0.53	mg/kg	UJ	0.265	5.80%
115319	Antimony	1991	0.45	mg/kg	UJ	0.225	2.90%
111484	Antimony	1982	0.22	mg/kg	UJ	0.11	.00%

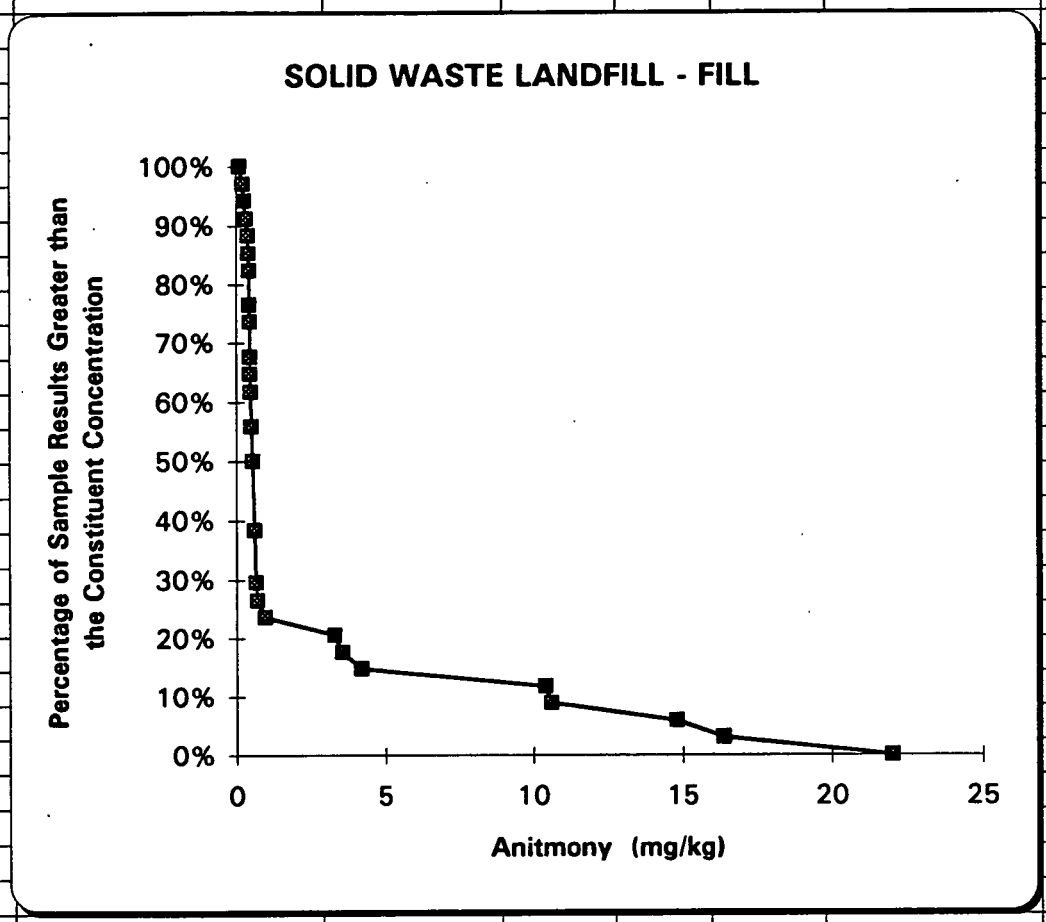

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115319	Arsenic	1991	13.9	mg/kg	-	13.9	100.00%
067717	Arsenic	1888	12.5	mg/kg	-	12.5	97.36%
067714	Arsenic	1888	9.9	mg/kg	-	9.9	94.73%
115343	Arsenic	1992	8.9	mg/kg	-	8.9	92.10%
111301	Arsenic	SWL-SS-05	8.3	mg/kg	-	8.3	89.47%
115376	Arsenic	11038	8.1	mg/kg	-	8.1	86.84%
115339	Arsenic	1993	8	mg/kg	-	8	81.57%
115357	Arsenic	1987	8	mg/kg	-	8	81.57%
111484	Arsenic	1982	7.5	mg/kg	-	7.5	78.94%
111452	Arsenic	1986	7.4	mg/kg	J	7.4	76.31%
111307	Arsenic	SWL-SS-09	7	mg/kg	-	7	73.68%
067307	Arsenic	1720	6.8	mg/kg	-	6.8	71.05%
111297	Arsenic	SWL-SS-02	6.7	mg/kg	-	6.7	65.78%
115329	Arsenic	1990	6.7	mg/kg	-	6.7	65.78%
111293	Arsenic	SWL-SS-01	6.6	mg/kg	-	6.6	63.15%
111298	Arsenic	SWL-SS-03	6.4	mg/kg	-	6.4	60.52%
111492	Arsenic	SWL-SS-08	6.3	mg/kg	J	6.3	57.89%
111300	Arsenic	SWL-SS-04	6.1	mg/kg	-	6.1	52.63%
115350	Arsenic	1988	6.1	mg/kg	-	6.1	52.63%
111303	Arsenic	SWL-SS-06	6	mg/kg	-	6	50.00%
067311	Arsenic	1720	5.9	mg/kg	-	5.9	39.47%
115392	Arsenic	11040	5.9	mg/kg	-	5.9	39.47%
111441	Arsenic	1985	5.9	mg/kg	J	5.9	39.47%
111476	Arsenic	1983	5.9	mg/kg	J	5.9	39.47%
111310	Arsenic	SWL-SS-11	5.5	mg/kg	-	5.5	34.21%
115381	Arsenic	11036	5.5	mg/kg	J	5.5	34.21%
111304	Arsenic	SWL-SS-07	5.4	mg/kg	-	5.4	26.31%
115362	Arsenic	1989	5.4	mg/kg	-	5.4	26.31%
111477	Arsenic	1983	5.4	mg/kg	J	5.4	26.31%
067396	Arsenic	1808	5.3	mg/kg	-	5.3	23.68%
111466	Arsenic	1984	5.1	mg/kg	J	5.1	21.05%
067394	Arsenic	1808	5	mg/kg	-	5	15.78%
111309	Arsenic	SWL-SS-10	5	mg/kg	-	5	15.78%
115371	Arsenic	11037	4.9	mg/kg	-	4.9	13.15%
115389	Arsenic	11041	4.6	mg/kg	-	4.6	10.52%
111312	Arsenic	SWL-SS-12	4.4	mg/kg	-	4.4	5.26%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067287	Arsenic	1719	4.4	mg/kg	J	4.4	5.26%
115384	Arsenic	11039	3.5	mg/kg	-	3.5	2.63%
067250	Arsenic	1722	3.3	mg/kg	-	3.3	0.00%

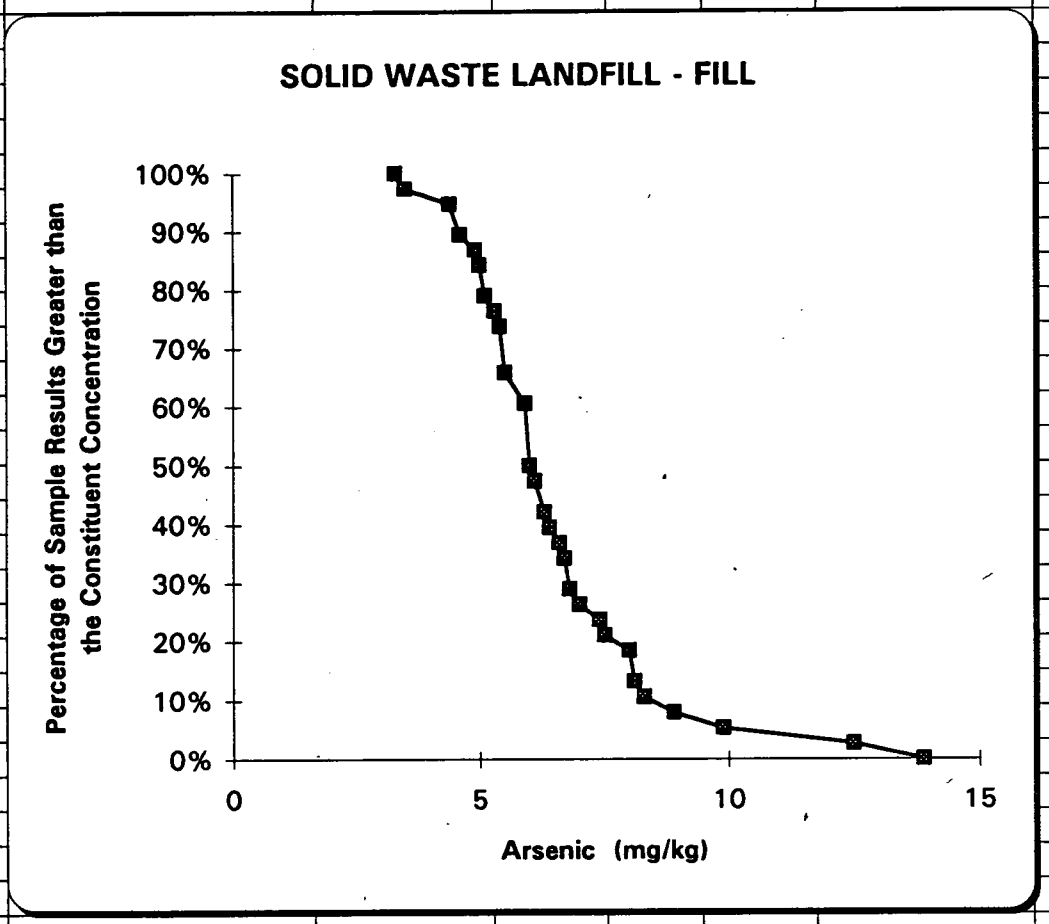

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115384	Benzo(a)anthracene	11039	310000	ug/kg	-	310000	100.00%
115389	Benzo(a)anthracene	11041	18000	ug/kg	-	18000	97.40%
67287	Benzo(a)anthracene	1719	7500	ug/kg	-	7500	94.80%
67396	Benzo(a)anthracene	1808	1100	ug/kg	J	1100	89.70%
111441	Benzo(a)anthracene	1985	1100	ug/kg	J	1100	89.70%
67394	Benzo(a)anthracene	1808	910	ug/kg	J	910	87.10%
111293	Benzo(a)anthracene	SWL-SS-01	880	ug/kg	J	880	84.60%
115357	Benzo(a)anthracene	1987	730	ug/kg	-	730	82.00%
67396	Benzo(a)anthracene	1808	600	ug/kg	J	600	79.40%
115339	Benzo(a)anthracene	1993	570	ug/kg	-	570	76.90%
115319	Benzo(a)anthracene	1991	560	ug/kg	-	560	74.30%
111452	Benzo(a)anthracene	1986	490	ug/kg	J	490	71.70%
115329	Benzo(a)anthracene	1990	460	ug/kg	-	460	69.20%
115350	Benzo(a)anthracene	1988	440	ug/kg	U	440	66.60%
67717	Benzo(a)anthracene	1888	410	ug/kg	U	410	64.10%
67714	Benzo(a)anthracene	1888	380	ug/kg	U	380	58.90%
115343	Benzo(a)anthracene	1992	380	ug/kg	J	380	58.90%
67250	Benzo(a)anthracene	1722	370	ug/kg	U	370	56.40%
111466	Benzo(a)anthracene	1984	360	ug/kg	U	360	53.80%
115392	Benzo(a)anthracene	11040	350	ug/kg	J	350	51.20%
115376	Benzo(a)anthracene	11038	300	ug/kg	J	300	48.70%
115381	Benzo(a)anthracene	11036	280	ug/kg	J	280	46.10%
111307	Benzo(a)anthracene	SWL-SS-09	460	ug/kg	UJ	230	43.50%
111303	Benzo(a)anthracene	SWL-SS-06	220	ug/kg	J	220	41.00%
111309	Benzo(a)anthracene	SWL-SS-10	420	ug/kg	UJ	210	38.40%
111297	Benzo(a)anthracene	SWL-SS-02	410	ug/kg	UJ	205	33.30%
111312	Benzo(a)anthracene	SWL-SS-12	410	ug/kg	UJ	205	33.30%
111310	Benzo(a)anthracene	SWL-SS-11	400	ug/kg	UJ	200	30.70%
111304	Benzo(a)anthracene	SWL-SS-07	390	ug/kg	UJ	195	28.20%
111484	Benzo(a)anthracene	1982	170	ug/kg	J	170	23.00%
115362	Benzo(a)anthracene	1989	170	ug/kg	J	170	23.00%
111300	Benzo(a)anthracene	SWL-SS-04	140	ug/kg	J	140	20.50%
67307	Benzo(a)anthracene	1720	130	ug/kg	J	130	17.90%
111298	Benzo(a)anthracene	SWL-SS-03	110	ug/kg	J	110	15.30%
111492	Benzo(a)anthracene	SWL-SS-08	79	ug/kg	J	79	12.80%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111477	Benzo(a)anthracene	1983	78	ug/kg	J	78	10.20%
111301	Benzo(a)anthracene	SWL-SS-05	55	ug/kg	J	55	7.60%
111476	Benzo(a)anthracene	1983	49	ug/kg	J	49	5.10%
115371	Benzo(a)anthracene	11037	48	ug/kg	J	48	2.50%
67311	Benzo(a)anthracene	1720	43	ug/kg	J	43	.00%

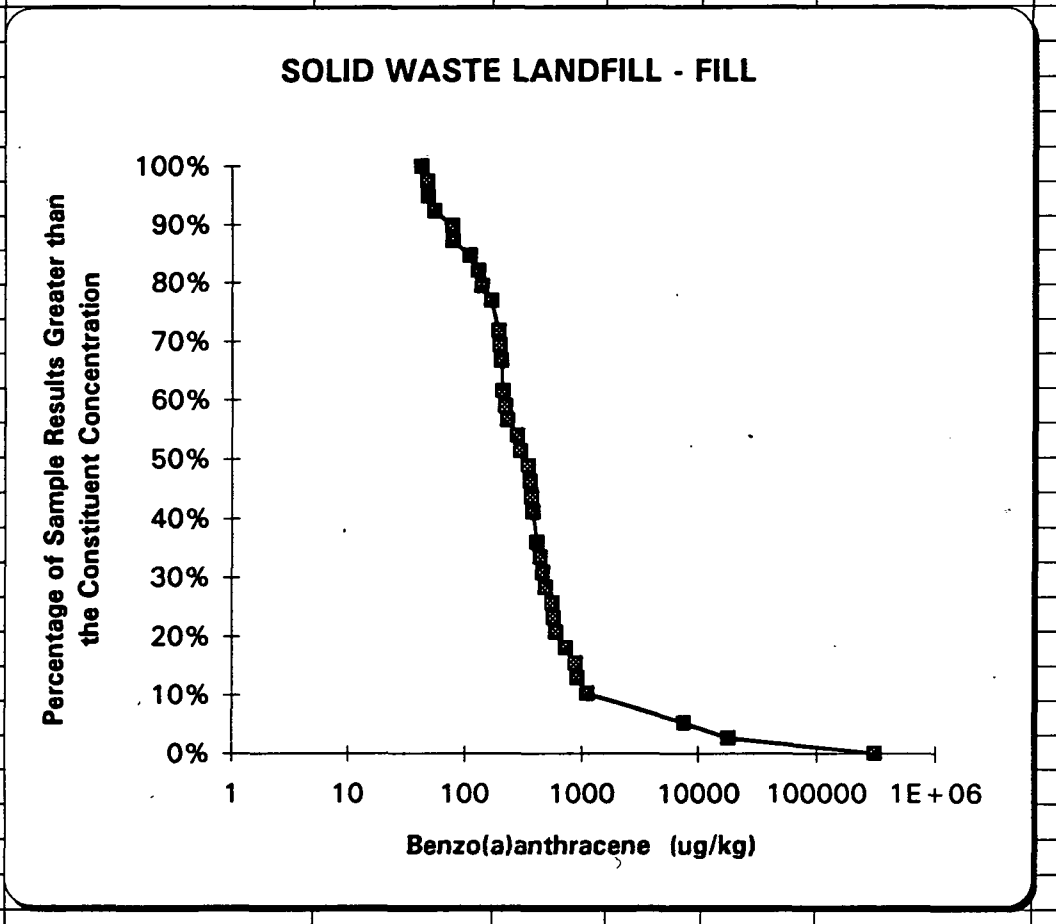

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115384	Benzo(a)pyrene	11039	260000	ug/kg	-	2.60E+05	100.00%
115389	Benzo(a)pyrene	11041	13000	ug/kg	-	1.30E+04	97.36%
067287	Benzo(a)pyrene	1719	8200	ug/kg	-	8.20E+03	94.73%
111441	Benzo(a)pyrene	1985	790	ug/kg	J	7.90E+02	92.10%
111293	Benzo(a)pyrene	SWL-SS-01	760	ug/kg	J	7.60E+02	89.47%
115357	Benzo(a)pyrene	1987	700	ug/kg	-	7.00E+02	84.21%
067394	Benzo(a)pyrene	1808	700	ug/kg	J	7.00E+02	84.21%
067396	Benzo(a)pyrene	1808	600	ug/kg	J	6.00E+02	81.57%
115339	Benzo(a)pyrene	1993	510	ug/kg	-	5.10E+02	76.31%
115343	Benzo(a)pyrene	1992	510	ug/kg	-	5.10E+02	76.31%
115319	Benzo(a)pyrene	1991	470	ug/kg	-	4.70E+02	73.68%
115329	Benzo(a)pyrene	1990	420	ug/kg	-	4.20E+02	71.05%
111452	Benzo(a)pyrene	1986	320	ug/kg	J	3.20E+02	65.78%
115392	Benzo(a)pyrene	11040	320	ug/kg	J	3.20E+02	65.78%
115376	Benzo(a)pyrene	11038	300	ug/kg	J	3.00E+02	63.15%
115381	Benzo(a)pyrene	11036	230	ug/kg	J	2.30E+02	57.89%
111307	Benzo(a)pyrene	SWL-SS-09	460	ug/kg	UJ	2.30E+02	57.89%
115350	Benzo(a)pyrene	1988	440	ug/kg	U	2.20E+02	55.26%
111309	Benzo(a)pyrene	SWL-SS-10	420	ug/kg	UJ	2.10E+02	52.63%
067311	Benzo(a)pyrene	1720	410	ug/kg	U	2.05E+02	39.47%
067717	Benzo(a)pyrene	1888	410	ug/kg	U	2.05E+02	39.47%
115371	Benzo(a)pyrene	11037	410	ug/kg	U	2.05E+02	39.47%
111297	Benzo(a)pyrene	SWL-SS-02	410	ug/kg	UJ	2.05E+02	39.47%
111312	Benzo(a)pyrene	SWL-SS-12	410	ug/kg	UJ	2.05E+02	39.47%
111310	Benzo(a)pyrene	SWL-SS-11	400	ug/kg	UJ	2.00E+02	36.84%
111304	Benzo(a)pyrene	SWL-SS-07	390	ug/kg	UJ	1.95E+02	34.21%
111303	Benzo(a)pyrene	SWL-SS-06	190	ug/kg	J	1.90E+02	28.94%
067714	Benzo(a)pyrene	1888	380	ug/kg	U	1.90E+02	28.94%
067250	Benzo(a)pyrene	1722	370	ug/kg	U	1.85E+02	26.31%
111466	Benzo(a)pyrene	1984	360	ug/kg	U	1.80E+02	23.68%
111300	Benzo(a)pyrene	SWL-SS-04	140	ug/kg	J	1.40E+02	21.05%
111484	Benzo(a)pyrene	1982	120	ug/kg	J	1.20E+02	18.42%
111298	Benzo(a)pyrene	SWL-SS-03	110	ug/kg	J	1.10E+02	13.15%
115362	Benzo(a)pyrene	1989	110	ug/kg	J	1.10E+02	13.15%
067307	Benzo(a)pyrene	1720	69	ug/kg	J	6.90E+01	10.52%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111492	Benzo(a)pyrene	SWL-SS-08	67	ug/kg	J	6.70E+01	7.89%
111477	Benzo(a)pyrene	1983	64	ug/kg	J	6.40E+01	5.26%
111301	Benzo(a)pyrene	SWL-SS-05	59	ug/kg	J	5.90E+01	2.63%
111476	Benzo(a)pyrene	1983	47	ug/kg	J	4.70E+01	0.00%

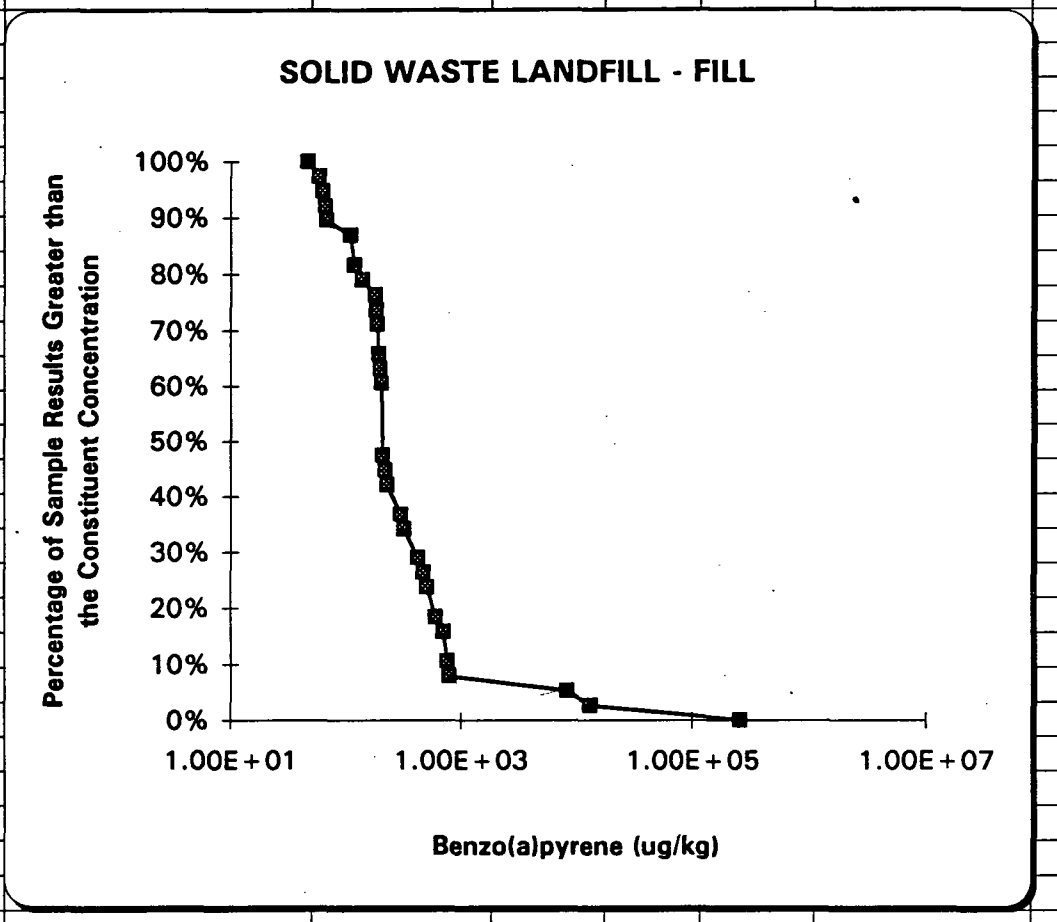

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TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115384	Benzo(b)fluoranthene	11039	220000	ug/kg	-	2.20E+05	100.00%
067287	Benzo(b)fluoranthene	1719	15000	ug/kg	-	1.50E+04	97.36%
115389	Benzo(b)fluoranthene	11041	3900	ug/kg	U	1.95E+03	94.73%
067394	Benzo(b)fluoranthene	1808	1500	ug/kg	J	1.50E+03	92.10%
115343	Benzo(b)fluoranthene	1992	1200	ug/kg	-	1.20E+03	89.47%
111441	Benzo(b)fluoranthene	1985	1100	ug/kg	J	1.10E+03	86.84%
115357	Benzo(b)fluoranthene	1987	910	ug/kg	-	9.10E+02	84.21%
111293	Benzo(b)fluoranthene	SWL-SS-01	710	ug/kg	J	7.10E+02	81.57%
115339	Benzo(b)fluoranthene	1993	630	ug/kg	-	6.30E+02	78.94%
067396	Benzo(b)fluoranthene	1808	560	ug/kg	J	5.60E+02	76.31%
115319	Benzo(b)fluoranthene	1991	540	ug/kg	-	5.40E+02	73.68%
115329	Benzo(b)fluoranthene	1990	530	ug/kg	-	5.30E+02	71.05%
111452	Benzo(b)fluoranthene	1986	480	ug/kg	J	4.80E+02	68.42%
115381	Benzo(b)fluoranthene	11036	340	ug/kg	J	3.40E+02	65.78%
115376	Benzo(b)fluoranthene	11038	300	ug/kg	J	3.00E+02	63.15%
115392	Benzo(b)fluoranthene	11040	290	ug/kg	J	2.90E+02	60.52%
111307	Benzo(b)fluoranthene	SWL-SS-09	460	ug/kg	UJ	2.30E+02	57.89%
115362	Benzo(b)fluoranthene	1989	220	ug/kg	J	2.20E+02	52.63%
115350	Benzo(b)fluoranthene	1988	440	ug/kg	U	2.20E+02	52.63%
111309	Benzo(b)fluoranthene	SWL-SS-10	420	ug/kg	UJ	2.10E+02	50.00%
067717	Benzo(b)fluoranthene	1888	410	ug/kg	U	2.05E+02	39.47%
111297	Benzo(b)fluoranthene	SWL-SS-02	410	ug/kg	UJ	2.05E+02	39.47%
111301	Benzo(b)fluoranthene	SWL-SS-05	410	ug/kg	UJ	2.05E+02	39.47%
111312	Benzo(b)fluoranthene	SWL-SS-12	410	ug/kg	UJ	2.05E+02	39.47%
111310	Benzo(b)fluoranthene	SWL-SS-11	400	ug/kg	UJ	2.00E+02	36.84%
111304	Benzo(b)fluoranthene	SWL-SS-07	390	ug/kg	UJ	1.95E+02	34.21%
067307	Benzo(b)fluoranthene	1720	190	ug/kg	J	1.90E+02	28.94%
067714	Benzo(b)fluoranthene	1888	380	ug/kg	U	1.90E+02	28.94%
067250	Benzo(b)fluoranthene	1722	370	ug/kg	U	1.85E+02	26.31%
111484	Benzo(b)fluoranthene	1982	180	ug/kg	J	1.80E+02	21.05%
111466	Benzo(b)fluoranthene	1984	360	ug/kg	U	1.80E+02	21.05%
111303	Benzo(b)fluoranthene	SWL-SS-06	150	ug/kg	J	1.50E+02	18.42%
111300	Benzo(b)fluoranthene	SWL-SS-04	140	ug/kg	J	1.40E+02	15.78%
111298	Benzo(b)fluoranthene	SWL-SS-03	96	ug/kg	J	9.60E+01	13.15%
115371	Benzo(b)fluoranthene	11037	67	ug/kg	J	6.70E+01	10.52%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111477	Benzo(b)fluoranthene	1983	66	ug/kg	J	6.60E+01	7.89%
111492	Benzo(b)fluoranthene	SWL-SS-08	64	ug/kg	J	6.40E+01	5.26%
067311	Benzo(b)fluoranthene	1720	54	ug/kg	J	5.40E+01	2.63%
111476	Benzo(b)fluoranthene	1983	49	ug/kg	J	4.90E+01	0.00%

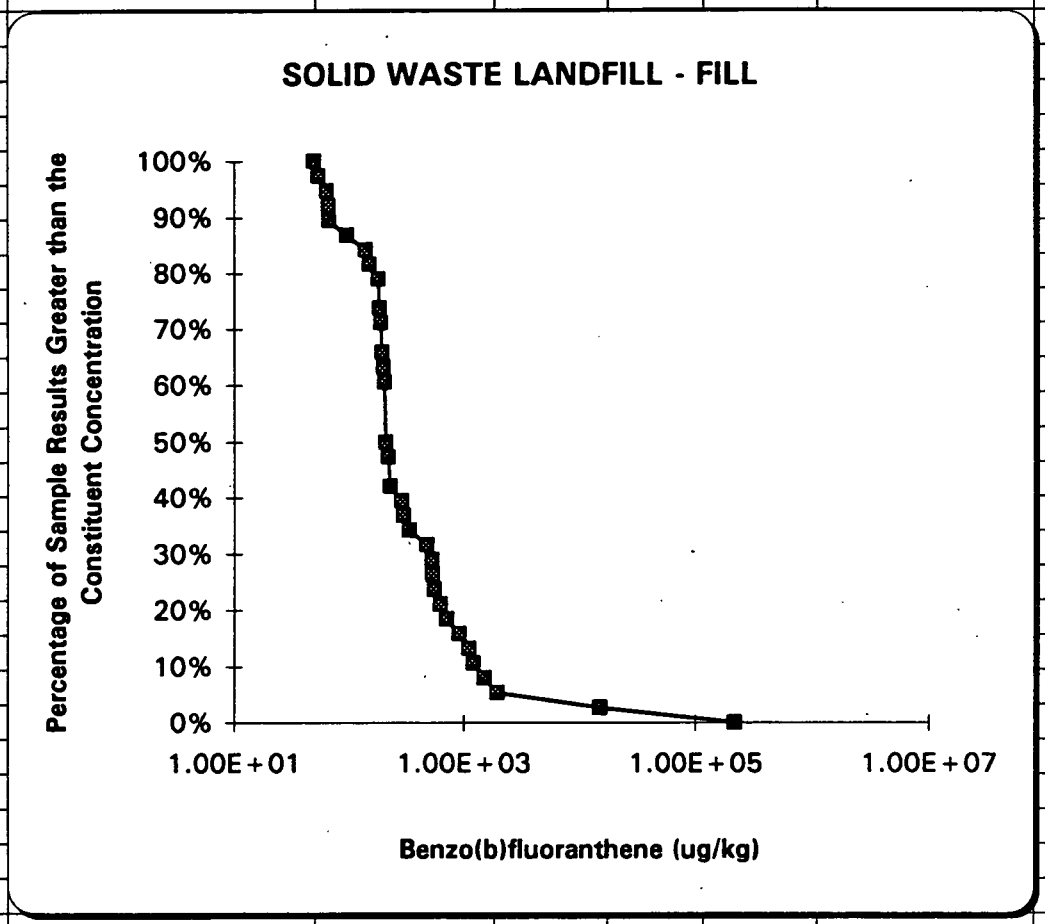

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111477	Beryllium	1983	1.8	mg/kg	-	1.8	100.00%
111476	Beryllium	1983	1.7	mg/kg	-	1.7	97.36%
067714	Beryllium	1888	1.6	mg/kg	-	1.6	89.47%
067717	Beryllium	1888	1.6	mg/kg	-	1.6	89.47%
111452	Beryllium	1986	1.6	mg/kg	-	1.6	89.47%
115343	Beryllium	1992	1.5	mg/kg	-	1.5	84.21%
115350	Beryllium	1988	1.5	mg/kg	-	1.5	84.21%
115329	Beryllium	1990	1.4	mg/kg	-	1.4	81.57%
111441	Beryllium	1985	1.3	mg/kg	-	1.3	73.68%
111466	Beryllium	1984	1.3	mg/kg	-	1.3	73.68%
115357	Beryllium	1987	1.3	mg/kg	-	1.3	73.68%
067307	Beryllium	1720	0.99	mg/kg	-	0.99	71.05%
111309	Beryllium	SWL-SS-10	0.97	mg/kg	-	0.97	68.42%
111484	Beryllium	1982	0.96	mg/kg	-	0.96	65.78%
067396	Beryllium	1808	0.88	mg/kg	-	0.88	63.15%
111307	Beryllium	SWL-SS-09	0.85	mg/kg	-	0.85	60.52%
067311	Beryllium	1720	0.84	mg/kg	-	0.84	57.89%
115371	Beryllium	11037	0.73	mg/kg	-	0.73	55.26%
111300	Beryllium	SWL-SS-04	0.72	mg/kg	-	0.72	50.00%
115339	Beryllium	1993	0.72	mg/kg	-	0.72	50.00%
067394	Beryllium	1808	0.71	mg/kg	-	0.71	47.36%
115319	Beryllium	1991	0.69	mg/kg	-	0.69	42.10%
115392	Beryllium	11040	0.69	mg/kg	-	0.69	42.10%
111312	Beryllium	SWL-SS-12	0.63	mg/kg	-	0.63	39.47%
067250	Beryllium	1722	0.59	mg/kg	-	0.59	36.84%
111301	Beryllium	SWL-SS-05	0.58	mg/kg	-	0.58	34.21%
111303	Beryllium	SWL-SS-06	0.57	mg/kg	-	0.57	31.57%
111297	Beryllium	SWL-SS-02	0.55	mg/kg	-	0.55	28.94%
111293	Beryllium	SWL-SS-01	0.53	mg/kg	-	0.53	26.31%
111304	Beryllium	SWL-SS-07	0.51	mg/kg	-	0.51	23.68%
111298	Beryllium	SWL-SS-03	0.48	mg/kg	-	0.48	21.05%
111310	Beryllium	SWL-SS-11	0.46	mg/kg	-	0.46	15.78%
111492	Beryllium	SWL-SS-08	0.46	mg/kg	-	0.46	15.78%
115381	Beryllium	11036	0.43	mg/kg	-	0.43	13.15%
115362	Beryllium	1989	0.4	mg/kg	-	0.4	10.52%
115389	Beryllium	11041	0.37	mg/kg	-	0.37	7.89%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115384	Beryllium	11039	0.41	mg/kg	U	0.205	5.26%
067287	Beryllium	1719	0.19	mg/kg	J	0.19	2.63%
115376	Beryllium	11038	0.36	mg/kg	U	0.18	0.00%

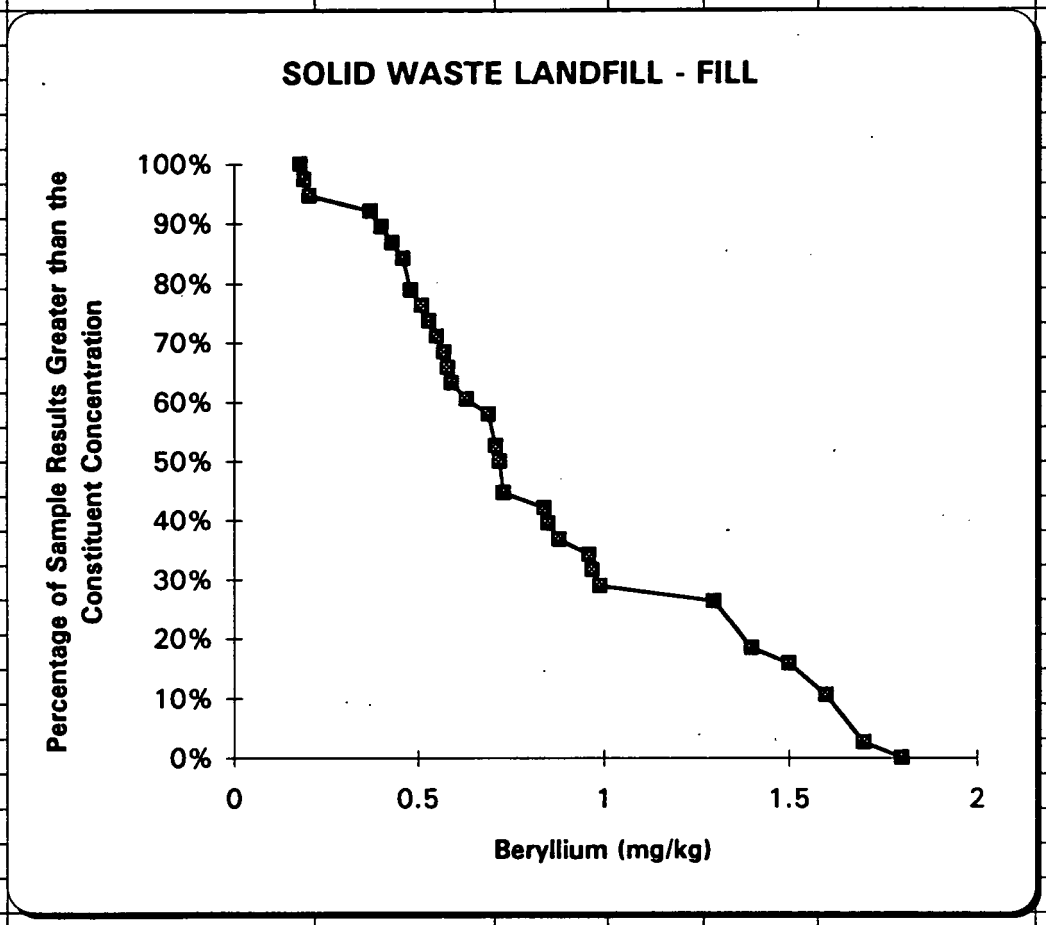

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115384	Carbazole	11039	89000	ug/kg	-	89000	100.00%
115389	Carbazole	11041	4200	ug/kg	-	4200	96.66%
115381	Carbazole	11036	760	ug/kg	UJ	380	93.33%
115357	Carbazole	1987	240	ug/kg	J	240	90.00%
111300	Carbazole	SWL-SS-04	460	ug/kg	UJ	230	83.33%
111307	Carbazole	SWL-SS-09	460	ug/kg	UJ	230	83.33%
115350	Carbazole	1988	440	ug/kg	U	220	80.00%
111309	Carbazole	SWL-SS-10	420	ug/kg	UJ	210	76.66%
115371	Carbazole	11037	410	ug/kg	U	205	60.00%
111297	Carbazole	SWL-SS-02	410	ug/kg	UJ	205	60.00%
111301	Carbazole	SWL-SS-05	410	ug/kg	UJ	205	60.00%
111303	Carbazole	SWL-SS-06	410	ug/kg	UJ	205	60.00%
111312	Carbazole	SWL-SS-12	410	ug/kg	UJ	205	60.00%
115339	Carbazole	1993	200	ug/kg	J	200	43.33%
111476	Carbazole	1983	400	ug/kg	U	200	43.33%
111492	Carbazole	SWL-SS-08	400	ug/kg	U	200	43.33%
115362	Carbazole	1989	400	ug/kg	U	200	43.33%
111310	Carbazole	SWL-SS-11	400	ug/kg	UJ	200	43.33%
111477	Carbazole	1983	390	ug/kg	U	195	30.00%
111484	Carbazole	1982	390	ug/kg	U	195	30.00%
111298	Carbazole	SWL-SS-03	390	ug/kg	UJ	195	30.00%
111304	Carbazole	SWL-SS-07	390	ug/kg	UJ	195	30.00%
115376	Carbazole	11038	380	ug/kg	U	190	26.66%
115329	Carbazole	1990	180	ug/kg	J	180	20.00%
111466	Carbazole	1984	360	ug/kg	U	180	20.00%
115319	Carbazole	1991	98	ug/kg	J	98	16.66%
111293	Carbazole	SWL-SS-01	77	ug/kg	J	77	13.33%
111452	Carbazole	1986	68	ug/kg	J	68	10.00%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111441	Carbazole	1985	67	ug/kg	J	67	6.66%
115343	Carbazole	1992	62	ug/kg	J	62	3.33%
115392	Carbazole	11040	58	ug/kg	J	58	0.00%

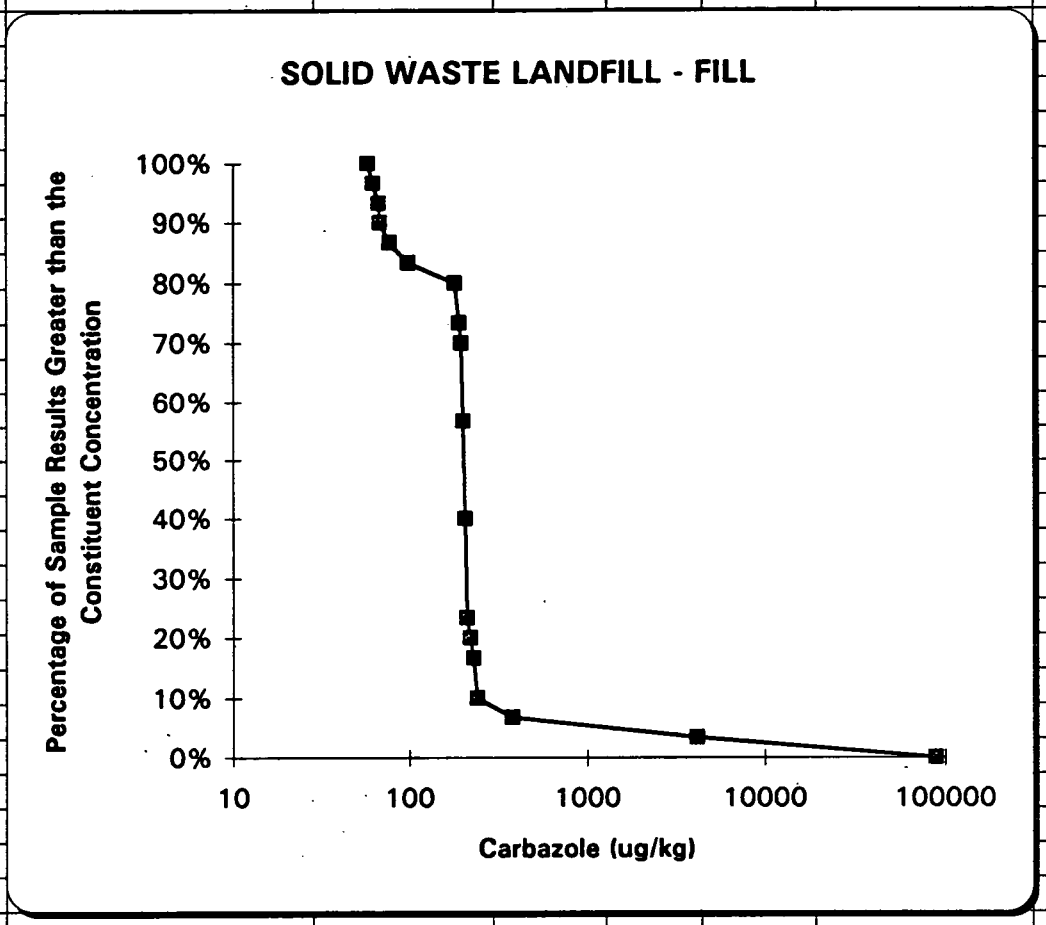

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115384	Dibenzo(a,h)anthracene	11039	79000	ug/kg	-	79000	100.00%
115389	Dibenzo(a,h)anthracene	11041	3000	ug/kg	J	3000	97.29%
115381	Dibenzo(a,h)anthracene	11036	760	ug/kg	UJ	380	94.59%
111441	Dibenzo(a,h)anthracene	1985	250	ug/kg	J	250	91.89%
111300	Dibenzo(a,h)anthracene	SWL-SS-04	460	ug/kg	UJ	230	86.48%
111307	Dibenzo(a,h)anthracene	SWL-SS-09	460	ug/kg	UJ	230	86.48%
115350	Dibenzo(a,h)anthracene	1988	440	ug/kg	U	220	83.78%
111309	Dibenzo(a,h)anthracene	SWL-SS-10	420	ug/kg	UJ	210	81.08%
067311	Dibenzo(a,h)anthracene	1720	410	ug/kg	U	205	62.16%
067717	Dibenzo(a,h)anthracene	1888	410	ug/kg	U	205	62.16%
115343	Dibenzo(a,h)anthracene	1992	410	ug/kg	U	205	62.16%
115371	Dibenzo(a,h)anthracene	11037	410	ug/kg	U	205	62.16%
111297	Dibenzo(a,h)anthracene	SWL-SS-02	410	ug/kg	UJ	205	62.16%
111301	Dibenzo(a,h)anthracene	SWL-SS-05	410	ug/kg	UJ	205	62.16%
111312	Dibenzo(a,h)anthracene	SWL-SS-12	410	ug/kg	UJ	205	62.16%
111293	Dibenzo(a,h)anthracene	SWL-SS-01	200	ug/kg	J	200	48.64%
111476	Dibenzo(a,h)anthracene	1983	400	ug/kg	U	200	48.64%
111492	Dibenzo(a,h)anthracene	SWL-SS-08	400	ug/kg	U	200	48.64%
115362	Dibenzo(a,h)anthracene	1989	400	ug/kg	U	200	48.64%
111310	Dibenzo(a,h)anthracene	SWL-SS-11	400	ug/kg	UJ	200	48.64%
111477	Dibenzo(a,h)anthracene	1983	390	ug/kg	U	195	37.83%
115339	Dibenzo(a,h)anthracene	1993	390	ug/kg	U	195	37.83%
111298	Dibenzo(a,h)anthracene	SWL-SS-03	390	ug/kg	UJ	195	37.83%
111304	Dibenzo(a,h)anthracene	SWL-SS-07	390	ug/kg	UJ	195	37.83%
067714	Dibenzo(a,h)anthracene	1888	380	ug/kg	U	190	35.13%
067250	Dibenzo(a,h)anthracene	1722	370	ug/kg	U	185	32.43%
067396	Dibenzo(a,h)anthracene	1808	180	ug/kg	J	180	27.02%
111466	Dibenzo(a,h)anthracene	1984	360	ug/kg	U	180	27.02%
115319	Dibenzo(a,h)anthracene	1991	140	ug/kg	J	140	24.32%
111452	Dibenzo(a,h)anthracene	1986	120	ug/kg	J	120	21.62%
115357	Dibenzo(a,h)anthracene	1987	110	ug/kg	J	110	18.91%
115376	Dibenzo(a,h)anthracene	11038	96	ug/kg	J	96	13.51%
115392	Dibenzo(a,h)anthracene	11040	96	ug/kg	J	96	13.51%
067394	Dibenzo(a,h)anthracene	1808	92	ug/kg	J	92	10.81%
115329	Dibenzo(a,h)anthracene	1990	68	ug/kg	J	68	8.10%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111303	Dibenzo(a,h)anthracene	SWL-SS-06	56	ug/kg	J	56	5.40%
067287	Dibenzo(a,h)anthracene	1719	49	ug/kg	J	49	2.70%
111484	Dibenzo(a,h)anthracene	1982	40	ug/kg	J	40	0.00%

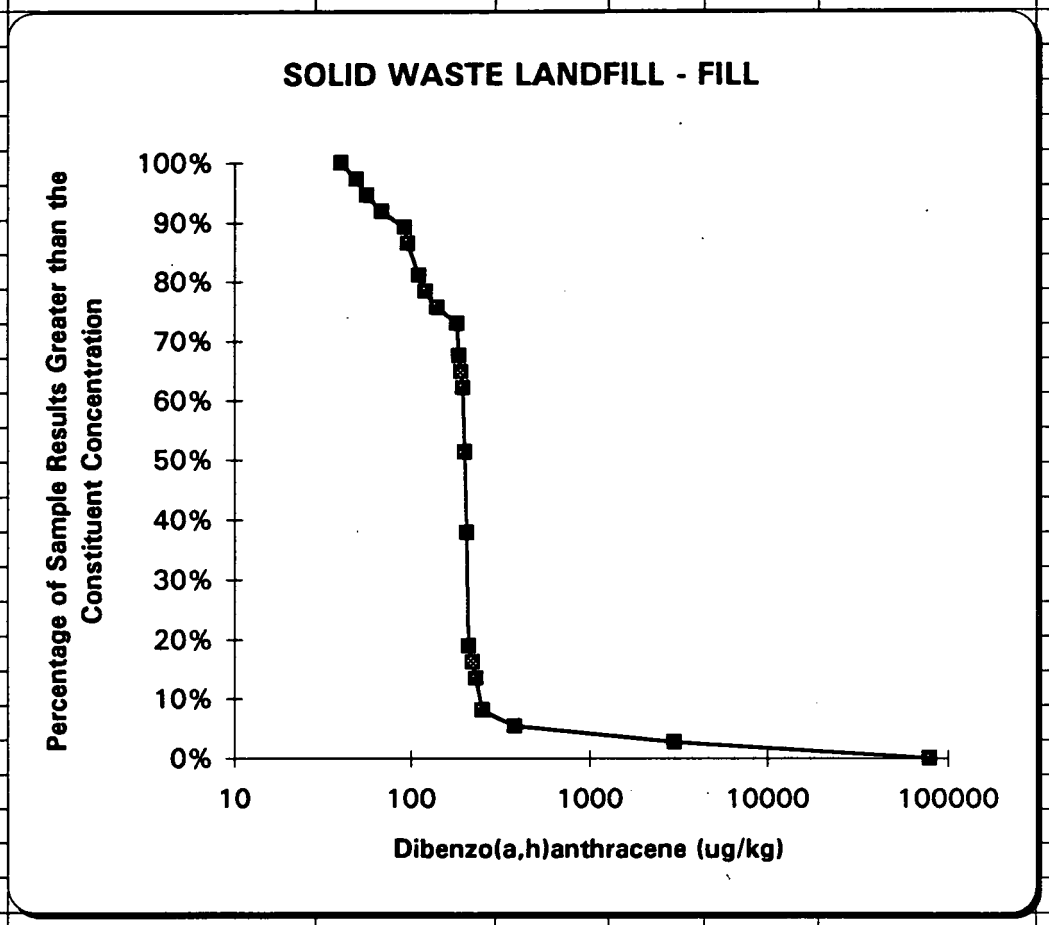

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115384	Indeno(1,2,3-cd)pyrene	11039	150000	ug/kg	-	1.50E+05	100.00%
115389	Indeno(1,2,3-cd)pyrene	11041	6500	ug/kg	-	6.50E+03	97.29%
067287	Indeno(1,2,3-cd)pyrene	1719	5500	ug/kg	-	5.50E+03	94.59%
111441	Indeno(1,2,3-cd)pyrene	1985	520	ug/kg	J	5.20E+02	91.89%
111293	Indeno(1,2,3-cd)pyrene	SWL-SS-01	480	ug/kg	J	4.80E+02	89.18%
115357	Indeno(1,2,3-cd)pyrene	1987	440	ug/kg	-	4.40E+02	83.78%
067394	Indeno(1,2,3-cd)pyrene	1808	440	ug/kg	J	4.40E+02	83.78%
067396	Indeno(1,2,3-cd)pyrene	1808	430	ug/kg	J	4.30E+02	81.08%
115319	Indeno(1,2,3-cd)pyrene	1991	320	ug/kg	J	3.20E+02	75.67%
115339	Indeno(1,2,3-cd)pyrene	1993	320	ug/kg	J	3.20E+02	75.67%
115329	Indeno(1,2,3-cd)pyrene	1990	280	ug/kg	J	2.80E+02	72.97%
115343	Indeno(1,2,3-cd)pyrene	1992	260	ug/kg	J	2.60E+02	70.27%
111452	Indeno(1,2,3-cd)pyrene	1986	230	ug/kg	J	2.30E+02	64.86%
111307	Indeno(1,2,3-cd)pyrene	SWL-SS-09	460	ug/kg	UJ	2.30E+02	64.86%
115350	Indeno(1,2,3-cd)pyrene	1988	440	ug/kg	U	2.20E+02	62.16%
115376	Indeno(1,2,3-cd)pyrene	11038	210	ug/kg	J	2.10E+02	56.75%
111309	Indeno(1,2,3-cd)pyrene	SWL-SS-10	420	ug/kg	UJ	2.10E+02	56.75%
067311	Indeno(1,2,3-cd)pyrene	1720	410	ug/kg	U	2.05E+02	40.54%
067717	Indeno(1,2,3-cd)pyrene	1888	410	ug/kg	U	2.05E+02	40.54%
115371	Indeno(1,2,3-cd)pyrene	11037	410	ug/kg	U	2.05E+02	40.54%
111297	Indeno(1,2,3-cd)pyrene	SWL-SS-02	410	ug/kg	UJ	2.05E+02	40.54%
111301	Indeno(1,2,3-cd)pyrene	SWL-SS-05	410	ug/kg	UJ	2.05E+02	40.54%
111312	Indeno(1,2,3-cd)pyrene	SWL-SS-12	410	ug/kg	UJ	2.05E+02	40.54%
115392	Indeno(1,2,3-cd)pyrene	11040	200	ug/kg	J	2.00E+02	32.43%
111476	Indeno(1,2,3-cd)pyrene	1983	400	ug/kg	U	2.00E+02	32.43%
111310	Indeno(1,2,3-cd)pyrene	SWL-SS-11	400	ug/kg	UJ	2.00E+02	32.43%
111304	Indeno(1,2,3-cd)pyrene	SWL-SS-07	390	ug/kg	UJ	1.95E+02	29.72%
067714	Indeno(1,2,3-cd)pyrene	1888	380	ug/kg	U	1.90E+02	27.02%
067250	Indeno(1,2,3-cd)pyrene	1722	370	ug/kg	U	1.85E+02	24.32%
111466	Indeno(1,2,3-cd)pyrene	1984	360	ug/kg	U	1.80E+02	21.62%
115381	Indeno(1,2,3-cd)pyrene	11036	130	ug/kg	J	1.30E+02	18.91%
111303	Indeno(1,2,3-cd)pyrene	SWL-SS-06	100	ug/kg	J	1.00E+02	16.21%
111300	Indeno(1,2,3-cd)pyrene	SWL-SS-04	91	ug/kg	J	9.10E+01	10.81%
111484	Indeno(1,2,3-cd)pyrene	1982	91	ug/kg	J	9.10E+01	10.81%
111298	Indeno(1,2,3-cd)pyrene	SWL-SS-03	73	ug/kg	J	7.30E+01	8.10%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115362	Indeno(1,2,3-cd)pyrene	1989	67	ug/kg	J	6.70E+01	5.40%
111492	Indeno(1,2,3-cd)pyrene	SWL-SS-08	46	ug/kg	J	4.60E+01	2.70%
111477	Indeno(1,2,3-cd)pyrene	1983	45	ug/kg	J	4.50E+01	0.00%

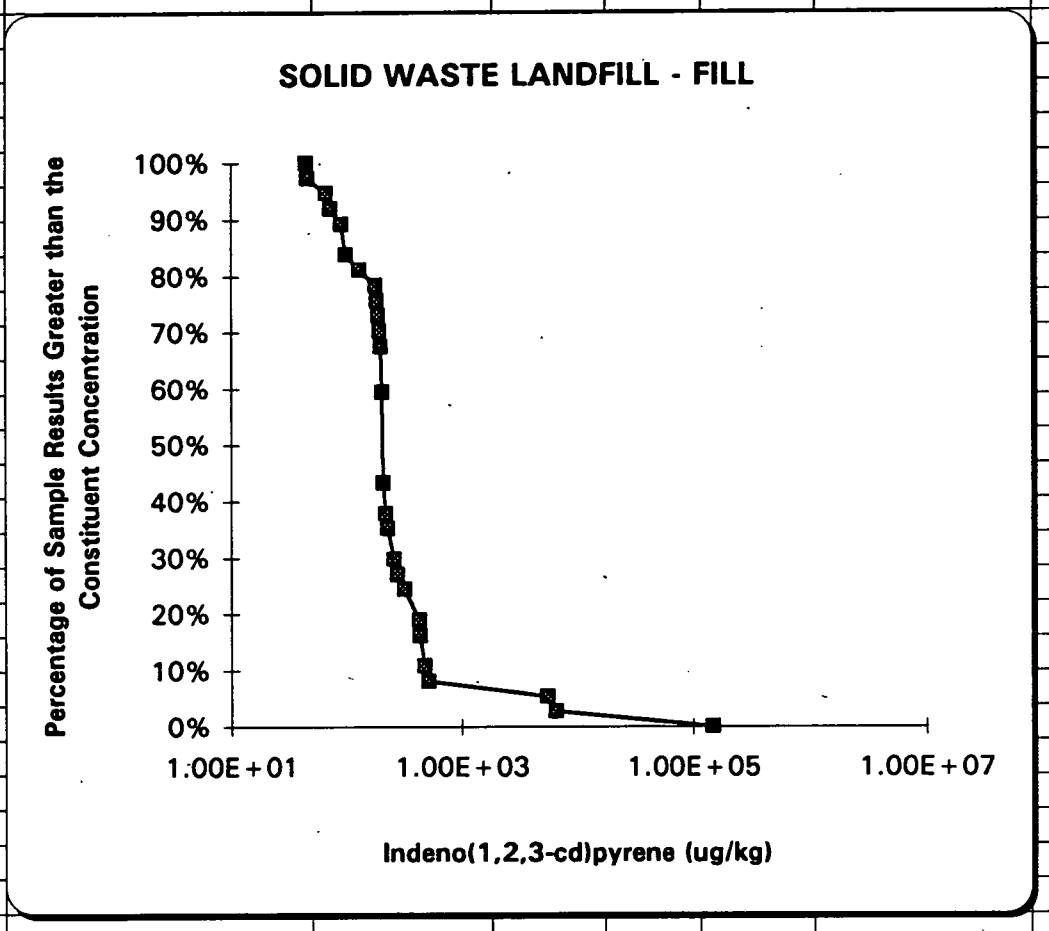

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111312	Neptunium-237	SWL-SS-12	3.11	pci/g	N	3.11	100.00%
115381	Neptunium-237	11036	1.67	pci/g	N	1.67	96.66%
067292	Neptunium-237	1719	1	pci/g	UJ	0.5	93.33%
111441	Neptunium-237	1985	0.462	pci/g	N	0.462	90.00%
111484	Neptunium-237	1982	0.34	pci/g	N	0.34	86.66%
067286	Neptunium-237	1719	0.6	pci/g	U	0.3	60.00%
067306	Neptunium-237	1720	0.6	pci/g	U	0.3	60.00%
067310	Neptunium-237	1720	0.6	pci/g	U	0.3	60.00%
067230	Neptunium-237	1721	0.6	pci/g	UJ	0.3	60.00%
067266	Neptunium-237	1718	0.6	pci/g	UJ	0.3	60.00%
067275	Neptunium-237	1718	0.6	pci/g	UJ	0.3	60.00%
067393	Neptunium-237	1808	0.6	pci/g	UJ	0.3	60.00%
067398	Neptunium-237	1808	0.6	pci/g	UJ	0.3	60.00%
115339	Neptunium-237	1993	0.252	pci/g	N	0.252	56.66%
115319	Neptunium-237	1991	0.25	pci/g	N	0.25	53.33%
111476	Neptunium-237	1983	0.237	pci/g	N	0.237	50.00%
111301	Neptunium-237	SWL-SS-05	0.194	pci/g	N	0.194	46.66%
115384	Neptunium-237	11039	0.19	pci/g	N	0.19	43.33%
111477	Neptunium-237	1983	0.185	pci/g	N	0.185	40.00%
111298	Neptunium-237	SWL-SS-03	0.147	pci/g	N	0.147	36.66%
115329	Neptunium-237	1990	0.14	pci/g	N	0.14	33.33%
115343	Neptunium-237	1992	0.117	pci/g	N	0.117	26.66%
115389	Neptunium-237	11041	0.117	pci/g	N	0.117	26.66%
115357	Neptunium-237	1987	0.116	pci/g	N	0.116	23.33%
111297	Neptunium-237	SWL-SS-02	0.115	pci/g	N	0.115	20.00%
115350	Neptunium-237	1988	0.101	pci/g	N	0.101	16.66%
111492	Neptunium-237	SWL-SS-08	0.0747	pci/g	N	0.0747	13.33%
111307	Neptunium-237	SWL-SS-09	0.0639	pci/g	N	0.0639	10.00%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111466	Neptunium-237	1984	0.05	pci/g	N	0.05	6.66%
111309	Neptunium-237	SWL-SS-10	0.046	pci/g	N	0.046	3.33%
111304	Neptunium-237	SWL-SS-07	0.0457	pci/g	N	0.0457	0.00%

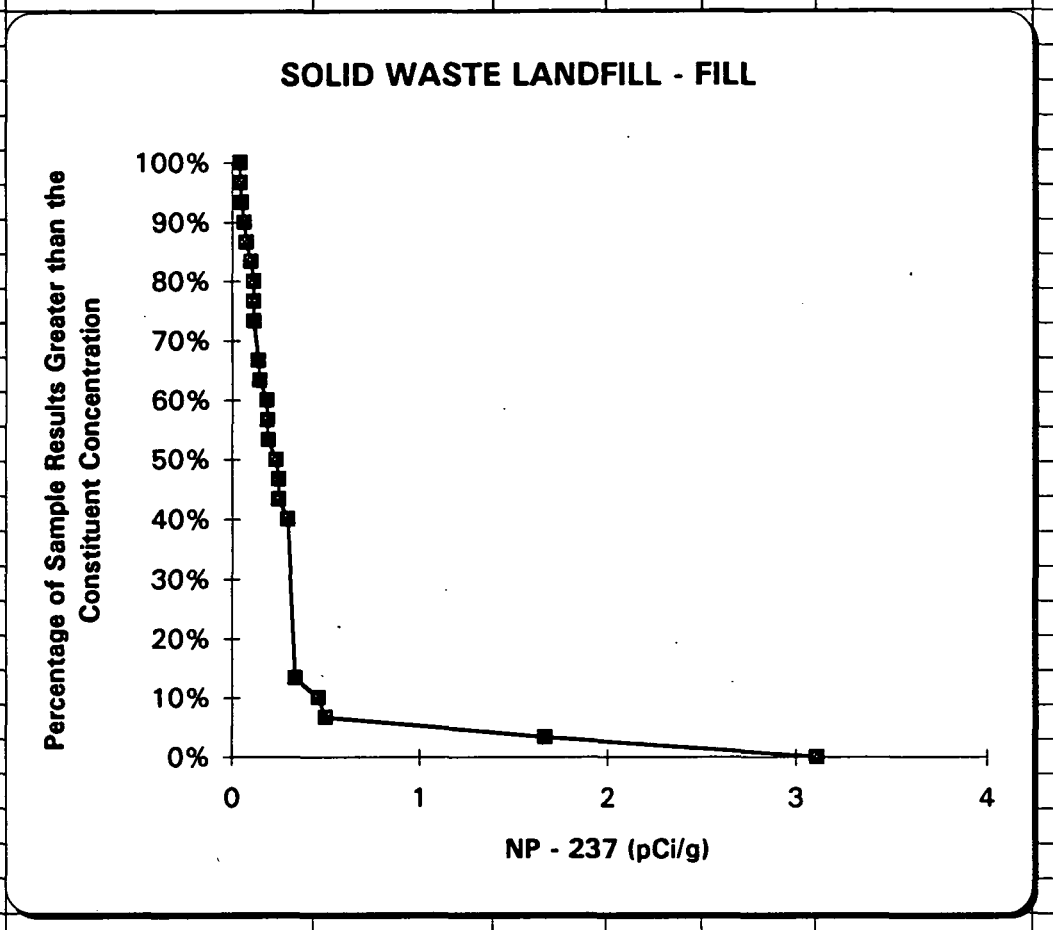

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111492	Plutonium-238	SWL-SS-08	0.9024	pci/g	J	0.9024	100.00%
067292	Plutonium-238	1719	1	pci/g	U	0.5	97.36%
111476	Plutonium-238	1983	0.433	pci/g	J	0.433	94.73%
115381	Plutonium-238	11036	0.337	pci/g	J	0.337	92.10%
111312	Plutonium-238	SWL-SS-12	0.333	pci/g	J	0.333	89.47%
115350	Plutonium-238	1988	0.328	pci/g	J	0.328	86.84%
067286	Plutonium-238	1719	0.6	pci/g	U	0.3	63.15%
067718	Plutonium-238	1888	0.6	pci/g	U	0.3	63.15%
067230	Plutonium-238	1721	0.6	pci/g	UJ	0.3	63.15%
067266	Plutonium-238	1718	0.6	pci/g	UJ	0.3	63.15%
067275	Plutonium-238	1718	0.6	pci/g	UJ	0.3	63.15%
067306	Plutonium-238	1720	0.6	pci/g	UJ	0.3	63.15%
067310	Plutonium-238	1720	0.6	pci/g	UJ	0.3	63.15%
067393	Plutonium-238	1808	0.6	pci/g	UJ	0.3	63.15%
067398	Plutonium-238	1808	0.6	pci/g	UJ	0.3	63.15%
115389	Plutonium-238	11041	0.257	pci/g	J	0.257	60.52%
115329	Plutonium-238	1990	0.232	pci/g	J	0.232	57.89%
111300	Plutonium-238	SWL-SS-04	0.207	pci/g	J	0.207	55.26%
115384	Plutonium-238	11039	0.14	pci/g	J	0.14	52.63%
115343	Plutonium-238	1992	0.102	pci/g	J	0.102	50.00%
111484	Plutonium-238	1982	0.1	pci/g	J	0.1	47.36%
111309	Plutonium-238	SWL-SS-10	0.0968	pci/g	J	0.0968	44.73%
111298	Plutonium-238	SWL-SS-03	0.095	pci/g	J	0.095	42.10%
111301	Plutonium-238	SWL-SS-05	0.0718	pci/g	J	0.0718	39.47%
115319	Plutonium-238	1991	0.06	pci/g	J	0.06	34.21%
115362	Plutonium-238	1989	0.06	pci/g	J	0.06	34.21%
111297	Plutonium-238	SWL-SS-02	0.0573	pci/g	J	0.0573	31.57%
111303	Plutonium-238	SWL-SS-06	0.049	pci/g	J	0.049	28.94%
115392	Plutonium-238	11040	0.039	pci/g	J	0.039	26.31%
111477	Plutonium-238	1983	0.033	pci/g	J	0.033	23.68%
115371	Plutonium-238	11037	0.03	pci/g	J	0.03	21.05%
111466	Plutonium-238	1984	0.027	pci/g	J	0.027	18.42%
111304	Plutonium-238	SWL-SS-07	0.0228	pci/g	J	0.0228	15.78%
115339	Plutonium-238	1993	0.0226	pci/g	J	0.0226	13.15%
111441	Plutonium-238	1985	0.042	pci/g	UJ	0.021	10.52%
111307	Plutonium-238	SWL-SS-09	0.0191	pci/g	J	0.0191	7.89%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115357	Plutonium-238	1987	0.0188	pci/g	J	0.0188	5.26%
111293	Plutonium-238	SWL-SS-01	0.0264	pci/g	UJ	0.0132	2.63%
111310	Plutonium-238	SWL-SS-11	0.0153	pci/g	UJ	0.00765	0.00%

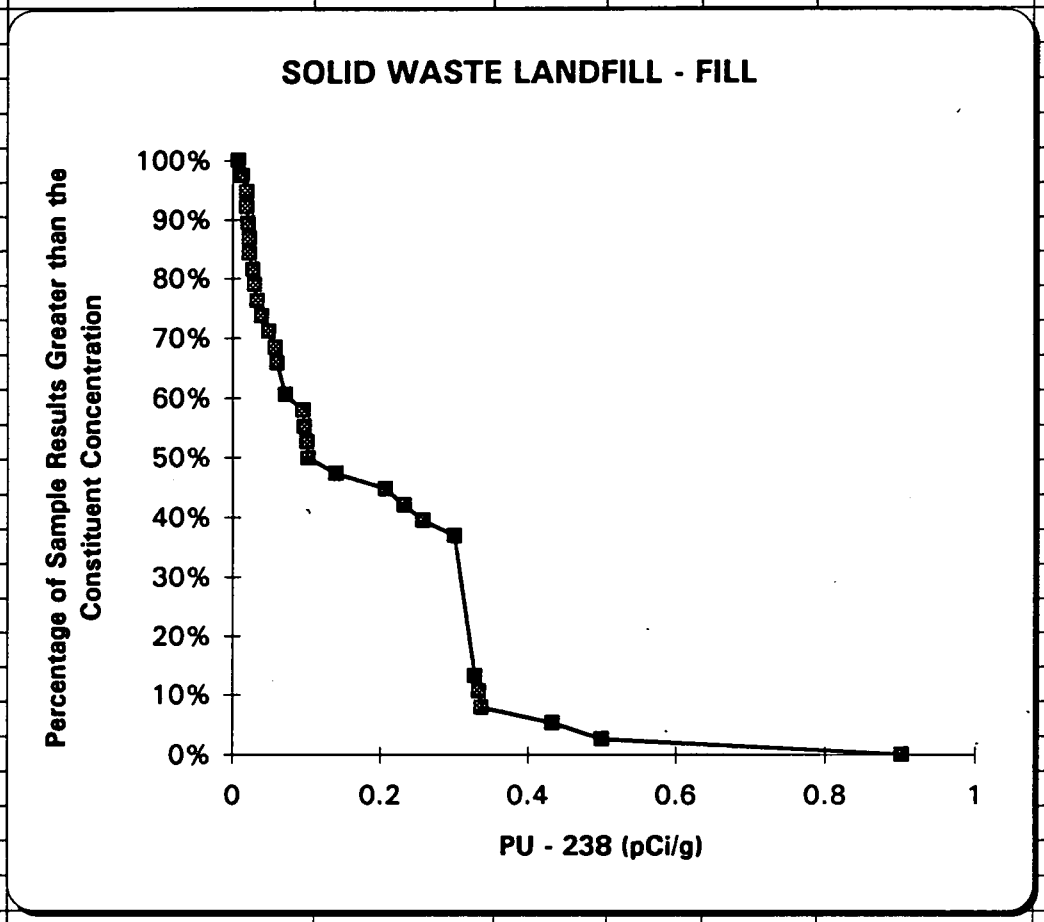

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Radium-226	11036	113	pci/g	-	113	100.00%
111307	Radium-226	SWL-SS-09	2.26	pci/g	-	2.26	97.36%
111441	Radium-226	1985	1.87	pci/g	-	1.87	94.73%
111301	Radium-226	SWL-SS-05	1.59	pci/g	-	1.59	92.10%
067251	Radium-226	1722	1.5	pci/g	J	1.5	89.47%
067266	Radium-226	1718	1.41	pci/g	J	1.41	86.84%
111476	Radium-226	1983	1.35	pci/g	-	1.35	84.21%
111484	Radium-226	1982	1.3	pci/g	-	1.3	81.57%
111303	Radium-226	SWL-SS-06	1.26	pci/g	-	1.26	78.94%
067286	Radium-226	1719	1.24	pci/g	J	1.24	76.31%
115392	Radium-226	11040	1.22	pci/g	-	1.22	73.68%
115357	Radium-226	1987	1.21	pci/g	-	1.21	71.05%
115343	Radium-226	1992	1.19	pci/g	-	1.19	68.42%
115371	Radium-226	11037	1.18	pci/g	-	1.18	65.78%
111477	Radium-226	1983	1.17	pci/g	-	1.17	63.15%
115339	Radium-226	1993	1.165	pci/g	-	1.165	60.52%
111297	Radium-226	SWL-SS-02	1.16	pci/g	-	1.16	55.26%
115389	Radium-226	11041	1.16	pci/g	-	1.16	55.26%
115350	Radium-226	1988	1.15	pci/g	-	1.15	50.00%
067275	Radium-226	1718	1.15	pci/g	J	1.15	50.00%
115319	Radium-226	1991	1.14	pci/g	-	1.14	47.36%
111312	Radium-226	SWL-SS-12	1.13	pci/g	-	1.13	44.73%
111300	Radium-226	SWL-SS-04	1.12	pci/g	-	1.12	36.84%
111492	Radium-226	SWL-SS-08	1.12	pci/g	-	1.12	36.84%
067718	Radium-226	1888	1.12	pci/g	J	1.12	36.84%
111466	Radium-226	1984	1.11	pci/g	J	1.11	34.21%
067306	Radium-226	1720	1.06	pci/g	J	1.06	31.57%
067398	Radium-226	1808	1.05	pci/g	J	1.05	28.94%
111298	Radium-226	SWL-SS-03	1.04	pci/g	-	1.04	26.31%
111309	Radium-226	SWL-SS-10	1.01	pci/g	-	1.01	21.05%
067310	Radium-226	1720	1.01	pci/g	J	1.01	21.05%
067292	Radium-226	1719	1	pci/g	J	1	18.42%
111304	Radium-226	SWL-SS-07	0.975	pci/g	-	0.975	15.78%
115362	Radium-226	1989	0.97	pci/g	J	0.97	13.15%
111310	Radium-226	SWL-SS-11	0.92	pci/g	-	0.92	10.52%
111293	Radium-226	SWL-SS-01	0.915	pci/g	-	0.915	7.89%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067230	Radium-226	1721	0.89	pci/g	J	0.89	5.26%
115329	Radium-226	1990	0.879	pci/g	-	0.879	2.63%
115384	Radium-226	11039	0.82	pci/g	J	0.82	0.00%

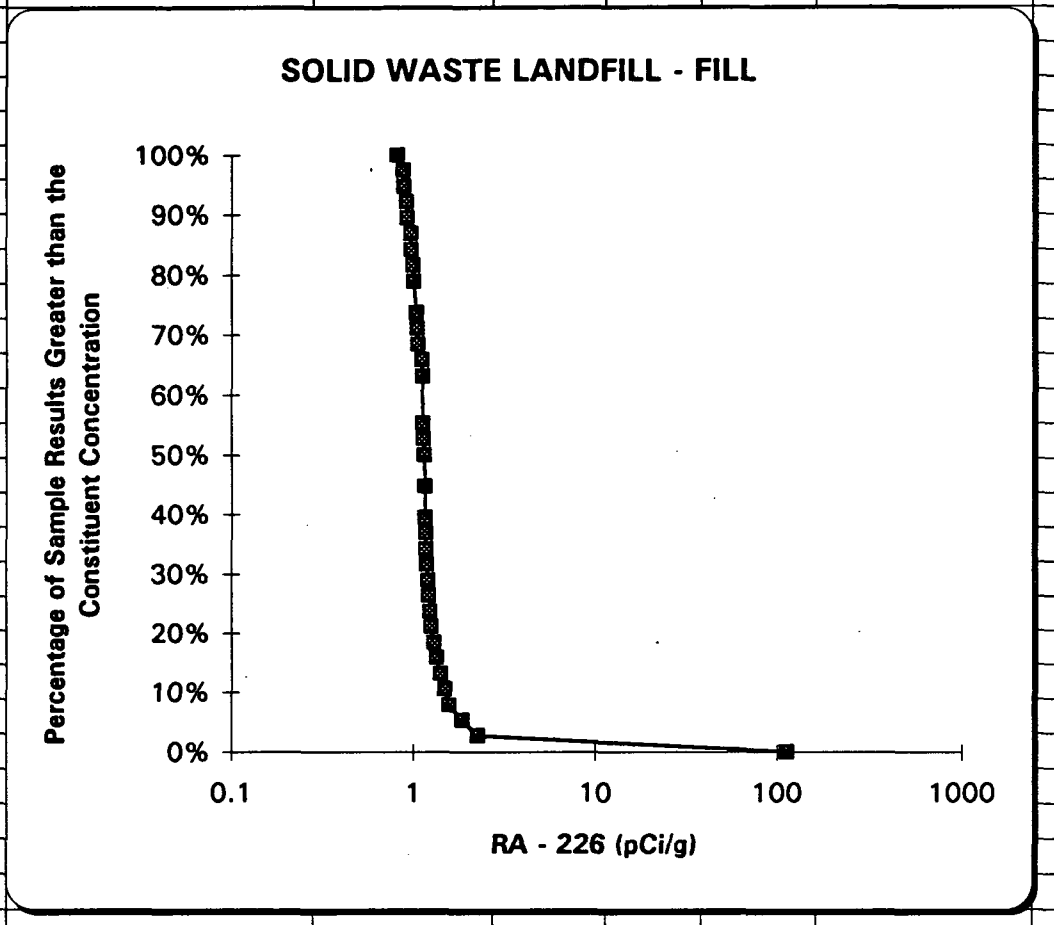

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

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Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Radium-228	11036	6.65	pci/g	-	6.65	100.00%
067266	Radium-228	1718	3.15	pci/g	J	3.15	97.36%
111300	Radium-228	SWL-SS-04	2.99	pci/g	-	2.99	94.73%
115350	Radium-228	1988	2.56	pci/g	-	2.56	92.10%
111476	Radium-228	1983	2.39	pci/g	-	2.39	89.47%
115389	Radium-228	11041	2.14	pci/g	-	2.14	86.84%
111312	Radium-228	SWL-SS-12	2.07	pci/g	-	2.07	84.21%
067718	Radium-228	1888	1.57	pci/g	J	1.57	81.57%
111492	Radium-228	SWL-SS-08	1.45	pci/g	-	1.45	78.94%
115343	Radium-228	1992	1.39	pci/g	-	1.39	76.31%
115357	Radium-228	1987	1.37	pci/g	-	1.37	73.68%
115329	Radium-228	1990	1.35	pci/g	-	1.35	68.42%
067306	Radium-228	1720	1.35	pci/g	J	1.35	68.42%
111301	Radium-228	SWL-SS-05	1.3	pci/g	-	1.3	65.78%
111298	Radium-228	SWL-SS-03	1.28	pci/g	-	1.28	63.15%
115362	Radium-228	1989	1.22	pci/g	-	1.22	60.52%
111309	Radium-228	SWL-SS-10	1.21	pci/g	-	1.21	55.26%
115339	Radium-228	1993	1.21	pci/g	-	1.21	55.26%
111441	Radium-228	1985	1.19	pci/g	-	1.19	50.00%
111484	Radium-228	1982	1.19	pci/g	-	1.19	50.00%
111307	Radium-228	SWL-SS-09	1.16	pci/g	-	1.16	42.10%
115371	Radium-228	11037	1.16	pci/g	-	1.16	42.10%
067398	Radium-228	1808	1.16	pci/g	J	1.16	42.10%
115392	Radium-228	11040	1.13	pci/g	-	1.13	36.84%
067275	Radium-228	1718	1.13	pci/g	J	1.13	36.84%
067286	Radium-228	1719	1.1	pci/g	J	1.1	34.21%
067310	Radium-228	1720	1.07	pci/g	J	1.07	31.57%
111466	Radium-228	1984	1.06	pci/g	-	1.06	26.31%
115384	Radium-228	11039	1.06	pci/g	-	1.06	26.31%
115319	Radium-228	1991	1.05	pci/g	-	1.05	23.68%
067251	Radium-228	1722	1.03	pci/g	J	1.03	21.05%
111477	Radium-228	1983	1.02	pci/g	-	1.02	18.42%
111297	Radium-228	SWL-SS-02	1.01	pci/g	-	1.01	15.78%
067292	Radium-228	1719	1	pci/g	J	1	13.15%
111303	Radium-228	SWL-SS-06	0.918	pci/g	-	0.918	10.52%
111310	Radium-228	SWL-SS-11	0.847	pci/g	-	0.847	7.89%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111293	Radium-228	SWL-SS-01	0.843	pci/g	-	0.843	5.26%
111304	Radium-228	SWL-SS-07	0.721	pci/g	-	0.721	2.63%
067230	Radium-228	1721	0.67	pci/g	J	0.67	0.00%

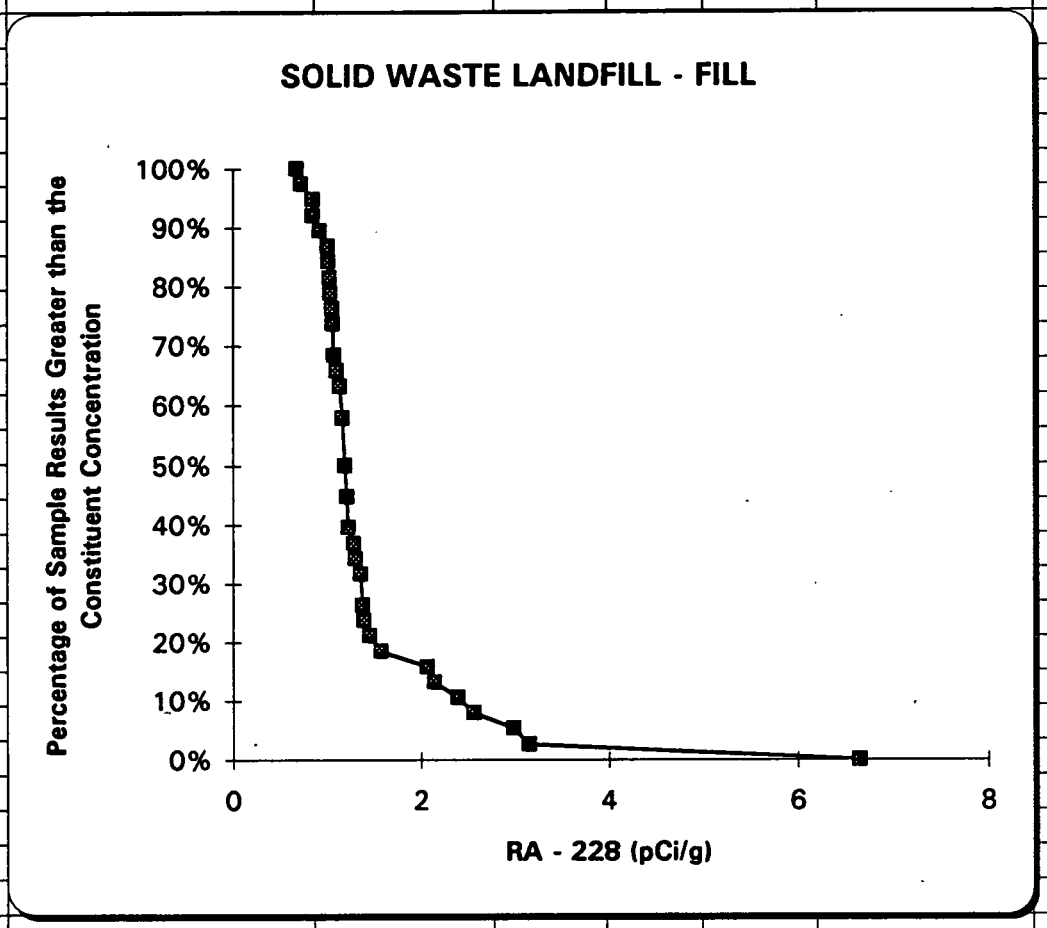

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
67310	Strontium-90	1720	3.09	pci/g	J	3.09	100.00%
115381	Strontium-90	11036	1.99	pci/g	J	1.99	97.20%
67306	Strontium-90	1720	1.58	pci/g	J	1.58	94.40%
111307	Strontium-90	SWL-SS-09	1.44	pci/g	J	1.44	91.60%
111297	Strontium-90	SWL-SS-02	1.23	pci/g	J	1.23	88.80%
67292	Strontium-90	1719	1.1	pci/g	J	1.1	86.10%
111300	Strontium-90	SWL-SS-04	1.09	pci/g	J	1.09	83.30%
111312	Strontium-90	SWL-SS-12	1.07	pci/g	J	1.07	80.50%
111304	Strontium-90	SWL-SS-07	1.05	pci/g	J	1.05	77.70%
67718	Strontium-90	1888	1.01	pci/g	-	1.01	75.00%
67286	Strontium-90	1719	0.86	pci/g	J	0.86	72.20%
67230	Strontium-90	1721	0.8	pci/g	J	0.8	69.40%
111303	Strontium-90	SWL-SS-06	0.789	pci/g	J	0.789	66.60%
111293	Strontium-90	SWL-SS-01	0.58	pci/g	J	0.58	63.80%
111476	Strontium-90	1983	0.55	pci/g	J	0.55	61.10%
111309	Strontium-90	SWL-SS-10	0.527	pci/g	J	0.527	58.30%
111301	Strontium-90	SWL-SS-05	0.525	pci/g	UJ	0.2625	55.50%
67251	Strontium-90	1722	0.5	pci/g	UJ	0.25	47.20%
67393	Strontium-90	1808	0.5	pci/g	UJ	0.25	47.20%
67398	Strontium-90	1808	0.5	pci/g	UJ	0.25	47.20%
111466	Strontium-90	1984	0.484	pci/g	UJ	0.242	44.40%
115319	Strontium-90	1991	0.48	pci/g	UJ	0.24	41.60%
111298	Strontium-90	SWL-SS-03	0.477	pci/g	UJ	0.2385	38.80%
111477	Strontium-90	1983	0.47	pci/g	UJ	0.235	36.10%
111492	Strontium-90	SWL-SS-08	0.432	pci/g	UJ	0.216	33.30%
111484	Strontium-90	1982	0.43	pci/g	UJ	0.215	30.50%
111310	Strontium-90	SWL-SS-11	0.422	pci/g	UJ	0.211	27.70%
111441	Strontium-90	1985	0.39	pci/g	UJ	0.195	22.20%
115389	Strontium-90	11041	0.195	pci/g	J	0.195	22.20%
115339	Strontium-90	1993	0.224	pci/g	UJ	0.112	19.40%
115371	Strontium-90	11037	0.21	pci/g	UJ	0.105	16.60%
115343	Strontium-90	1992	0.206	pci/g	UJ	0.103	13.80%
115362	Strontium-90	1989	0.19	pci/g	UJ	0.095	11.10%
115384	Strontium-90	11039	0.17	pci/g	UJ	0.085	8.30%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115357	Strontium-90	1987	0.163	pci/g	UJ	0.0815	5.50%
115350	Strontium-90	1988	0.149	pci/g	UJ	0.0745	2.70%
115329	Strontium-90	1990	0.143	pci/g	UJ	0.0715	.00%

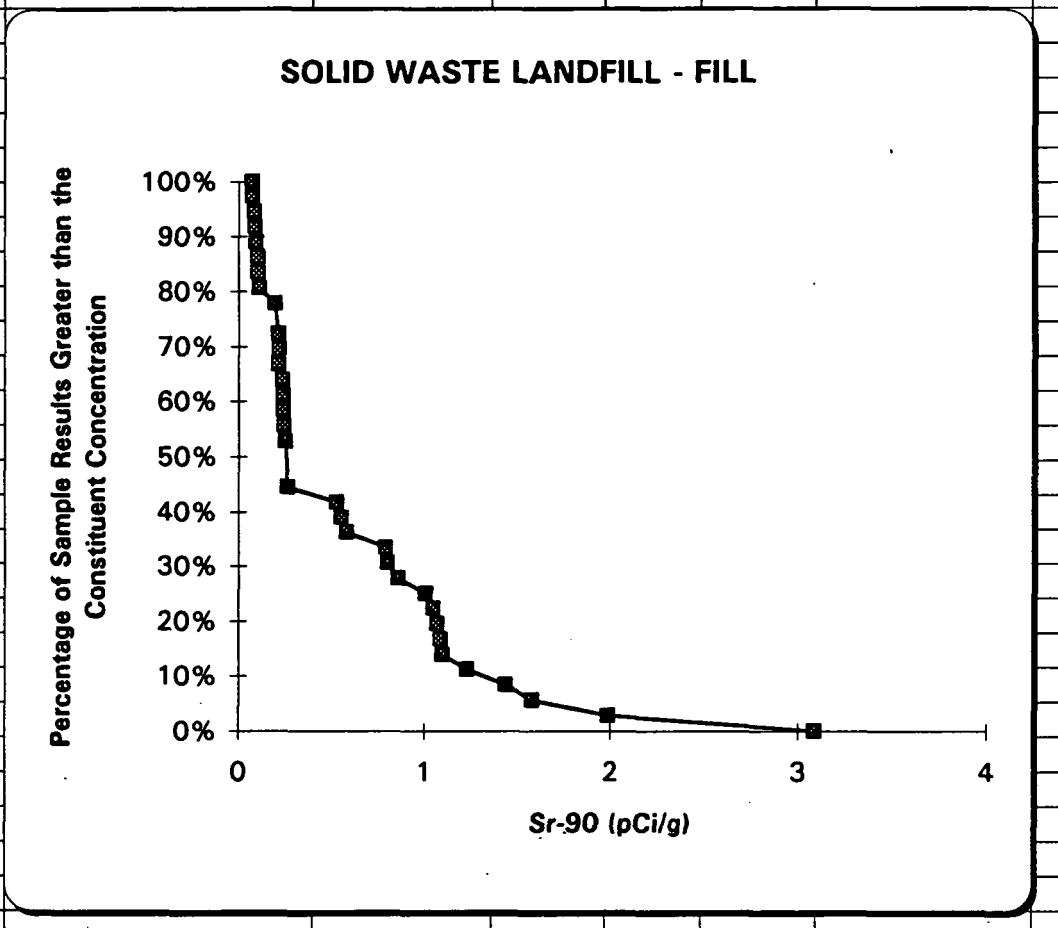

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Technetium-99	11036	5.13	pci/g	J	5.13	100.00%
115384	Technetium-99	11039	0.84	pci/g	J	0.84	97.29%
115389	Technetium-99	11041	0.754	pci/g	J	0.754	94.59%
067230	Technetium-99	1721	0.9	pci/g	U	0.45	67.56%
067266	Technetium-99	1718	0.9	pci/g	U	0.45	67.56%
067275	Technetium-99	1718	0.9	pci/g	U	0.45	67.56%
067286	Technetium-99	1719	0.9	pci/g	U	0.45	67.56%
067292	Technetium-99	1719	0.9	pci/g	U	0.45	67.56%
067306	Technetium-99	1720	0.9	pci/g	U	0.45	67.56%
067310	Technetium-99	1720	0.9	pci/g	U	0.45	67.56%
067393	Technetium-99	1808	0.9	pci/g	U	0.45	67.56%
067398	Technetium-99	1808	0.9	pci/g	U	0.45	67.56%
067718	Technetium-99	1888	0.9	pci/g	UJ	0.45	67.56%
115343	Technetium-99	1992	0.561	pci/g	UJ	0.2805	64.86%
115339	Technetium-99	1993	0.522	pci/g	UJ	0.261	62.16%
115329	Technetium-99	1990	0.43	pci/g	UJ	0.215	59.45%
111477	Technetium-99	1983	0.4	pci/g	UJ	0.2	56.75%
115371	Technetium-99	11037	0.38	pci/g	UJ	0.19	54.05%
111492	Technetium-99	SWL-SS-08	0.373	pci/g	UJ	0.1865	51.35%
111466	Technetium-99	1984	0.366	pci/g	UJ	0.183	48.64%
111441	Technetium-99	1985	0.36	pci/g	UJ	0.18	43.24%
111484	Technetium-99	1982	0.36	pci/g	UJ	0.18	43.24%
111303	Technetium-99	SWL-SS-06	0.358	pci/g	UJ	0.179	37.83%
111310	Technetium-99	SWL-SS-11	0.358	pci/g	UJ	0.179	37.83%
111312	Technetium-99	SWL-SS-12	0.354	pci/g	UJ	0.177	35.13%
111309	Technetium-99	SWL-SS-10	0.351	pci/g	UJ	0.1755	32.43%
111476	Technetium-99	1983	0.35	pci/g	UJ	0.175	27.02%
115362	Technetium-99	1989	0.35	pci/g	UJ	0.175	27.02%
111300	Technetium-99	SWL-SS-04	0.349	pci/g	UJ	0.1745	24.32%
111298	Technetium-99	SWL-SS-03	0.346	pci/g	UJ	0.173	21.62%
115350	Technetium-99	1988	0.342	pci/g	UJ	0.171	18.91%
111304	Technetium-99	SWL-SS-07	0.337	pci/g	UJ	0.1685	16.21%
111293	Technetium-99	SWL-SS-01	0.335	pci/g	UJ	0.1675	13.51%
111297	Technetium-99	SWL-SS-02	0.334	pci/g	UJ	0.167	8.10%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111307	Technetium-99	SWL-SS-09	0.334	pci/g	UJ	0.167	8.10%
115319	Technetium-99	1991	0.33	pci/g	UJ	0.165	5.40%
111301	Technetium-99	SWL-SS-05	0.327	pci/g	UJ	0.1635	2.70%
115357	Technetium-99	1987	0.307	pci/g	UJ	0.1535	0.00%

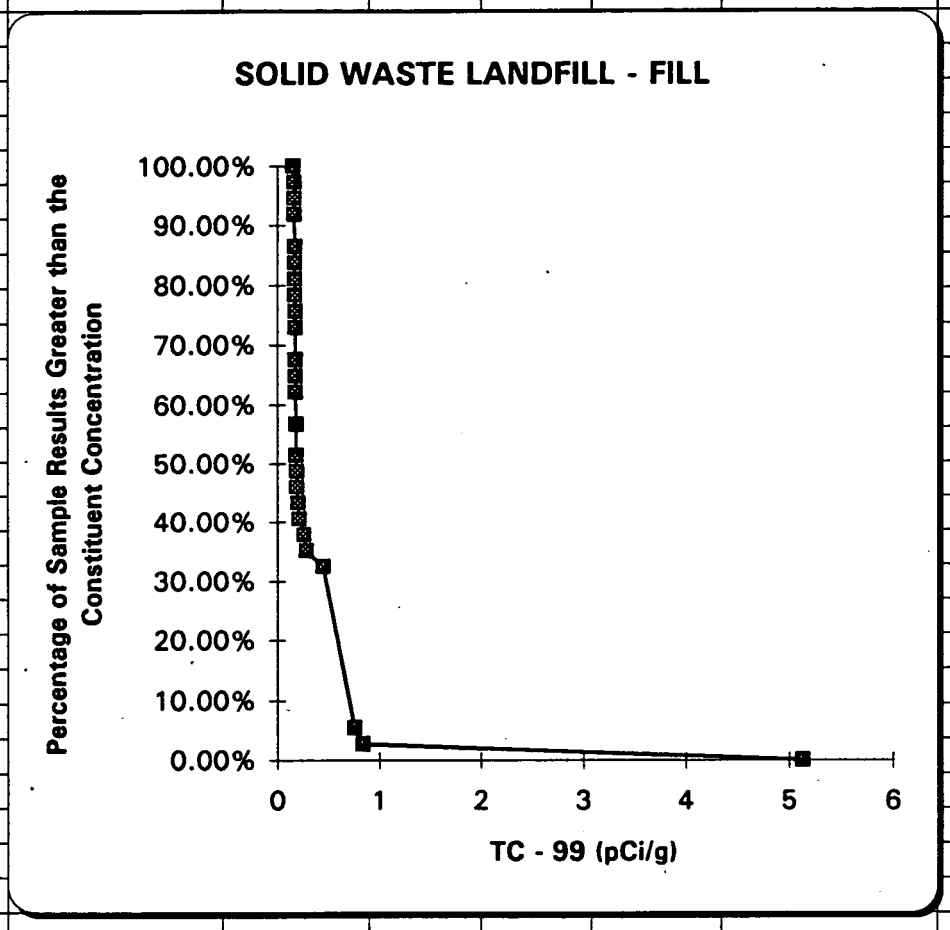

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Thorium-228	11036	9.36	pci/g	-	9.36	100.00%
067393	Thorium-228	1808	4.01	pci/g	J	4.01	96.96%
067266	Thorium-228	1718	3.39	pci/g	J	3.39	93.93%
111476	Thorium-228	1983	2.69	pci/g	-	2.69	90.90%
111300	Thorium-228	SWL-SS-04	2.33	pci/g	-	2.33	87.87%
067275	Thorium-228	1718	2.29	pci/g	J	2.29	84.84%
067306	Thorium-228	1720	2.1	pci/g	J	2.1	81.81%
115389	Thorium-228	11041	2.09	pci/g	-	2.09	78.78%
115350	Thorium-228	1988	1.92	pci/g	-	1.92	75.75%
067251	Thorium-228	1722	1.61	pci/g	J	1.61	72.72%
067230	Thorium-228	1721	1.57	pci/g	J	1.57	69.69%
115343	Thorium-228	1992	1.51	pci/g	J	1.51	66.66%
111301	Thorium-228	SWL-SS-05	1.41	pci/g	-	1.41	63.63%
115329	Thorium-228	1990	1.4	pci/g	J	1.4	60.60%
067718	Thorium-228	1888	1.37	pci/g	-	1.37	57.57%
067286	Thorium-228	1719	1.24	pci/g	-	1.24	54.54%
111492	Thorium-228	SWL-SS-08	1.21	pci/g	J	1.21	51.51%
111484	Thorium-228	1982	1.19	pci/g	-	1.19	48.48%
067310	Thorium-228	1720	1.17	pci/g	J	1.17	42.42%
067398	Thorium-228	1808	1.17	pci/g	J	1.17	42.42%
111298	Thorium-228	SWL-SS-03	1.14	pci/g	-	1.14	39.39%
111477	Thorium-228	1983	1.11	pci/g	-	1.11	36.36%
111297	Thorium-228	SWL-SS-02	1.08	pci/g	-	1.08	30.30%
111307	Thorium-228	SWL-SS-09	1.08	pci/g	-	1.08	30.30%
115384	Thorium-228	11039	1.02	pci/g	J	1.02	27.27%
115357	Thorium-228	1987	0.978	pci/g	-	0.978	24.24%
111466	Thorium-228	1984	0.93	pci/g	-	0.93	21.21%
115371	Thorium-228	11037	0.92	pci/g	J	0.92	18.18%
115339	Thorium-228	1993	0.904	pci/g	-	0.904	15.15%
111441	Thorium-228	1985	0.83	pci/g	-	0.83	9.09%
115319	Thorium-228	1991	0.83	pci/g	J	0.83	9.09%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111293	Thorium-228	SWL-SS-01	0.814	pci/g	-	0.814	6.06%
111303	Thorium-228	SWL-SS-06	0.79	pci/g	-	0.79	3.03%
111304	Thorium-228	SWL-SS-07	0.482	pci/g	J	0.482	0.00%

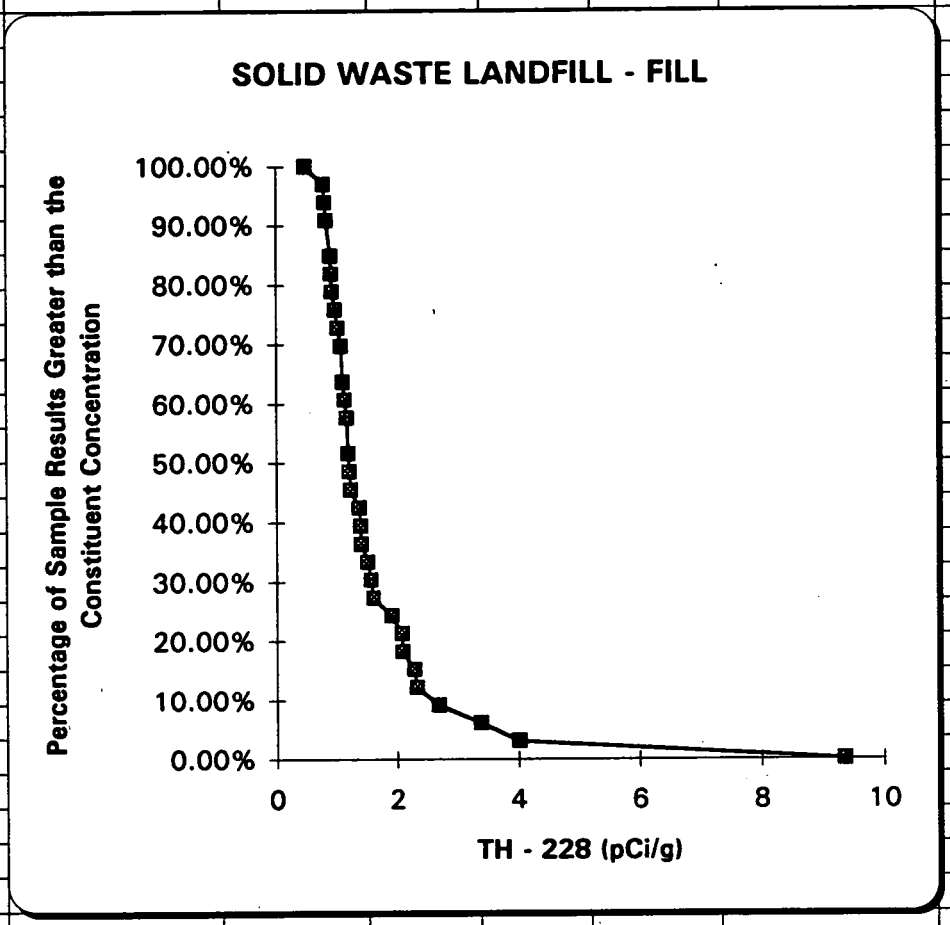

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Thorium-230	11036	720	pci/g	-	720	100.00%
111441	Thorium-230	1985	15.36	pci/g	-	15.36	96.96%
067251	Thorium-230	1722	12.3	pci/g	J	12.3	93.93%
111301	Thorium-230	SWL-SS-05	9.61	pci/g	-	9.61	90.90%
115339	Thorium-230	1993	6.72	pci/g	-	6.72	87.87%
115384	Thorium-230	11039	4.3	pci/g	J	4.3	84.84%
111477	Thorium-230	1983	4.26	pci/g	-	4.26	81.81%
111307	Thorium-230	SWL-SS-09	3.88	pci/g	-	3.88	78.78%
111297	Thorium-230	SWL-SS-02	3.74	pci/g	-	3.74	75.75%
111476	Thorium-230	1983	3.47	pci/g	-	3.47	72.72%
067306	Thorium-230	1720	3.46	pci/g	J	3.46	69.69%
115329	Thorium-230	1990	3.42	pci/g	J	3.42	66.66%
111298	Thorium-230	SWL-SS-03	3.24	pci/g	-	3.24	63.63%
111492	Thorium-230	SWL-SS-08	3.13	pci/g	J	3.13	60.60%
067393	Thorium-230	1808	2.76	pci/g	J	2.76	57.57%
067310	Thorium-230	1720	2.51	pci/g	J	2.51	54.54%
067398	Thorium-230	1808	2.42	pci/g	J	2.42	51.51%
115350	Thorium-230	1988	2.33	pci/g	-	2.33	48.48%
067718	Thorium-230	1888	2.3	pci/g	-	2.3	42.42%
067266	Thorium-230	1718	2.3	pci/g	J	2.3	42.42%
111293	Thorium-230	SWL-SS-01	2.21	pci/g	-	2.21	39.39%
111300	Thorium-230	SWL-SS-04	2.14	pci/g	-	2.14	36.36%
115343	Thorium-230	1992	2.05	pci/g	J	2.05	33.33%
067286	Thorium-230	1719	1.88	pci/g	-	1.88	30.30%
111484	Thorium-230	1982	1.76	pci/g	-	1.76	27.27%
115389	Thorium-230	11041	1.74	pci/g	-	1.74	21.21%
067275	Thorium-230	1718	1.74	pci/g	J	1.74	21.21%
115357	Thorium-230	1987	1.69	pci/g	-	1.69	18.18%
111466	Thorium-230	1984	1.51	pci/g	-	1.51	15.15%
115371	Thorium-230	11037	1.5	pci/g	J	1.5	12.12%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067230	Thorium-230	1721	1.37	pci/g	J	1.37	9.09%
111303	Thorium-230	SWL-SS-06	1.19	pci/g	-	1.19	6.06%
115319	Thorium-230	1991	1.16	pci/g	J	1.16	3.03%
111304	Thorium-230	SWL-SS-07	0.939	pci/g	-	0.939	0.00%

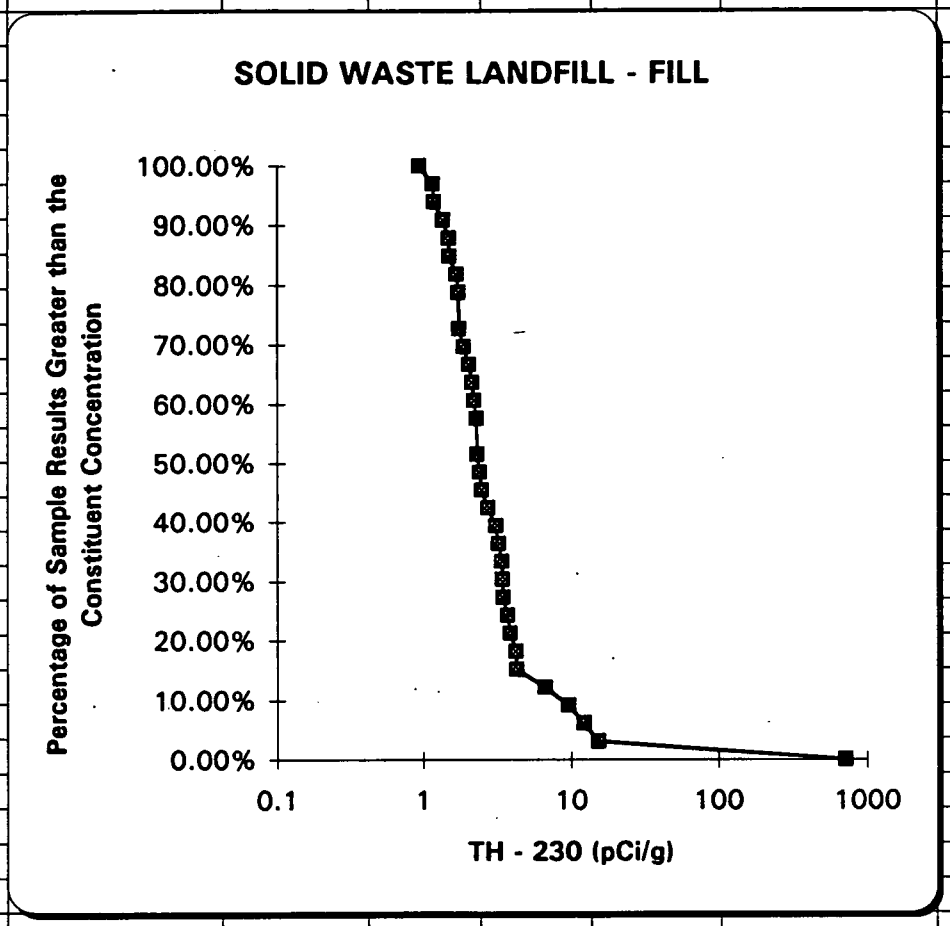

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Thorium-232	11036	8.22	pci/g	-	8.22	100.00%
067393	Thorium-232	1808	3.59	pci/g	-	3.59	96.77%
111300	Thorium-232	SWL-SS-04	2.5	pci/g	-	2.5	93.54%
067266	Thorium-232	1718	2.22	pci/g	-	2.22	90.32%
111476	Thorium-232	1983	2.07	pci/g	-	2.07	87.09%
115350	Thorium-232	1988	1.96	pci/g	-	1.96	83.87%
115389	Thorium-232	11041	1.75	pci/g	-	1.75	80.64%
067718	Thorium-232	1888	1.58	pci/g	-	1.58	77.41%
115329	Thorium-232	1990	1.37	pci/g	J	1.37	74.19%
115343	Thorium-232	1992	1.32	pci/g	J	1.32	70.96%
067275	Thorium-232	1718	1.25	pci/g	-	1.25	64.51%
111301	Thorium-232	SWL-SS-05	1.25	pci/g	-	1.25	64.51%
067398	Thorium-232	1808	1.12	pci/g	-	1.12	61.29%
111307	Thorium-232	SWL-SS-09	1.07	pci/g	-	1.07	54.83%
115357	Thorium-232	1987	1.07	pci/g	-	1.07	54.83%
111298	Thorium-232	SWL-SS-03	1.04	pci/g	-	1.04	48.38%
111492	Thorium-232	SWL-SS-08	1.04	pci/g	J	1.04	48.38%
111484	Thorium-232	1982	1.02	pci/g	-	1.02	45.16%
115371	Thorium-232	11037	1	pci/g	J	1	41.93%
111297	Thorium-232	SWL-SS-02	0.981	pci/g	-	0.981	38.70%
115319	Thorium-232	1991	0.96	pci/g	J	0.96	35.48%
115339	Thorium-232	1993	0.88	pci/g	-	0.88	32.25%
111477	Thorium-232	1983	0.87	pci/g	-	0.87	29.03%
111293	Thorium-232	SWL-SS-01	0.787	pci/g	-	0.787	25.80%
111466	Thorium-232	1984	0.78	pci/g	-	0.78	22.58%
115384	Thorium-232	11039	0.76	pci/g	J	0.76	19.35%
111303	Thorium-232	SWL-SS-06	0.742	pci/g	-	0.742	16.12%
067230	Thorium-232	1721	0.711	pci/g	-	0.711	12.90%
111441	Thorium-232	1985	0.66	pci/g	-	0.66	9.67%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067286	Thorium-232	1719	0.64	pci/g	-	0.64	6.45%
111304	Thorium-232	SWL-SS-07	0.601	pci/g	-	0.601	3.22%
067251	Thorium-232	1722	1	pci/g	U	0.5	0.00%

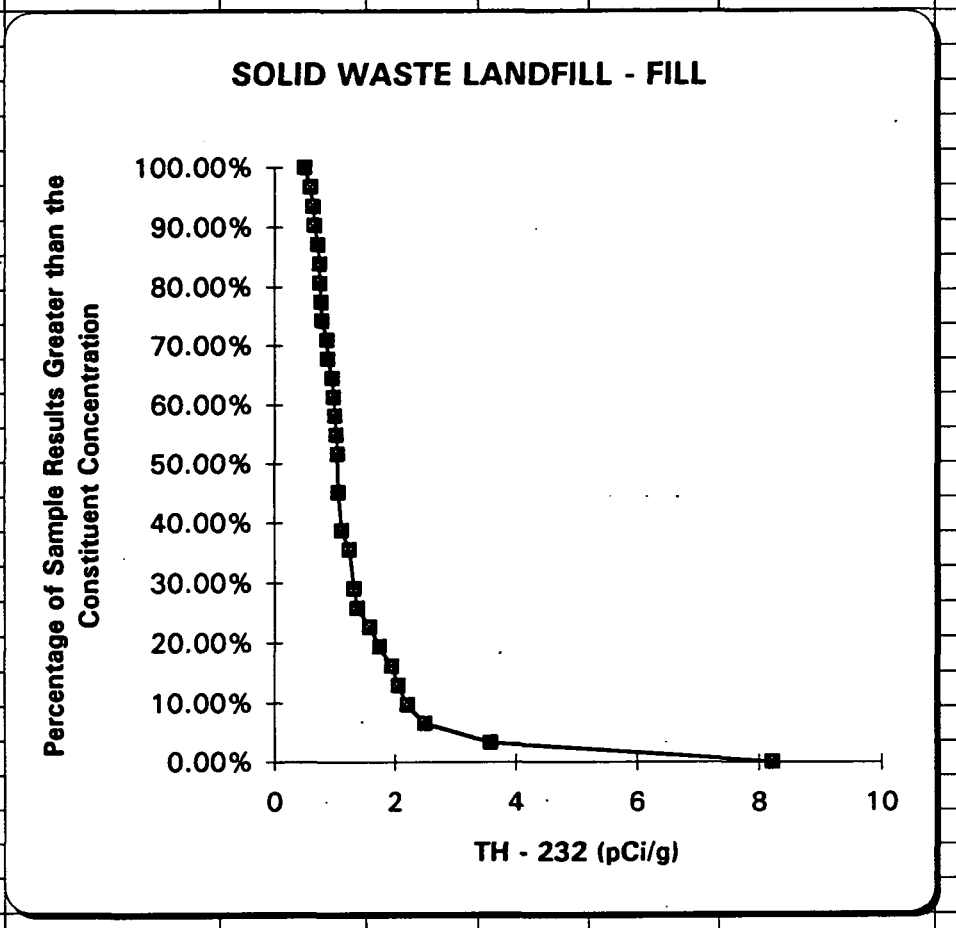

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Uranium, Total	11036	1770	mg/kg	-	1770	100.00%
067251	Uranium, Total	1722	940	mg/kg	J	940	97.36%
115329	Uranium, Total	1990	446	mg/kg	-	446	94.73%
067292	Uranium, Total	1719	393	mg/kg	J	393	92.10%
115384	Uranium, Total	11039	375	mg/kg	-	375	89.47%
111298	Uranium, Total	SWL-SS-03	194	mg/kg	-	194	86.84%
115343	Uranium, Total	1992	191	mg/kg	-	191	84.21%
067306	Uranium, Total	1720	150	mg/kg	J	150	81.57%
111301	Uranium, Total	SWL-SS-05	143	mg/kg	-	143	78.94%
067275	Uranium, Total	1718	124	mg/kg	J	124	76.31%
111297	Uranium, Total	SWL-SS-02	114	mg/kg	-	114	73.68%
115350	Uranium, Total	1988	109	mg/kg	-	109	71.05%
111492	Uranium, Total	SWL-SS-08	97	mg/kg	-	97	68.42%
111476	Uranium, Total	1983	94.3	mg/kg	-	94.3	65.78%
111300	Uranium, Total	SWL-SS-04	90.8	mg/kg	-	90.8	63.15%
067266	Uranium, Total	1718	67.2	mg/kg	J	67.2	60.52%
067398	Uranium, Total	1808	66.8	mg/kg	J	66.8	57.89%
111484	Uranium, Total	1982	64.8	mg/kg	-	64.8	55.26%
111441	Uranium, Total	1985	62.3	mg/kg	-	62.3	52.63%
115389	Uranium, Total	11041	40.7	mg/kg	J	40.7	50.00%
111293	Uranium, Total	SWL-SS-01	39.8	mg/kg	-	39.8	47.36%
115339	Uranium, Total	1993	38.9	mg/kg	-	38.9	44.73%
111477	Uranium, Total	1983	36.8	mg/kg	-	36.8	42.10%
115362	Uranium, Total	1989	33.5	mg/kg	-	33.5	39.47%
115357	Uranium, Total	1987	28.8	mg/kg	-	28.8	36.84%
111307	Uranium, Total	SWL-SS-09	27.5	mg/kg	J	27.5	34.21%
115319	Uranium, Total	1991	25.4	mg/kg	J	25.4	31.57%
111310	Uranium, Total	SWL-SS-11	19.5	mg/kg	J	19.5	28.94%
067718	Uranium, Total	1888	19	mg/kg	J	19	26.31%
111312	Uranium, Total	SWL-SS-12	18.7	mg/kg	-	18.7	23.68%
111466	Uranium, Total	1984	13.3	mg/kg	J	13.3	21.05%
067310	Uranium, Total	1720	13	mg/kg	J	13	18.42%
067286	Uranium, Total	1719	10.6	mg/kg	J	10.6	15.78%
111309	Uranium, Total	SWL-SS-10	10.5	mg/kg	J	10.5	13.15%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111303	Uranium, Total	SWL-SS-06	9.77	mg/kg	J	9.77	10.52%
115392	Uranium, Total	11040	8.49	mg/kg	J	8.49	7.89%
111304	Uranium, Total	SWL-SS-07	6.86	mg/kg	J	6.86	5.26%
067230	Uranium, Total	1721	6.7	mg/kg	-	6.7	2.63%
115371	Uranium, Total	11037	5.01	mg/kg	J	5.01	0.00%

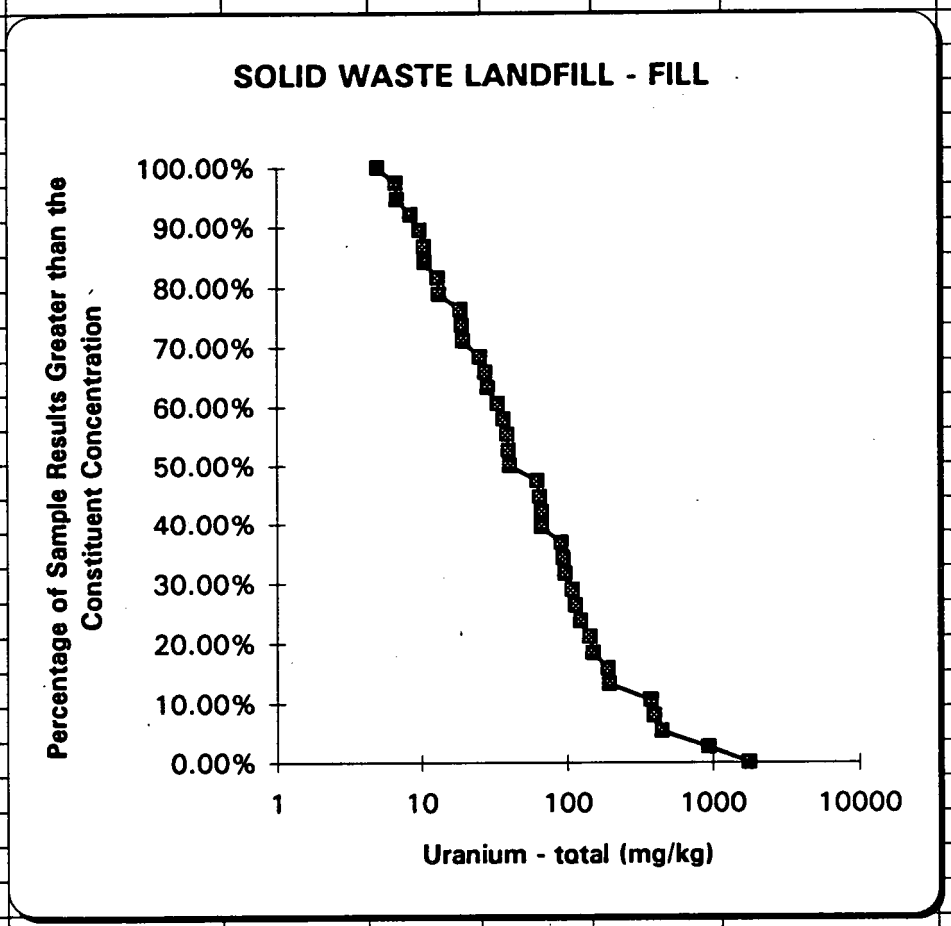

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Uranium-234	11036	553	pci/g	-	553	100.00%
067251	Uranium-234	1722	334	pci/g	J	334	97.43%
115384	Uranium-234	11039	97	pci/g	J	97	94.87%
115329	Uranium-234	1990	71.2	pci/g	-	71.2	92.30%
111301	Uranium-234	SWL-SS-05	48.9	pci/g	-	48.9	89.74%
111298	Uranium-234	SWL-SS-03	33.1	pci/g	-	33.1	87.17%
111476	Uranium-234	1983	32	pci/g	-	32	84.61%
115350	Uranium-234	1988	24.6	pci/g	-	24.6	82.05%
067266	Uranium-234	1718	23.3	pci/g	J	23.3	79.48%
111300	Uranium-234	SWL-SS-04	22.2	pci/g	-	22.2	76.92%
067292	Uranium-234	1719	20.5	pci/g	-	20.5	74.35%
067306	Uranium-234	1720	18.5	pci/g	J	18.5	71.79%
115343	Uranium-234	1992	18.2	pci/g	-	18.2	69.23%
067393	Uranium-234	1808	17.6	pci/g	J	17.6	66.66%
111297	Uranium-234	SWL-SS-02	13.5	pci/g	-	13.5	64.10%
111492	Uranium-234	SWL-SS-08	12.4	pci/g	-	12.4	61.53%
111441	Uranium-234	1985	11.57	pci/g	-	11.57	58.97%
111484	Uranium-234	1982	11.3	pci/g	-	11.3	56.41%
067275	Uranium-234	1718	8.7	pci/g	J	8.7	53.84%
115389	Uranium-234	11041	8.27	pci/g	J	8.27	51.28%
115339	Uranium-234	1993	7.33	pci/g	-	7.33	48.71%
111307	Uranium-234	SWL-SS-09	6.7	pci/g	-	6.7	46.15%
067398	Uranium-234	1808	6.26	pci/g	J	6.26	43.58%
111293	Uranium-234	SWL-SS-01	5.94	pci/g	-	5.94	41.02%
115362	Uranium-234	1989	5.66	pci/g	-	5.66	38.46%
067286	Uranium-234	1719	5.53	pci/g	-	5.53	35.89%
111312	Uranium-234	SWL-SS-12	5.46	pci/g	-	5.46	33.33%
111310	Uranium-234	SWL-SS-11	4.97	pci/g	-	4.97	30.76%
067718	Uranium-234	1888	4.1	pci/g	-	4.1	28.20%
111477	Uranium-234	1983	3.7	pci/g	-	3.7	25.64%
115357	Uranium-234	1987	3.56	pci/g	-	3.56	23.07%
115319	Uranium-234	1991	2.61	pci/g	J	2.61	20.51%
111309	Uranium-234	SWL-SS-10	2.28	pci/g	-	2.28	17.94%
111303	Uranium-234	SWL-SS-06	1.83	pci/g	-	1.83	15.38%
111466	Uranium-234	1984	1.639	pci/g	J	1.639	12.82%
111304	Uranium-234	SWL-SS-07	1.43	pci/g	-	1.43	10.25%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067230	Uranium-234	1721	1.39	pci/g	J	1.39	7.69%
067310	Uranium-234	1720	1.35	pci/g	J	1.35	5.12%
115392	Uranium-234	11040	1.32	pci/g	J	1.32	2.56%
115371	Uranium-234	11037	0.95	pci/g	-	0.95	0.00%

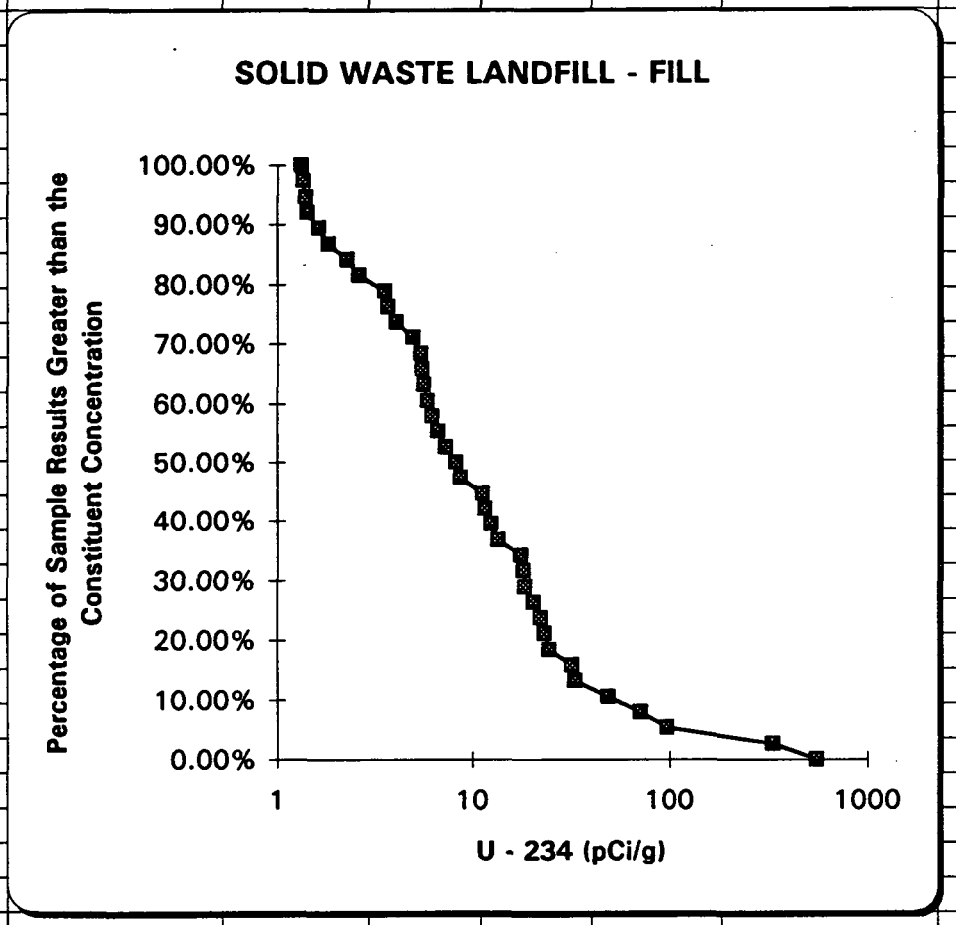

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Uranium-235/236	11036	28.9	pci/g	-	28.9	100.00%
067251	Uranium-235/236	1722	22.4	pci/g	J	22.4	97.43%
115329	Uranium-235/236	1990	8.04	pci/g	-	8.04	94.87%
115384	Uranium-235/236	11039	5.72	pci/g	J	5.72	92.30%
067292	Uranium-235/236	1719	4.5	pci/g	-	4.5	89.74%
111301	Uranium-235/236	SWL-SS-05	3.33	pci/g	-	3.33	87.17%
111298	Uranium-235/236	SWL-SS-03	1.92	pci/g	-	1.92	84.61%
111476	Uranium-235/236	1983	1.66	pci/g	-	1.66	82.05%
067266	Uranium-235/236	1718	1.65	pci/g	J	1.65	79.48%
115350	Uranium-235/236	1988	1.43	pci/g	-	1.43	76.92%
067306	Uranium-235/236	1720	1.27	pci/g	J	1.27	74.35%
111300	Uranium-235/236	SWL-SS-04	1.26	pci/g	-	1.26	71.79%
067286	Uranium-235/236	1719	1.23	pci/g	-	1.23	69.23%
067393	Uranium-235/236	1808	1.17	pci/g	J	1.17	66.66%
115343	Uranium-235/236	1992	1.14	pci/g	-	1.14	64.10%
067275	Uranium-235/236	1718	1.13	pci/g	J	1.13	61.53%
111297	Uranium-235/236	SWL-SS-02	0.816	pci/g	-	0.816	58.97%
111492	Uranium-235/236	SWL-SS-08	0.809	pci/g	-	0.809	56.41%
111441	Uranium-235/236	1985	0.68	pci/g	-	0.68	53.84%
067398	Uranium-235/236	1808	0.606	pci/g	J	0.606	51.28%
111293	Uranium-235/236	SWL-SS-01	0.512	pci/g	J	0.512	48.71%
111307	Uranium-235/236	SWL-SS-09	0.398	pci/g	J	0.398	46.15%
115339	Uranium-235/236	1993	0.382	pci/g	J	0.382	41.02%
115389	Uranium-235/236	11041	0.382	pci/g	J	0.382	41.02%
115362	Uranium-235/236	1989	0.37	pci/g	J	0.37	38.46%
111312	Uranium-235/236	SWL-SS-12	0.346	pci/g	J	0.346	35.89%
115357	Uranium-235/236	1987	0.301	pci/g	J	0.301	33.33%
067718	Uranium-235/236	1888	0.6	pci/g	U	0.3	23.07%
067230	Uranium-235/236	1721	0.6	pci/g	UJ	0.3	23.07%
067310	Uranium-235/236	1720	0.6	pci/g	UJ	0.3	23.07%
111484	Uranium-235/236	1982	0.6	pci/g	UJ	0.3	23.07%
111310	Uranium-235/236	SWL-SS-11	0.288	pci/g	-	0.288	20.51%
111477	Uranium-235/236	1983	0.22	pci/g	J	0.22	17.94%
115319	Uranium-235/236	1991	0.2	pci/g	J	0.2	15.38%
111303	Uranium-235/236	SWL-SS-06	0.12	pci/g	J	0.12	10.25%
111309	Uranium-235/236	SWL-SS-10	0.12	pci/g	J	0.12	10.25%
115392	Uranium-235/236	11040	0.1	pci/g	J	0.1	7.69%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111466	Uranium-235/236	1984	0.093	pci/g	J	0.093	5.12%
111304	Uranium-235/236	SWL-SS-07	0.0764	pci/g	J	0.0764	2.56%
115371	Uranium-235/236	11037	0.06	pci/g	J	0.06	0.00%

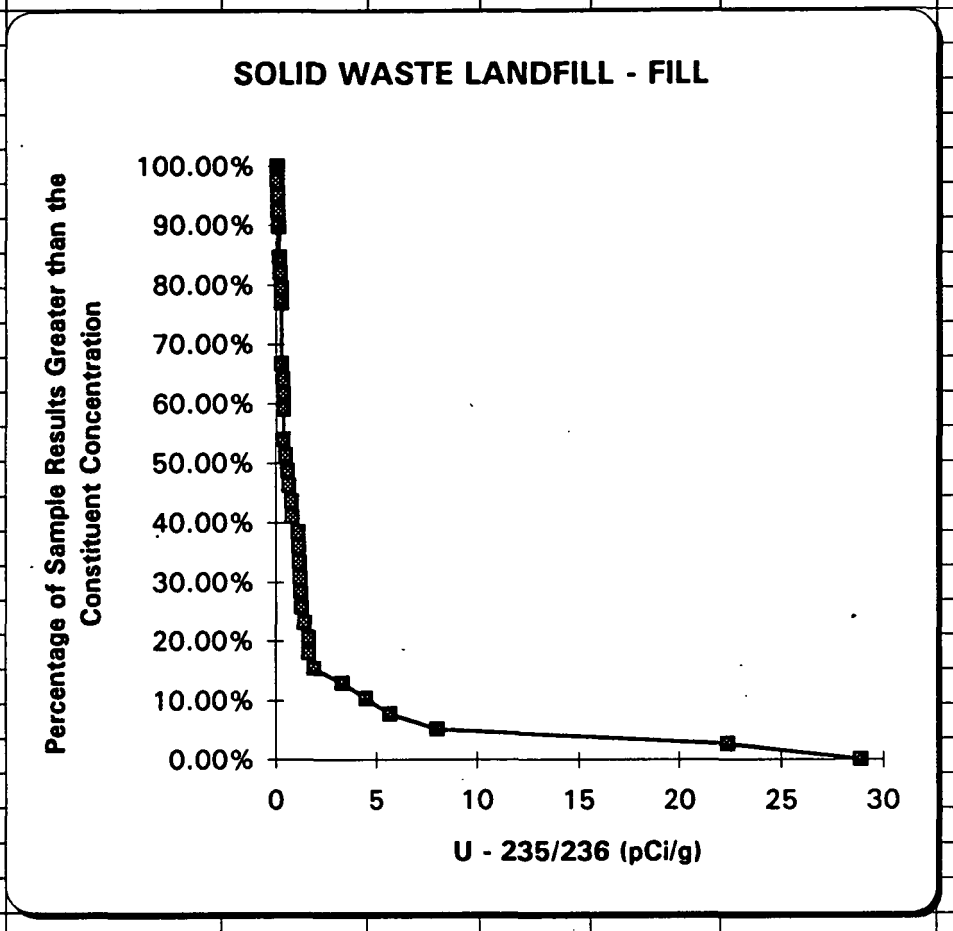

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115381	Uranium-238	11036	577	pci/g	-	577	100.00%
067251	Uranium-238	1722	420	pci/g	-	420	97.43%
115329	Uranium-238	1990	170	pci/g	-	170	94.87%
067292	Uranium-238	1719	141	pci/g	-	141	92.30%
115384	Uranium-238	11039	119	pci/g	J	119	89.74%
111298	Uranium-238	SWL-SS-03	63.8	pci/g	-	63.8	87.17%
115343	Uranium-238	1992	60.4	pci/g	-	60.4	84.61%
111301	Uranium-238	SWL-SS-05	49.4	pci/g	-	49.4	82.05%
067306	Uranium-238	1720	45.2	pci/g	-	45.2	79.48%
067275	Uranium-238	1718	40.8	pci/g	-	40.8	76.92%
115350	Uranium-238	1988	37.8	pci/g	-	37.8	74.35%
111297	Uranium-238	SWL-SS-02	34.6	pci/g	-	34.6	71.79%
111476	Uranium-238	1983	30.3	pci/g	-	30.3	69.23%
111300	Uranium-238	SWL-SS-04	29.4	pci/g	-	29.4	66.66%
111492	Uranium-238	SWL-SS-08	26.9	pci/g	-	26.9	64.10%
067266	Uranium-238	1718	22.1	pci/g	-	22.1	61.53%
067398	Uranium-238	1808	21	pci/g	-	21	58.97%
111484	Uranium-238	1982	20.3	pci/g	-	20.3	56.41%
111441	Uranium-238	1985	19.77	pci/g	-	19.77	53.84%
067393	Uranium-238	1808	17.3	pci/g	-	17.3	51.28%
115339	Uranium-238	1993	15.3	pci/g	-	15.3	48.71%
111293	Uranium-238	SWL-SS-01	13.6	pci/g	-	13.6	46.15%
115389	Uranium-238	11041	12.5	pci/g	J	12.5	43.58%
111477	Uranium-238	1983	10.9	pci/g	-	10.9	41.02%
115362	Uranium-238	1989	10.6	pci/g	-	10.6	38.46%
115357	Uranium-238	1987	9.35	pci/g	-	9.35	35.89%
067286	Uranium-238	1719	8.66	pci/g	-	8.66	33.33%
111307	Uranium-238	SWL-SS-09	8.21	pci/g	-	8.21	30.76%
111310	Uranium-238	SWL-SS-11	6.68	pci/g	-	6.68	28.20%
115319	Uranium-238	1991	6.27	pci/g	J	6.27	25.64%
111312	Uranium-238	SWL-SS-12	5.58	pci/g	-	5.58	23.07%
067718	Uranium-238	1888	5.3	pci/g	-	5.3	20.51%
067310	Uranium-238	1720	3.54	pci/g	-	3.54	17.94%
111309	Uranium-238	SWL-SS-10	2.9	pci/g	-	2.9	15.38%
111303	Uranium-238	SWL-SS-06	2.43	pci/g	-	2.43	12.82%
111304	Uranium-238	SWL-SS-07	2.34	pci/g	-	2.34	10.25%
067230	Uranium-238	1721	2.33	pci/g	-	2.33	7.69%

TABLE A.2-14
SOLID WASTE LANDFILL - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115392	Uranium-238	11040	1.84	pci/g	J	1.84	5.12%
111466	Uranium-238	1984	1.73	pci/g	J	1.73	2.56%
115371	Uranium-238	11037	1.19	pci/g	-	1.19	0.00%

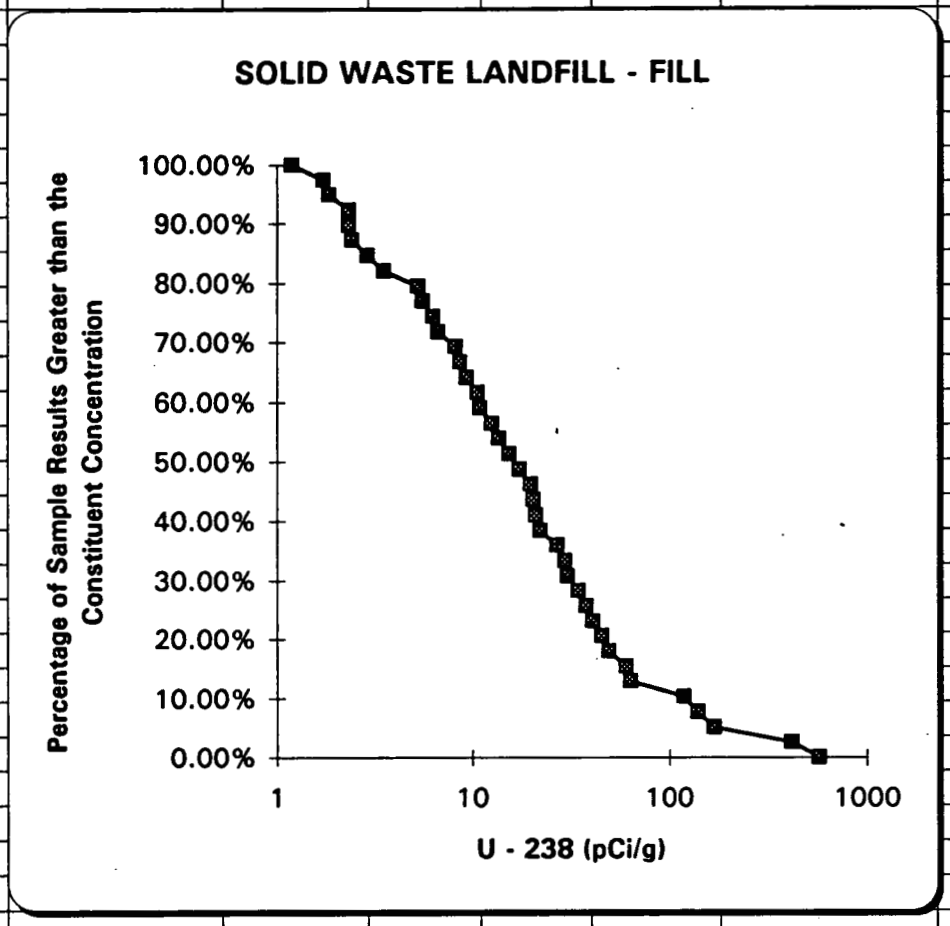

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TABLE A.2-15
SOLID WASTE LANDFILL - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
067312	Antimony	1720	11.9	mg/kg	J	11.9
067312	Arsenic	1720	15.4	mg/kg	-	15.4
067312	Beryllium	1720	0.95	mg/kg	-	0.95
067313	Neptunium-237	1720	0.6	pci/g	U	0.3
067257	Neptunium-237	1722	0.6	pci/g	UJ	0.3
067258	Neptunium-237	1722	0.6	pci/g	UJ	0.3
067400	Neptunium-237	1808	0.6	pci/g	UJ	0.3
067257	Plutonium-238	1722	0.6	pci/g	U	0.3
067258	Plutonium-238	1722	0.6	pci/g	U	0.3
067313	Plutonium-238	1720	0.6	pci/g	UJ	0.3
067400	Plutonium-238	1808	0.6	pci/g	UJ	0.3
067313	Radium-226	1720	1.55	pci/g	J	1.55
067257	Radium-226	1722	1.01	pci/g	-	1.01
067258	Radium-226	1722	0.87	pci/g	-	0.87
067400	Radium-226	1808	0.68	pci/g	J	0.68
067313	Radium-228	1720	1.48	pci/g	J	1.48
067257	Radium-228	1722	1.32	pci/g	-	1.32
067258	Radium-228	1722	0.98	pci/g	-	0.98
067400	Radium-228	1808	0.6	pci/g	J	0.6
067400	Strontium-90	1808	0.5	pci/g	UJ	0.25
067258	Strontium-90	1722	0.9	pci/g	D	0.45
067313	Strontium-90	1720	0.9	pci/g	J	0.9
067257	Strontium-90	1722	1.42	pci/g	-	1.42
067257	Technetium-99	1722	0.9	pci/g	U	0.45
067258	Technetium-99	1722	0.9	pci/g	U	0.45
067313	Technetium-99	1720	0.9	pci/g	U	0.45
067400	Technetium-99	1808	0.9	pci/g	U	0.45
067313	Thorium-228	1720	2.02	pci/g	J	2.02
067400	Thorium-228	1808	1.17	pci/g	J	1.17
067257	Thorium-228	1722	1.09	pci/g	J	1.09
067258	Thorium-228	1722	0.96	pci/g	-	0.96
067258	Thorium-230	1722	3.81	pci/g	-	3.81
067257	Thorium-230	1722	2.4	pci/g	J	2.4
067400	Thorium-230	1808	1.92	pci/g	J	1.92
067313	Thorium-230	1720	1.89	pci/g	J	1.89
067257	Thorium-232	1722	1.2	pci/g	J	1.2
067258	Thorium-232	1722	0.85	pci/g	-	0.85
067400	Thorium-232	1808	0.6	pci/g	U	0.3
067258	Uranium, Total	1722	146	mg/kg	-	146
067257	Uranium, Total	1722	17.5	mg/kg	J	17.5
067313	Uranium, Total	1720	5.83	mg/kg	J	5.83
067400	Uranium, Total	1808	3.21	mg/kg	J	3.21
067258	Uranium-234	1722	30.6	pci/g	-	30.6
067257	Uranium-234	1722	4.51	pci/g	-	4.51
067313	Uranium-234	1720	1.24	pci/g	J	1.24
067400	Uranium-234	1808	0.924	pci/g	J	0.924
067258	Uranium-235/236	1722	2.47	pci/g	-	2.47
067257	Uranium-235/236	1722	0.6	pci/g	U	0.3
067313	Uranium-235/236	1720	0.6	pci/g	UJ	0.3
067400	Uranium-235/236	1808	0.6	pci/g	UJ	0.3
067258	Uranium-238	1722	47.7	pci/g	-	47.7
067257	Uranium-238	1722	6.53	pci/g	-	6.53
067313	Uranium-238	1720	1.81	pci/g	-	1.81
067400	Uranium-238	1808	1.08	pci/g	-	1.08

TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
67300	Antimony	1719	27.3	mg/kg	-	27.3	100%
67740	Antimony	1889	22.6	mg/kg	J	22.6	95.60%
67401	Antimony	1808	20	mg/kg	J	20	91.30%
67234	Antimony	1721	7.7	mg/kg	UJ	3.85	78.20%
67237	Antimony	1721	7.7	mg/kg	UJ	3.85	78.20%
67259	Antimony	1722	7.7	mg/kg	UJ	3.85	78.20%
67295	Antimony	1719	3.8	mg/kg	-	3.8	73.90%
115340	Antimony	1993	1.3	mg/kg	UJ	0.65	69.50%
115390	Antimony	11041	1.2	mg/kg	UJ	0.6	60.80%
115393	Antimony	11040	1.2	mg/kg	UJ	0.6	60.80%
115363	Antimony	1989	1.1	mg/kg	UJ	0.55	52.10%
115385	Antimony	11039	1.1	mg/kg	UJ	0.55	52.10%
115380	Antimony	11036	0.98	mg/kg	UJ	0.49	47.80%
115377	Antimony	11038	0.93	mg/kg	UJ	0.465	43.40%
115372	Antimony	11037	0.87	mg/kg	UJ	0.435	39.10%
115335	Antimony	1990	0.86	mg/kg	UJ	0.43	30.40%
115359	Antimony	1987	0.86	mg/kg	UJ	0.43	30.40%
115351	Antimony	1988	0.79	mg/kg	UJ	0.395	26.00%
111458	Antimony	1986	0.56	mg/kg	UJ	0.28	21.70%
115346	Antimony	1992	0.54	mg/kg	UJ	0.27	17.30%
111468	Antimony	1984	0.53	mg/kg	UJ	0.265	13.00%
115321	Antimony	1991	0.23	mg/kg	UJ	0.115	8.60%
111480	Antimony	1983	0.22	mg/kg	UJ	0.11	.00%
111487	Antimony	1982	0.22	mg/kg	UJ	0.11	.00%

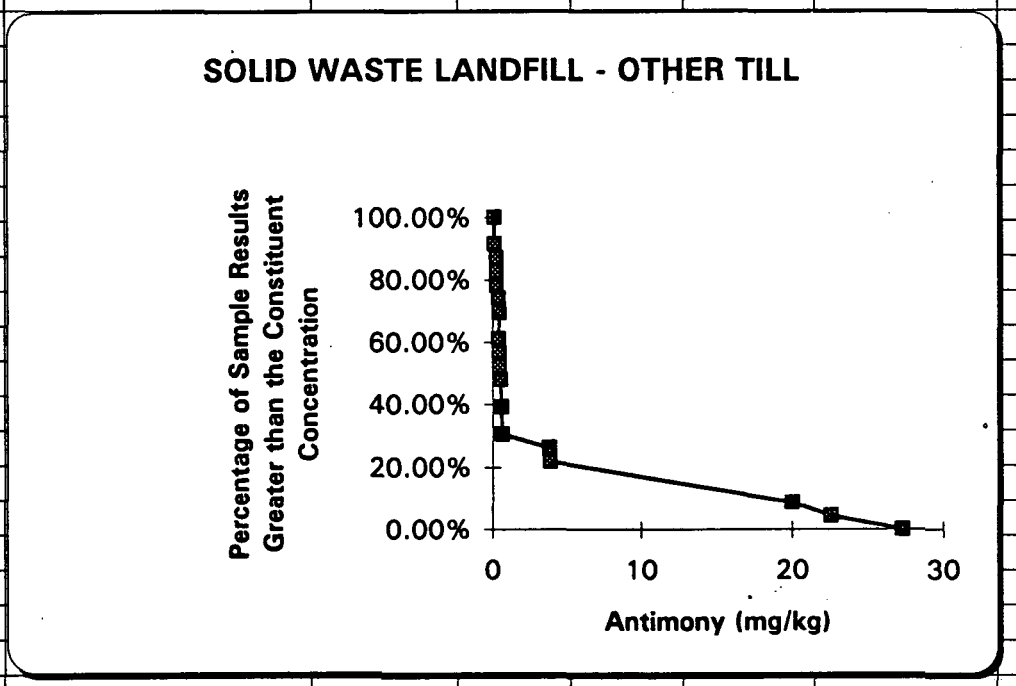

TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
067237	Arsenic	1721	13.8	mg/kg	-	13.8	100.00%
115385	Arsenic	11039	11.5	mg/kg	-	11.5	95.83%
115393	Arsenic	11040	10.4	mg/kg	J	10.4	91.66%
111480	Arsenic	1983	9	mg/kg	-	9	83.33%
067234	Arsenic	1721	9	mg/kg	J	9	83.33%
115351	Arsenic	1988	8.4	mg/kg	-	8.4	75.00%
111468	Arsenic	1984	8.4	mg/kg	J	8.4	75.00%
115321	Arsenic	1991	8.3	mg/kg	-	8.3	70.83%
115377	Arsenic	11038	8.1	mg/kg	-	8.1	66.66%
067259	Arsenic	1722	6.1	mg/kg	-	6.1	62.50%
115372	Arsenic	11037	5.9	mg/kg	-	5.9	58.33%
115340	Arsenic	1993	5.7	mg/kg	-	5.7	50.00%
111458	Arsenic	1986	5.7	mg/kg	J	5.7	50.00%
111487	Arsenic	1982	5.5	mg/kg	-	5.5	45.83%
067300	Arsenic	1719	5.3	mg/kg	J	5.3	41.66%
115346	Arsenic	1992	5.2	mg/kg	-	5.2	37.50%
115359	Arsenic	1987	4.9	mg/kg	-	4.9	29.16%
067295	Arsenic	1719	4.9	mg/kg	J	4.9	29.16%
115380	Arsenic	11036	4.8	mg/kg	-	4.8	25.00%
115335	Arsenic	1990	4.4	mg/kg	-	4.4	16.66%
111448	Arsenic	1985	4.4	mg/kg	J	4.4	16.66%
115390	Arsenic	11041	4.1	mg/kg	-	4.1	12.50%
115363	Arsenic	1989	3.9	mg/kg	-	3.9	8.33%
067401	Arsenic	1808	3.8	mg/kg	-	3.8	4.16%
067740	Arsenic	1889	2.2	mg/kg	-	2.2	0.00%

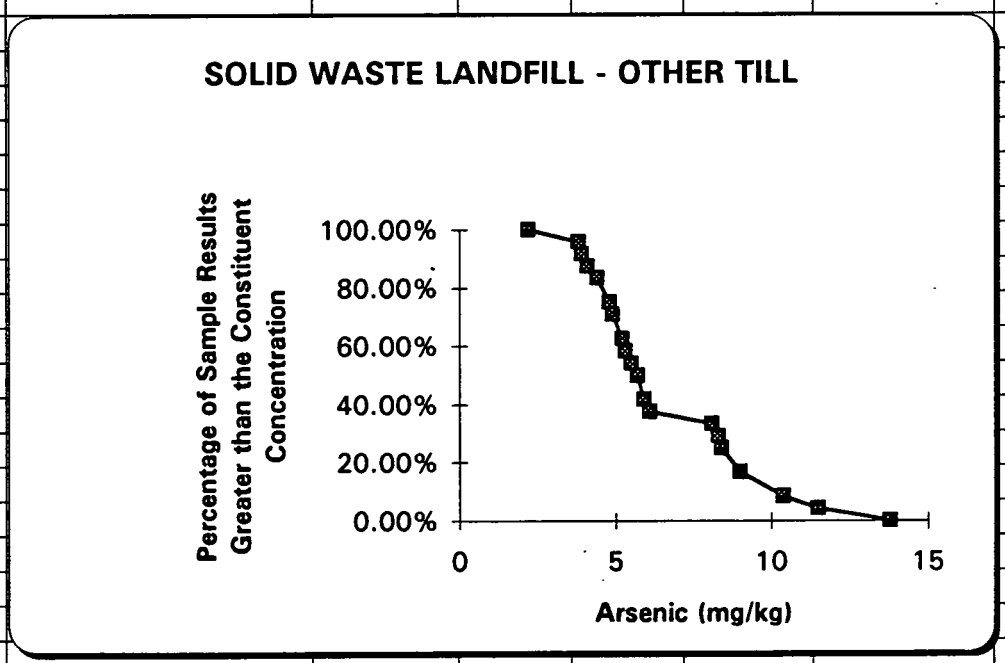

TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
115385	Benzo(a)anthracene	11039	1000	ug/kg	-	1000	100.00%
67234	Benzo(a)anthracene	1721	440	ug/kg	U	440	95.80%
115393	Benzo(a)anthracene	11040	430	ug/kg	U	430	83.30%
67237	Benzo(a)anthracene	1721	430	ug/kg	U	430	83.30%
67259	Benzo(a)anthracene	1722	430	ug/kg	U	430	83.30%
111458	Benzo(a)anthracene	1986	410	ug/kg	U	410	70.80%
111468	Benzo(a)anthracene	1984	410	ug/kg	U	410	70.80%
115377	Benzo(a)anthracene	11038	410	ug/kg	U	410	70.80%
115363	Benzo(a)anthracene	1989	390	ug/kg	U	390	58.30%
115372	Benzo(a)anthracene	11037	390	ug/kg	U	390	58.30%
115390	Benzo(a)anthracene	11041	390	ug/kg	U	390	58.30%
67740	Benzo(a)anthracene	1889	370	ug/kg	U	370	20.80%
111487	Benzo(a)anthracene	1982	370	ug/kg	U	370	20.80%
115321	Benzo(a)anthracene	1991	370	ug/kg	U	370	20.80%
115335	Benzo(a)anthracene	1990	370	ug/kg	U	370	20.80%
115340	Benzo(a)anthracene	1993	370	ug/kg	U	370	20.80%
115346	Benzo(a)anthracene	1992	370	ug/kg	U	370	20.80%
115351	Benzo(a)anthracene	1988	370	ug/kg	U	370	20.80%
115359	Benzo(a)anthracene	1987	370	ug/kg	U	370	20.80%
115380	Benzo(a)anthracene	11036	370	ug/kg	U	370	20.80%
111480	Benzo(a)anthracene	1983	360	ug/kg	U	360	16.60%
67295	Benzo(a)anthracene	1719	290	ug/kg	J	290	12.50%
111448	Benzo(a)anthracene	1985	380	ug/kg	UJ	190	4.10%
67401	Benzo(a)anthracene	1808	380	ug/kg	UJ	190	4.10%
67300	Benzo(a)anthracene	1719	72	ug/kg	J	72	.00%

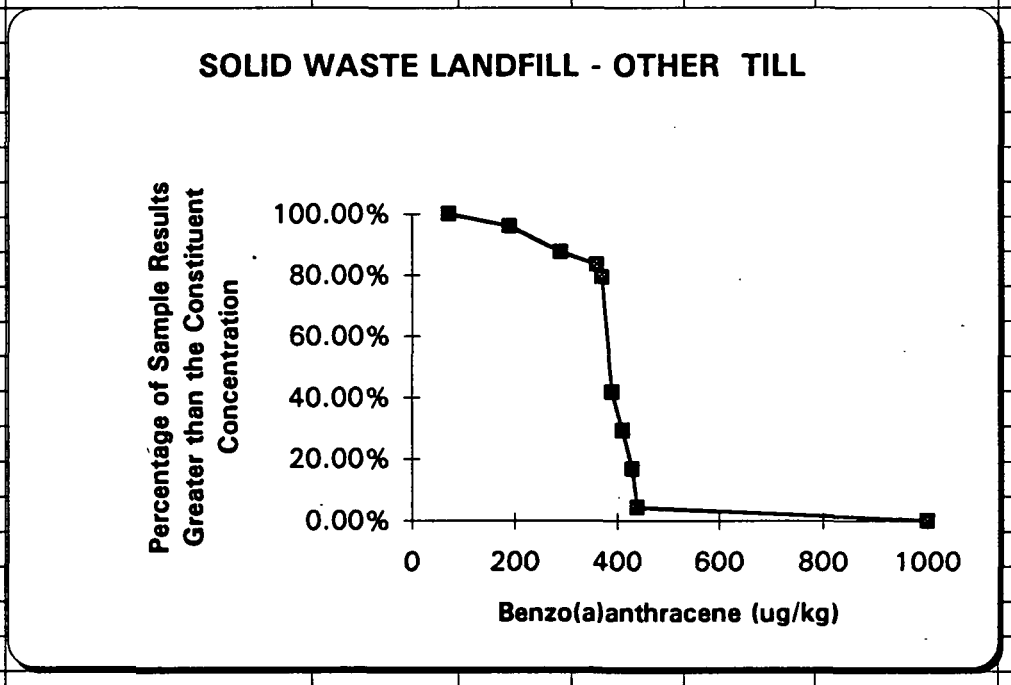

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TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
115385	Benzo(a)pyrene	11039	760	ug/kg	-	760	100.00%
067295	Benzo(a)pyrene	1719	290	ug/kg	J	290	95.83%
067234	Benzo(a)pyrene	1721	440	ug/kg	U	220	91.66%
067237	Benzo(a)pyrene	1721	430	ug/kg	U	215	79.16%
067259	Benzo(a)pyrene	1722	430	ug/kg	U	215	79.16%
115393	Benzo(a)pyrene	11040	430	ug/kg	U	215	79.16%
111458	Benzo(a)pyrene	1986	410	ug/kg	U	205	66.66%
111468	Benzo(a)pyrene	1984	410	ug/kg	U	205	66.66%
115377	Benzo(a)pyrene	11038	410	ug/kg	U	205	66.66%
115363	Benzo(a)pyrene	1989	390	ug/kg	U	195	54.16%
115372	Benzo(a)pyrene	11037	390	ug/kg	U	195	54.16%
115390	Benzo(a)pyrene	11041	390	ug/kg	U	195	54.16%
067401	Benzo(a)pyrene	1808	380	ug/kg	UJ	190	45.83%
111448	Benzo(a)pyrene	1985	380	ug/kg	UJ	190	45.83%
067300	Benzo(a)pyrene	1719	370	ug/kg	U	185	4.16%
067740	Benzo(a)pyrene	1889	370	ug/kg	U	185	4.16%
111487	Benzo(a)pyrene	1982	370	ug/kg	U	185	4.16%
115321	Benzo(a)pyrene	1991	370	ug/kg	U	185	4.16%
115335	Benzo(a)pyrene	1990	370	ug/kg	U	185	4.16%
115340	Benzo(a)pyrene	1993	370	ug/kg	U	185	4.16%
115346	Benzo(a)pyrene	1992	370	ug/kg	U	185	4.16%
115351	Benzo(a)pyrene	1988	370	ug/kg	U	185	4.16%
115359	Benzo(a)pyrene	1987	370	ug/kg	U	185	4.16%
115380	Benzo(a)pyrene	11036	370	ug/kg	U	185	4.16%
111480	Benzo(a)pyrene	1983	360	ug/kg	U	180	0.00%

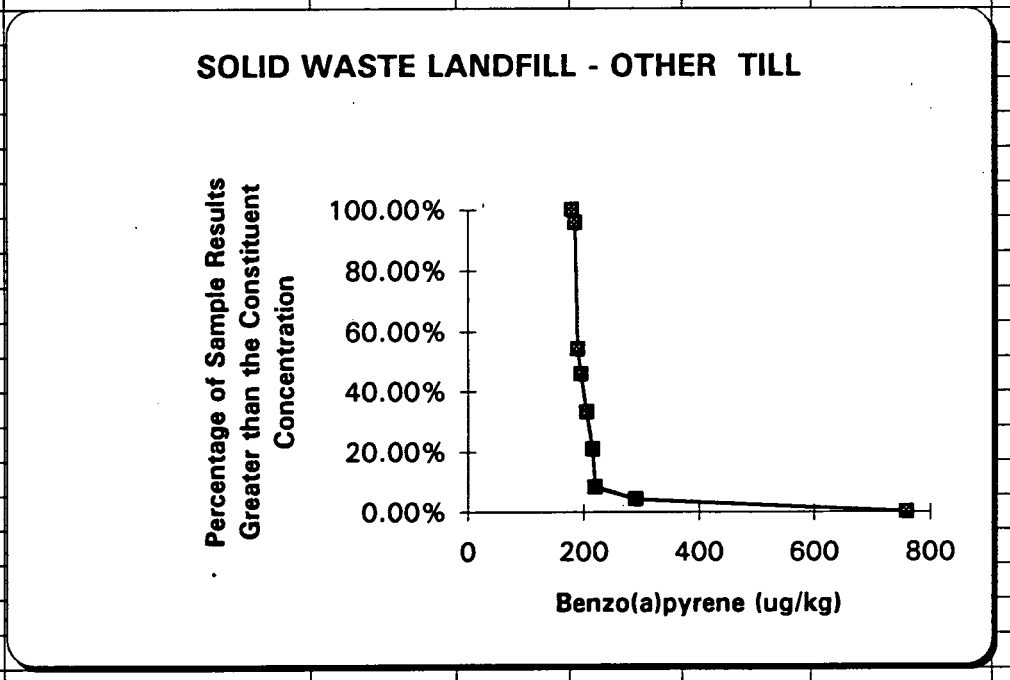

TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
115385	Benzo(b)fluoranthene	11039	1200	ug/kg	-	1200	100.00%
067295	Benzo(b)fluoranthene	1719	260	ug/kg	J	260	95.83%
067234	Benzo(b)fluoranthene	1721	440	ug/kg	U	220	91.66%
067237	Benzo(b)fluoranthene	1721	430	ug/kg	U	215	79.16%
067259	Benzo(b)fluoranthene	1722	430	ug/kg	U	215	79.16%
115393	Benzo(b)fluoranthene	11040	430	ug/kg	U	215	79.16%
111458	Benzo(b)fluoranthene	1986	410	ug/kg	U	205	66.66%
111468	Benzo(b)fluoranthene	1984	410	ug/kg	U	205	66.66%
115377	Benzo(b)fluoranthene	11038	410	ug/kg	U	205	66.66%
115363	Benzo(b)fluoranthene	1989	390	ug/kg	U	195	54.16%
115372	Benzo(b)fluoranthene	11037	390	ug/kg	U	195	54.16%
115390	Benzo(b)fluoranthene	11041	390	ug/kg	U	195	54.16%
067401	Benzo(b)fluoranthene	1808	380	ug/kg	UJ	190	45.83%
111448	Benzo(b)fluoranthene	1985	380	ug/kg	UJ	190	45.83%
067740	Benzo(b)fluoranthene	1889	370	ug/kg	U	185	8.33%
111487	Benzo(b)fluoranthene	1982	370	ug/kg	U	185	8.33%
115321	Benzo(b)fluoranthene	1991	370	ug/kg	U	185	8.33%
115335	Benzo(b)fluoranthene	1990	370	ug/kg	U	185	8.33%
115340	Benzo(b)fluoranthene	1993	370	ug/kg	U	185	8.33%
115346	Benzo(b)fluoranthene	1992	370	ug/kg	U	185	8.33%
115351	Benzo(b)fluoranthene	1988	370	ug/kg	U	185	8.33%
115359	Benzo(b)fluoranthene	1987	370	ug/kg	U	185	8.33%
115380	Benzo(b)fluoranthene	11036	370	ug/kg	U	185	8.33%
111480	Benzo(b)fluoranthene	1983	360	ug/kg	U	180	4.16%
067300	Benzo(b)fluoranthene	1719	150	ug/kg	J	150	0.00%

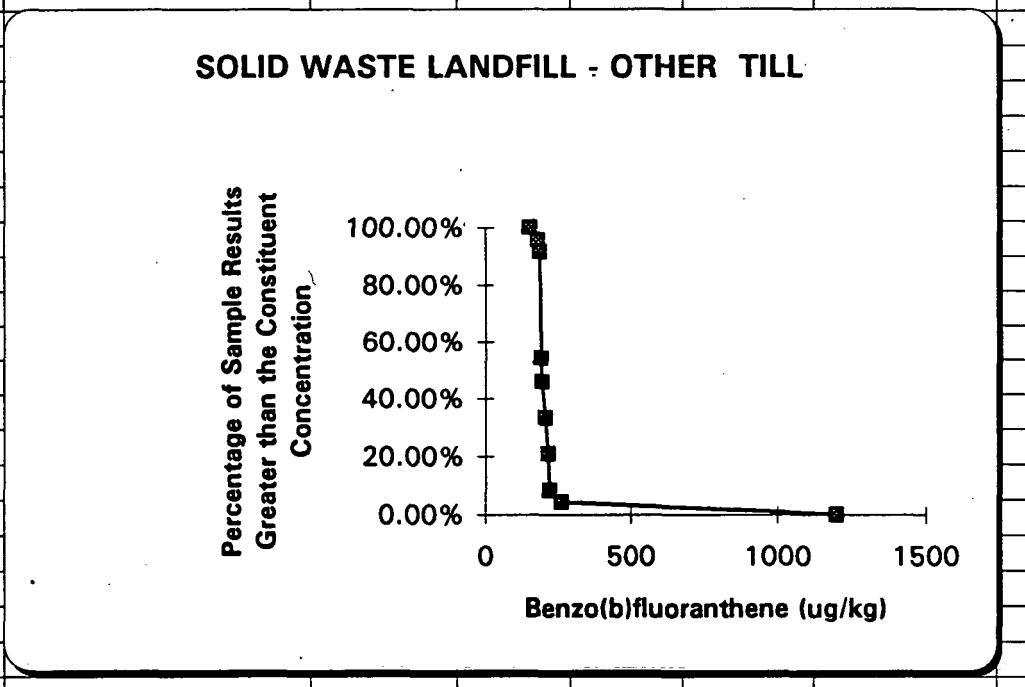

TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
111458	Beryllium	1986	1.4	mg/kg	-	1.4	87.50%
111468	Beryllium	1984	1.4	mg/kg	-	1.4	87.50%
115346	Beryllium	1992	1.4	mg/kg	-	1.4	87.50%
115351	Beryllium	1988	1.4	mg/kg	-	1.4	87.50%
111448	Beryllium	1985	1.3	mg/kg	-	1.3	83.33%
115335	Beryllium	1990	1	mg/kg	J	1	79.16%
067237	Beryllium	1721	0.93	mg/kg	-	0.93	75.00%
067234	Beryllium	1721	0.92	mg/kg	J	0.92	70.83%
115359	Beryllium	1987	0.86	mg/kg	-	0.86	66.66%
115321	Beryllium	1991	0.84	mg/kg	-	0.84	62.50%
067401	Beryllium	1808	0.75	mg/kg	-	0.75	58.33%
067740	Beryllium	1889	0.73	mg/kg	-	0.73	54.16%
067300	Beryllium	1719	0.71	mg/kg	J	0.71	50.00%
115393	Beryllium	11040	0.65	mg/kg	-	0.65	45.83%
067259	Beryllium	1722	0.63	mg/kg	-	0.63	41.66%
115377	Beryllium	11038	0.54	mg/kg	-	0.54	37.50%
115363	Beryllium	1989	0.5	mg/kg	-	0.5	33.33%
115385	Beryllium	11039	0.49	mg/kg	-	0.49	29.16%
115340	Beryllium	1993	0.43	mg/kg	-	0.43	25.00%
111487	Beryllium	1982	0.39	mg/kg	-	0.39	20.83%
111480	Beryllium	1983	0.38	mg/kg	-	0.38	16.66%
115390	Beryllium	11041	0.46	mg/kg	U	0.23	12.50%
067295	Beryllium	1719	0.2	mg/kg	J	0.2	8.33%
115380	Beryllium	11036	0.39	mg/kg	U	0.195	4.16%
115372	Beryllium	11037	0.35	mg/kg	U	0.175	0.00%

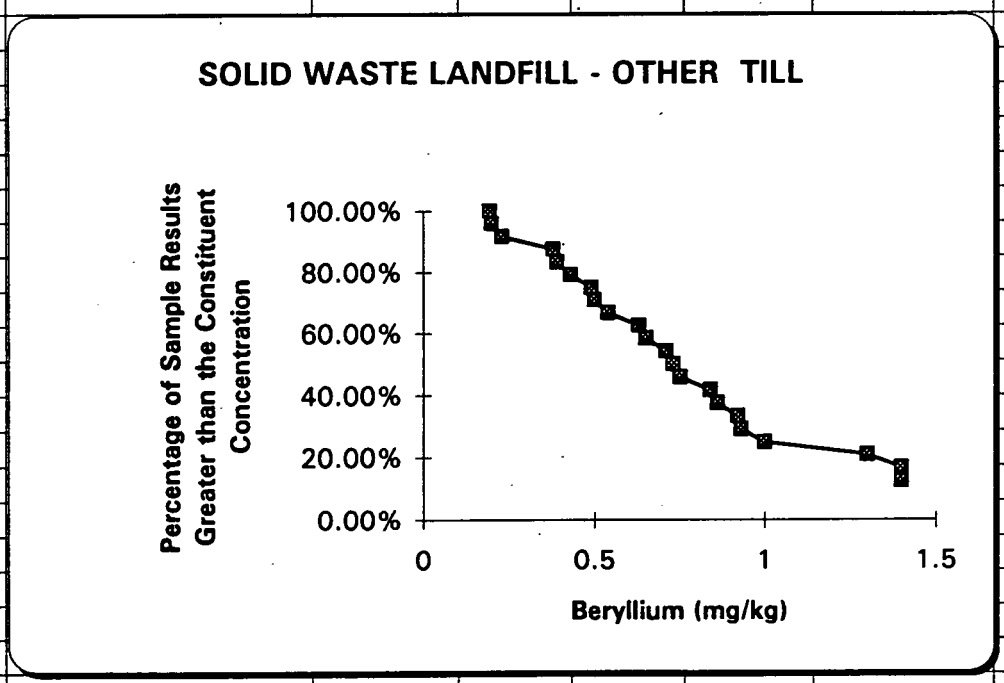

TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
115393	Carbazole	11040	430	ug/kg	U	215	100.00%
115385	Carbazole	11039	210	ug/kg	J	210	94.11%
111458	Carbazole	1986	410	ug/kg	U	205	76.47%
111468	Carbazole	1984	410	ug/kg	U	205	76.47%
115377	Carbazole	11038	410	ug/kg	U	205	76.47%
115363	Carbazole	1989	390	ug/kg	U	195	58.82%
115372	Carbazole	11037	390	ug/kg	U	195	58.82%
115390	Carbazole	11041	390	ug/kg	U	195	58.82%
111448	Carbazole	1985	380	ug/kg	UJ	190	52.94%
111487	Carbazole	1982	370	ug/kg	U	185	5.88%
115321	Carbazole	1991	370	ug/kg	U	185	5.88%
115335	Carbazole	1990	370	ug/kg	U	185	5.88%
115340	Carbazole	1993	370	ug/kg	U	185	5.88%
115346	Carbazole	1992	370	ug/kg	U	185	5.88%
115351	Carbazole	1988	370	ug/kg	U	185	5.88%
115359	Carbazole	1987	370	ug/kg	U	185	5.88%
115380	Carbazole	11036	370	ug/kg	U	185	5.88%
111480	Carbazole	1983	360	ug/kg	U	180	0.00%

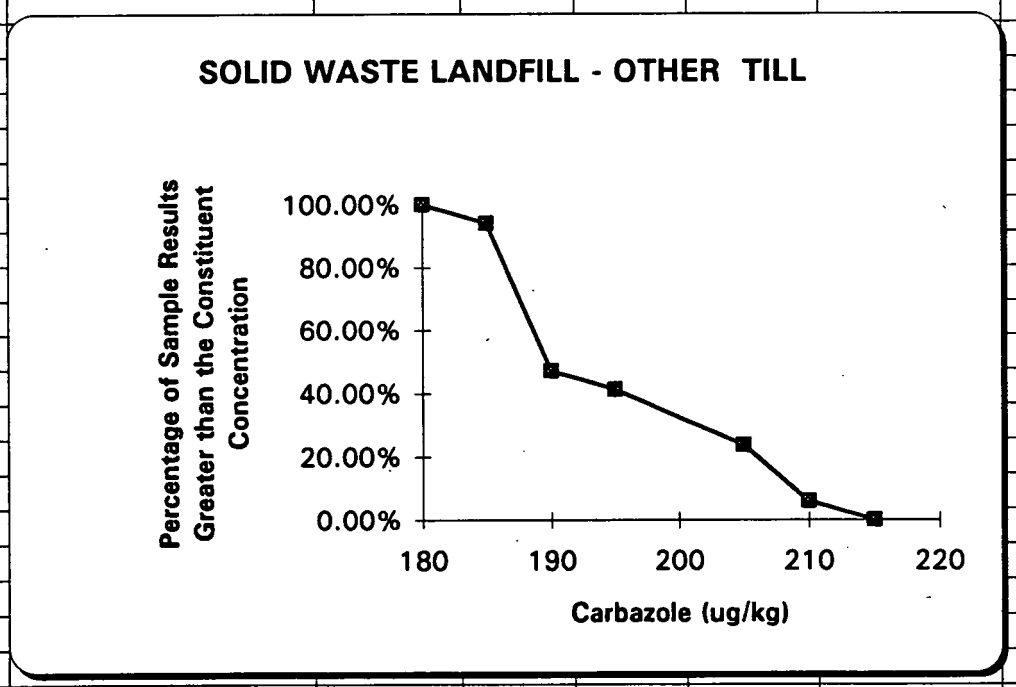

TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
067234	Dibenzo(a,h)anthracene	1721	440	ug/kg	U	220	100.00%
067237	Dibenzo(a,h)anthracene	1721	430	ug/kg	U	215	87.50%
067259	Dibenzo(a,h)anthracene	1722	430	ug/kg	U	215	87.50%
115393	Dibenzo(a,h)anthracene	11040	430	ug/kg	U	215	87.50%
111458	Dibenzo(a,h)anthracene	1986	410	ug/kg	U	205	75.00%
111468	Dibenzo(a,h)anthracene	1984	410	ug/kg	U	205	75.00%
115377	Dibenzo(a,h)anthracene	11038	410	ug/kg	U	205	75.00%
115363	Dibenzo(a,h)anthracene	1989	390	ug/kg	U	195	62.50%
115372	Dibenzo(a,h)anthracene	11037	390	ug/kg	U	195	62.50%
115390	Dibenzo(a,h)anthracene	11041	390	ug/kg	U	195	62.50%
067401	Dibenzo(a,h)anthracene	1808	380	ug/kg	UJ	190	54.16%
111448	Dibenzo(a,h)anthracene	1985	380	ug/kg	UJ	190	54.16%
067300	Dibenzo(a,h)anthracene	1719	370	ug/kg	U	185	12.50%
067740	Dibenzo(a,h)anthracene	1889	370	ug/kg	U	185	12.50%
111487	Dibenzo(a,h)anthracene	1982	370	ug/kg	U	185	12.50%
115321	Dibenzo(a,h)anthracene	1991	370	ug/kg	U	185	12.50%
115335	Dibenzo(a,h)anthracene	1990	370	ug/kg	U	185	12.50%
115340	Dibenzo(a,h)anthracene	1993	370	ug/kg	U	185	12.50%
115346	Dibenzo(a,h)anthracene	1992	370	ug/kg	U	185	12.50%
115351	Dibenzo(a,h)anthracene	1988	370	ug/kg	U	185	12.50%
115359	Dibenzo(a,h)anthracene	1987	370	ug/kg	U	185	12.50%
115380	Dibenzo(a,h)anthracene	11036	370	ug/kg	U	185	12.50%
115385	Dibenzo(a,h)anthracene	11039	180	ug/kg	J	180	4.16%
111480	Dibenzo(a,h)anthracene	1983	360	ug/kg	U	180	4.16%
067295	Dibenzo(a,h)anthracene	1719	110	ug/kg	J	110	0.00%

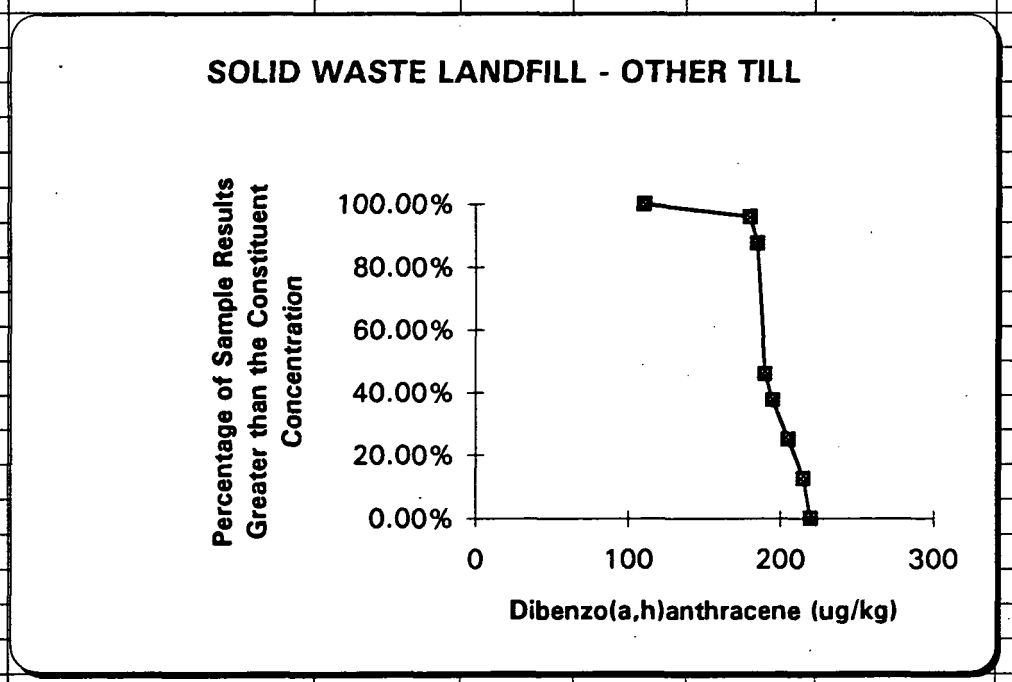

TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
115385	Indeno(1,2,3-cd)pyrene	11039	410	ug/kg	J	410	100.00%
067234	Indeno(1,2,3-cd)pyrene	1721	440	ug/kg	U	220	95.83%
067237	Indeno(1,2,3-cd)pyrene	1721	430	ug/kg	U	215	83.33%
067259	Indeno(1,2,3-cd)pyrene	1722	430	ug/kg	U	215	83.33%
115393	Indeno(1,2,3-cd)pyrene	11040	430	ug/kg	U	215	83.33%
067295	Indeno(1,2,3-cd)pyrene	1719	210	ug/kg	J	210	79.16%
111458	Indeno(1,2,3-cd)pyrene	1986	410	ug/kg	U	205	66.66%
111468	Indeno(1,2,3-cd)pyrene	1984	410	ug/kg	U	205	66.66%
115377	Indeno(1,2,3-cd)pyrene	11038	410	ug/kg	U	205	66.66%
115363	Indeno(1,2,3-cd)pyrene	1989	390	ug/kg	U	195	54.16%
115372	Indeno(1,2,3-cd)pyrene	11037	390	ug/kg	U	195	54.16%
115390	Indeno(1,2,3-cd)pyrene	11041	390	ug/kg	U	195	54.16%
067401	Indeno(1,2,3-cd)pyrene	1808	380	ug/kg	UJ	190	45.83%
111448	Indeno(1,2,3-cd)pyrene	1985	380	ug/kg	UJ	190	45.83%
067300	Indeno(1,2,3-cd)pyrene	1719	370	ug/kg	U	185	4.16%
067740	Indeno(1,2,3-cd)pyrene	1889	370	ug/kg	U	185	4.16%
111487	Indeno(1,2,3-cd)pyrene	1982	370	ug/kg	U	185	4.16%
115321	Indeno(1,2,3-cd)pyrene	1991	370	ug/kg	U	185	4.16%
115335	Indeno(1,2,3-cd)pyrene	1990	370	ug/kg	U	185	4.16%
115340	Indeno(1,2,3-cd)pyrene	1993	370	ug/kg	U	185	4.16%
115346	Indeno(1,2,3-cd)pyrene	1992	370	ug/kg	U	185	4.16%
115351	Indeno(1,2,3-cd)pyrene	1988	370	ug/kg	U	185	4.16%
115359	Indeno(1,2,3-cd)pyrene	1987	370	ug/kg	U	185	4.16%
115380	Indeno(1,2,3-cd)pyrene	11036	370	ug/kg	U	185	4.16%
111480	Indeno(1,2,3-cd)pyrene	1983	360	ug/kg	U	180	0.00%

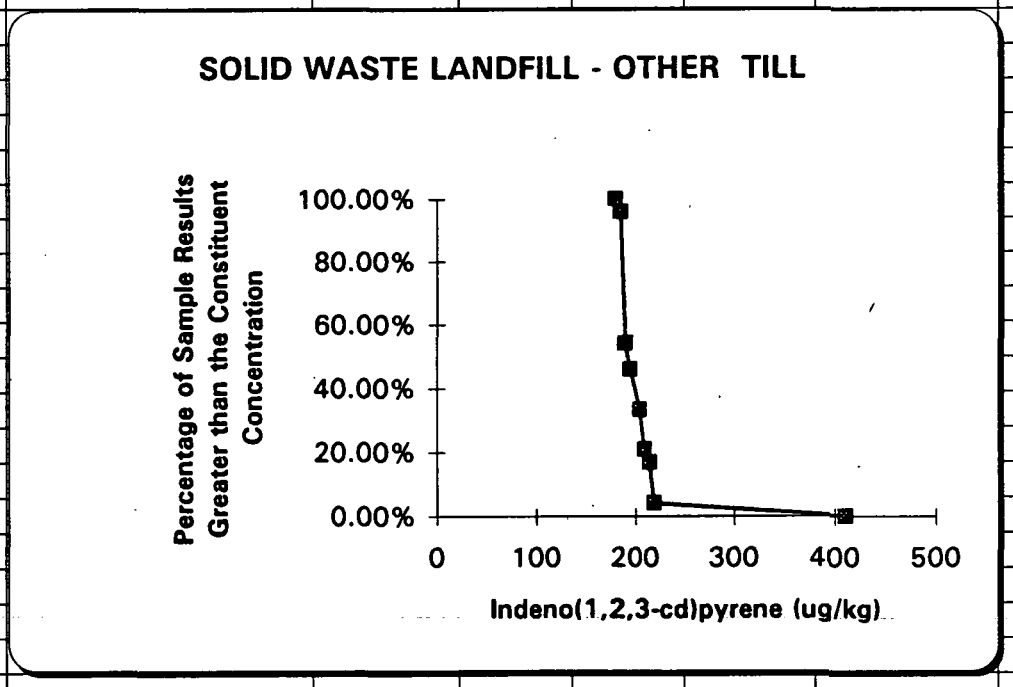

TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
115346	Neptunium-237	1992	0.351	pci/g	N	0.351	100.00%
111487	Neptunium-237	1982	0.31	pci/g	N	0.31	93.75%
115321	Neptunium-237	1991	0.3	pci/g	N	0.3	50.00%
008388	Neptunium-237	1035	0.6	pci/g	U	0.3	50.00%
067296	Neptunium-237	1719	0.6	pci/g	U	0.3	50.00%
007968	Neptunium-237	3037	0.6	pci/g	UJ	0.3	50.00%
067233	Neptunium-237	1721	0.6	pci/g	UJ	0.3	50.00%
067238	Neptunium-237	1721	0.6	pci/g	UJ	0.3	50.00%
067279	Neptunium-237	1718	0.6	pci/g	UJ	0.3	50.00%
111480	Neptunium-237	1983	0.28	pci/g	N	0.28	43.75%
115335	Neptunium-237	1990	0.116	pci/g	N	0.116	37.50%
115390	Neptunium-237	11041	0.11	pci/g	N	0.11	31.25%
111448	Neptunium-237	1985	0.099	pci/g	N	0.099	25.00%
115340	Neptunium-237	1993	0.0871	pci/g	N	0.0871	18.75%
115385	Neptunium-237	11039	0.078	pci/g	N	0.078	12.50%
111458	Neptunium-237	1986	0.05	pci/g	N	0.05	6.25%
111468	Neptunium-237	1984	0.047	pci/g	N	0.047	0.00%

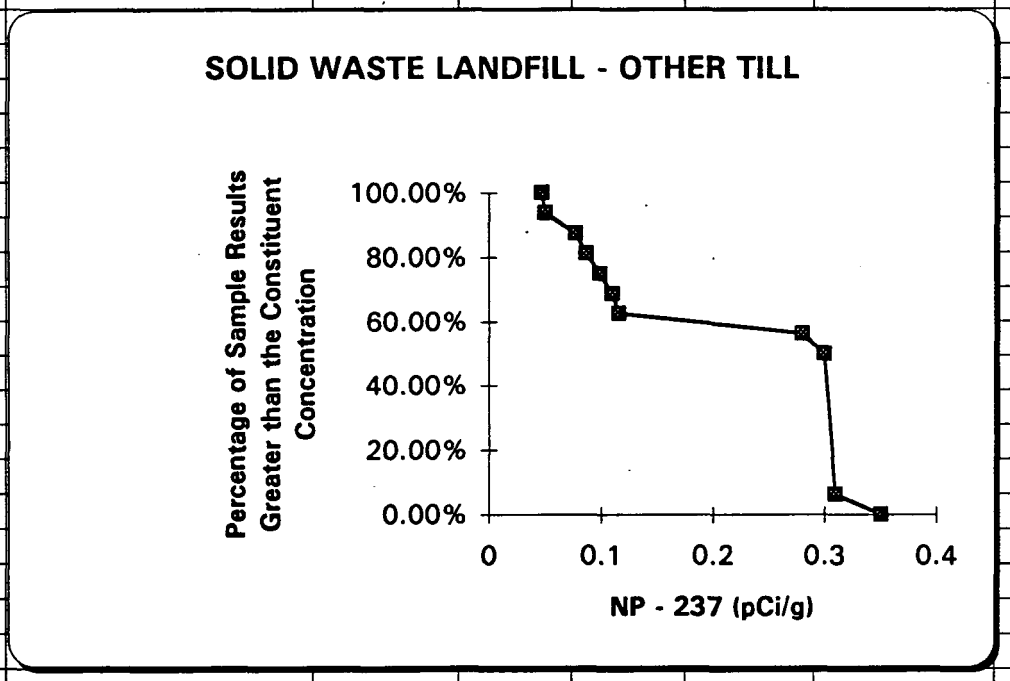

TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
007968	Plutonium-238	3037	0.6	pci/g	U	0.3	78.26%
008388	Plutonium-238	1035	0.6	pci/g	U	0.3	78.26%
067233	Plutonium-238	1721	0.6	pci/g	U	0.3	78.26%
067296	Plutonium-238	1719	0.6	pci/g	U	0.3	78.26%
067238	Plutonium-238	1721	0.6	pci/g	UJ	0.3	78.26%
067279	Plutonium-238	1718	0.6	pci/g	UJ	0.3	78.26%
111487	Plutonium-238	1982	0.09	pci/g	J	0.09	73.91%
115321	Plutonium-238	1991	0.07	pci/g	J	0.07	69.56%
111458	Plutonium-238	1986	0.05	pci/g	J	0.05	65.21%
115385	Plutonium-238	11039	0.045	pci/g	J	0.045	60.86%
115335	Plutonium-238	1990	0.0427	pci/g	J	0.0427	56.52%
111468	Plutonium-238	1984	0.04	pci/g	J	0.04	43.47%
111480	Plutonium-238	1983	0.04	pci/g	J	0.04	43.47%
115390	Plutonium-238	11041	0.04	pci/g	J	0.04	43.47%
115340	Plutonium-238	1993	0.0343	pci/g	J	0.0343	39.13%
111448	Plutonium-238	1985	0.032	pci/g	J	0.032	34.78%
115346	Plutonium-238	1992	0.0529	pci/g	UJ	0.02645	30.43%
115377	Plutonium-238	11038	0.021	pci/g	J	0.021	26.08%
115393	Plutonium-238	11040	0.038	pci/g	UJ	0.019	21.73%
115363	Plutonium-238	1989	0.03	pci/g	UJ	0.015	17.39%
115351	Plutonium-238	1988	0.0148	pci/g	J	0.0148	13.04%
115380	Plutonium-238	11036	0.022	pci/g	UJ	0.011	8.69%
115359	Plutonium-238	1987	0.012	pci/g	UJ	0.006	4.34%
115372	Plutonium-238	11037	0.01	pci/g	UJ	0.005	0.00%

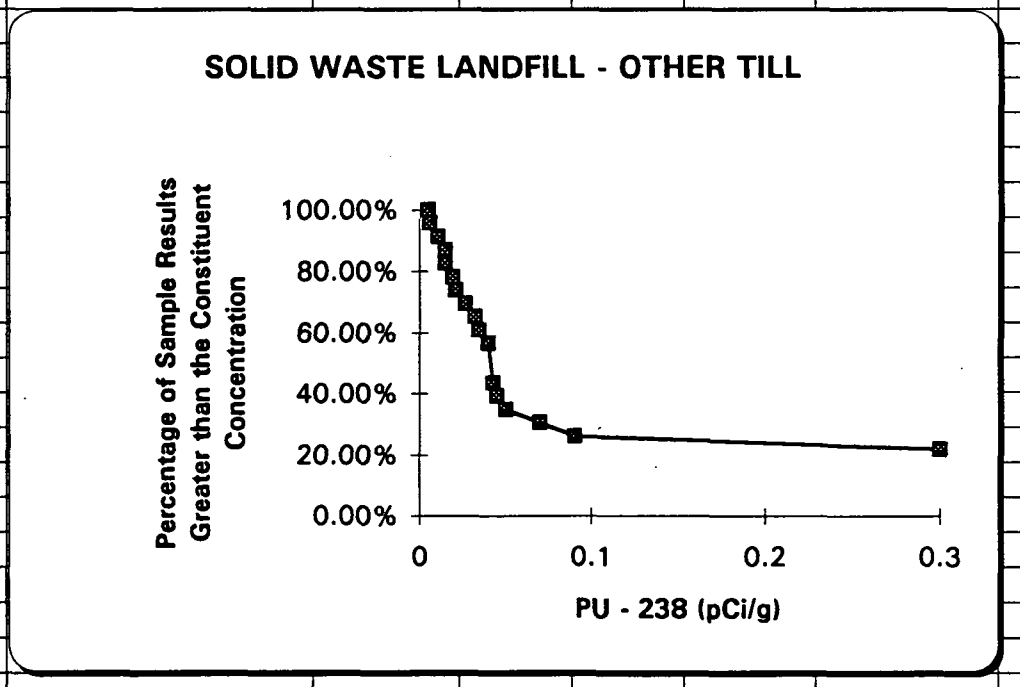

TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
111448	Radium-226	1985	1.23	pci/g	-	1.23	100.00%
115390	Radium-226	11041	1.15	pci/g	-	1.15	95.65%
115380	Radium-226	11036	1.05	pci/g	-	1.05	91.30%
115321	Radium-226	1991	1.04	pci/g	-	1.04	86.95%
115363	Radium-226	1989	1.03	pci/g	-	1.03	78.26%
067279	Radium-226	1718	1.03	pci/g	J	1.03	78.26%
115351	Radium-226	1988	0.98	pci/g	-	0.98	69.56%
067238	Radium-226	1721	0.98	pci/g	J	0.98	69.56%
115340	Radium-226	1993	0.944	pci/g	-	0.944	65.21%
115377	Radium-226	11038	0.94	pci/g	-	0.94	56.52%
111480	Radium-226	1983	0.94	pci/g	J	0.94	56.52%
111487	Radium-226	1982	0.93	pci/g	J	0.93	52.17%
115393	Radium-226	11040	0.92	pci/g	-	0.92	47.82%
115372	Radium-226	11037	0.9	pci/g	-	0.9	43.47%
115346	Radium-226	1992	0.899	pci/g	-	0.899	39.13%
115359	Radium-226	1987	0.885	pci/g	-	0.885	34.78%
115335	Radium-226	1990	0.883	pci/g	-	0.883	30.43%
067233	Radium-226	1721	0.88	pci/g	-	0.88	26.08%
111458	Radium-226	1986	0.84	pci/g	J	0.84	21.73%
115385	Radium-226	11039	0.824	pci/g	-	0.824	17.39%
008388	Radium-226	1035	0.8	pci/g	J	0.8	13.04%
111468	Radium-226	1984	0.79	pci/g	J	0.79	8.69%
007968	Radium-226	3037	0.6	pci/g	J	0.6	4.34%
067296	Radium-226	1719	0.38	pci/g	J	0.38	0.00%

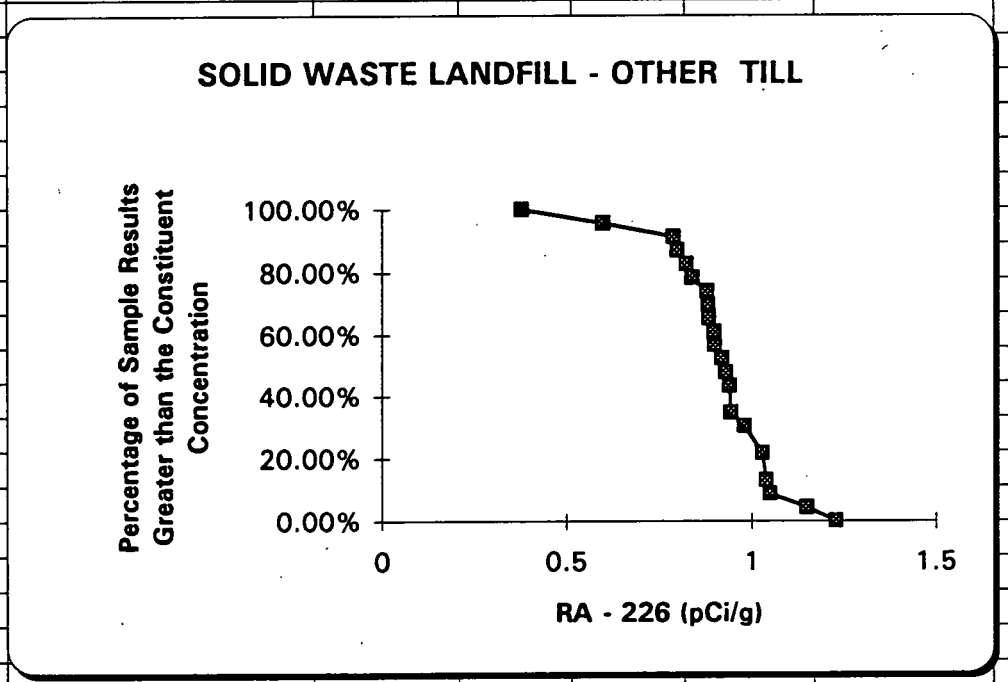

TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
115363	Radium-228	1989	1.07	pci/g	-	1.07	100.00%
067233	Radium-228	1721	1.04	pci/g	-	1.04	95.65%
115346	Radium-228	1992	1.01	pci/g	-	1.01	91.30%
115351	Radium-228	1988	1	pci/g	-	1	86.95%
111468	Radium-228	1984	0.99	pci/g	-	0.99	82.60%
111448	Radium-228	1985	0.98	pci/g	-	0.98	78.26%
111458	Radium-228	1986	0.92	pci/g	-	0.92	73.91%
115393	Radium-228	11040	0.9	pci/g	-	0.9	69.56%
115340	Radium-228	1993	0.884	pci/g	-	0.884	65.21%
115377	Radium-228	11038	0.88	pci/g	-	0.88	60.86%
115321	Radium-228	1991	0.86	pci/g	-	0.86	52.17%
115380	Radium-228	11036	0.86	pci/g	-	0.86	52.17%
111487	Radium-228	1982	0.85	pci/g	-	0.85	47.82%
115372	Radium-228	11037	0.81	pci/g	-	0.81	43.47%
111480	Radium-228	1983	0.78	pci/g	-	0.78	34.78%
067279	Radium-228	1718	0.78	pci/g	J	0.78	34.78%
115390	Radium-228	11041	0.777	pci/g	J	0.777	30.43%
115385	Radium-228	11039	0.759	pci/g	J	0.759	26.08%
067238	Radium-228	1721	0.68	pci/g	J	0.68	21.73%
115335	Radium-228	1990	0.677	pci/g	-	0.677	17.39%
115359	Radium-228	1987	0.618	pci/g	-	0.618	13.04%
007968	Radium-228	3037	0.6	pci/g	J	0.6	4.34%
008388	Radium-228	1035	0.6	pci/g	J	0.6	4.34%
067296	Radium-228	1719	0.5	pci/g	UJ	0.25	0.00%

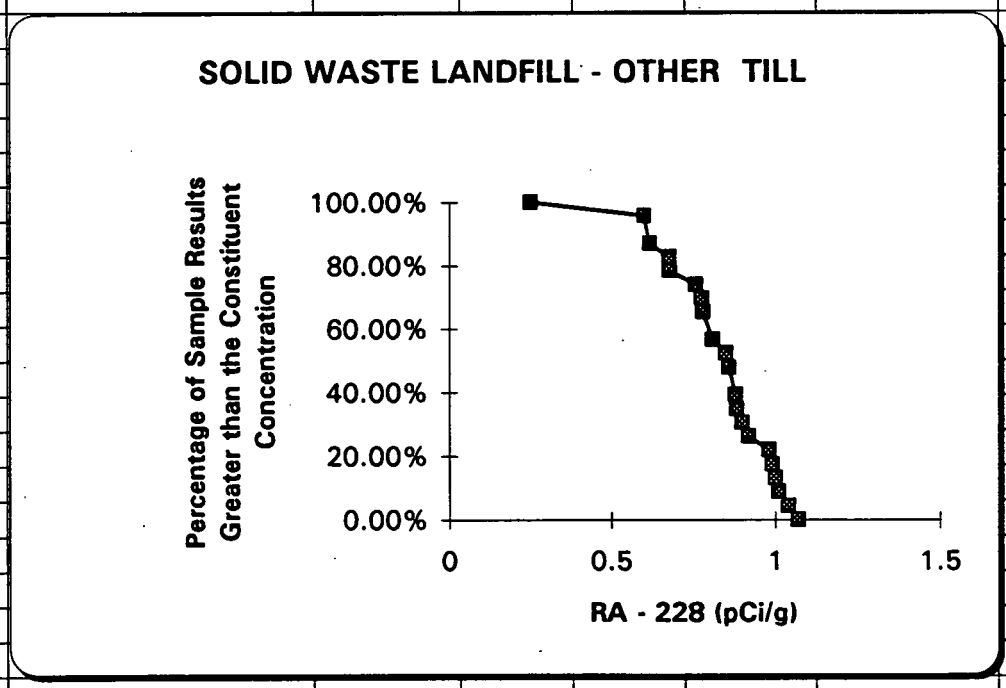

TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
67296	Strontium-90	1719	1.16	pci/g	J	1.16	100.00%
67238	Strontium-90	1721	0.73	pci/g	J	0.73	95.20%
115363	Strontium-90	1989	0.71	pci/g	J	0.71	90.40%
111448	Strontium-90	1985	0.67	pci/g	J	0.67	85.70%
7968	Strontium-90	3037	0.5	pci/g	U	0.5	76.10%
8388	Strontium-90	1035	0.5	pci/g	U	0.5	76.10%
67233	Strontium-90	1721	0.9	pci/g	UJ	0.45	71.40%
111480	Strontium-90	1983	0.54	pci/g	UJ	0.27	66.60%
111458	Strontium-90	1986	0.484	pci/g	UJ	0.242	61.90%
111468	Strontium-90	1984	0.403	pci/g	UJ	0.2015	57.10%
111487	Strontium-90	1982	0.28	pci/g	UJ	0.14	47.60%
115321	Strontium-90	1991	0.28	pci/g	UJ	0.14	47.60%
115380	Strontium-90	11036	0.23	pci/g	UJ	0.115	42.80%
115346	Strontium-90	1992	0.212	pci/g	UJ	0.106	38.00%
115335	Strontium-90	1990	0.21	pci/g	UJ	0.105	33.30%
115340	Strontium-90	1993	0.207	pci/g	UJ	0.1035	28.50%
115385	Strontium-90	11039	0.206	pci/g	UJ	0.103	23.80%
115372	Strontium-90	11037	0.19	pci/g	UJ	0.095	19.00%
115390	Strontium-90	11041	0.185	pci/g	UJ	0.0925	14.20%
115351	Strontium-90	1988	0.178	pci/g	UJ	0.089	9.50%
115377	Strontium-90	11038	0.17	pci/g	UJ	0.085	4.70%
115359	Strontium-90	1987	0.159	pci/g	UJ	0.0795	.00%

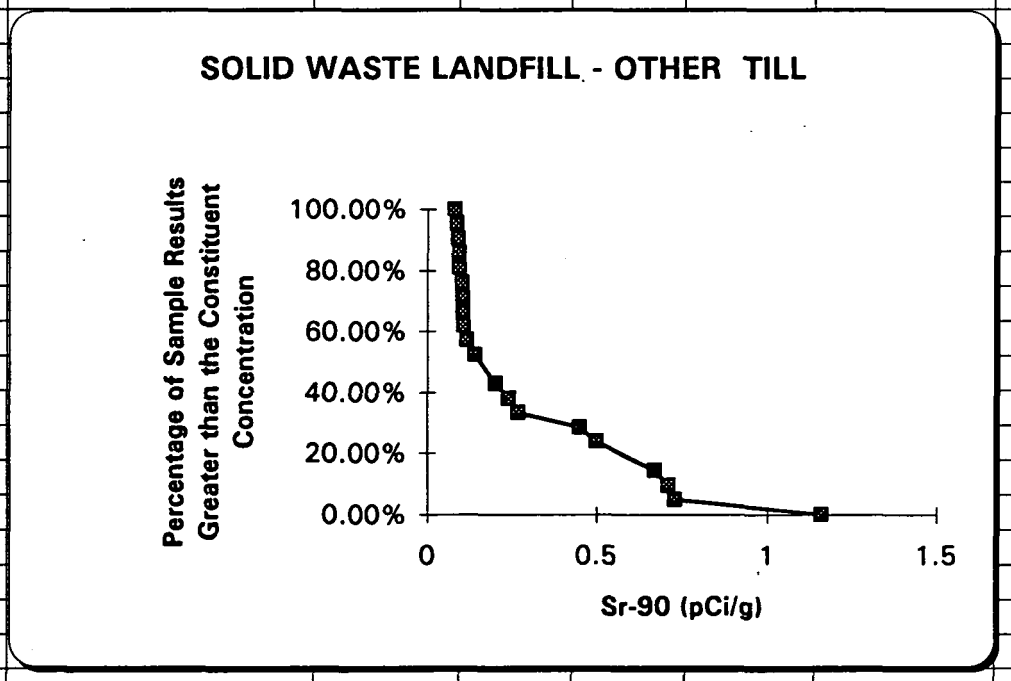

TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
008388	Technetium-99	1035	0.9	pci/g	U	0.45	80.95%
067233	Technetium-99	1721	0.9	pci/g	U	0.45	80.95%
067238	Technetium-99	1721	0.9	pci/g	U	0.45	80.95%
067279	Technetium-99	1718	0.9	pci/g	U	0.45	80.95%
067296	Technetium-99	1719	0.9	pci/g	U	0.45	80.95%
115335	Technetium-99	1990	0.543	pci/g	UJ	0.2715	76.19%
115346	Technetium-99	1992	0.53	pci/g	UJ	0.265	71.42%
115340	Technetium-99	1993	0.5	pci/g	UJ	0.25	66.66%
115372	Technetium-99	11037	0.39	pci/g	UJ	0.195	61.90%
115385	Technetium-99	11039	0.387	pci/g	UJ	0.1935	57.14%
111448	Technetium-99	1985	0.38	pci/g	UJ	0.19	47.61%
115377	Technetium-99	11038	0.38	pci/g	UJ	0.19	47.61%
111480	Technetium-99	1983	0.37	pci/g	UJ	0.185	38.09%
111487	Technetium-99	1982	0.37	pci/g	UJ	0.185	38.09%
111468	Technetium-99	1984	0.368	pci/g	UJ	0.184	33.33%
115363	Technetium-99	1989	0.36	pci/g	UJ	0.18	23.80%
115380	Technetium-99	11036	0.36	pci/g	UJ	0.18	23.80%
111458	Technetium-99	1986	0.347	pci/g	UJ	0.1735	19.04%
115390	Technetium-99	11041	0.342	pci/g	UJ	0.171	14.28%
115321	Technetium-99	1991	0.34	pci/g	UJ	0.17	9.52%
115351	Technetium-99	1988	0.326	pci/g	UJ	0.163	4.76%
115359	Technetium-99	1987	0.284	pci/g	UJ	0.142	0.00%

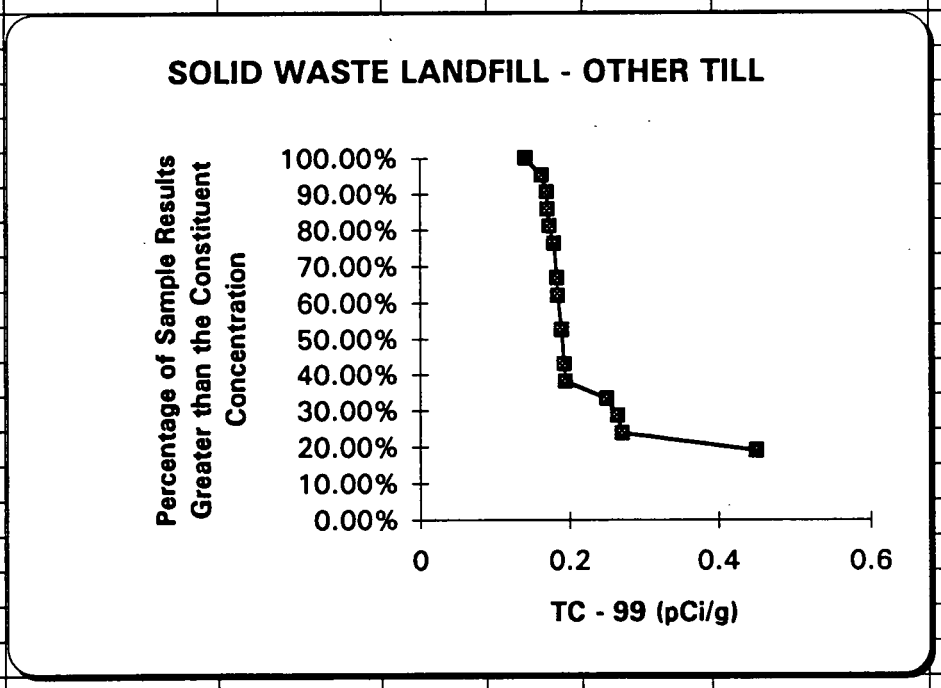

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TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115385	Thorium-228	11039	2.98	pci/g	-	2.98	100.00%
067238	Thorium-228	1721	1.4	pci/g	J	1.4	95.00%
007968	Thorium-228	3037	1.2	pci/g	-	1.2	90.00%
067296	Thorium-228	1719	1.12	pci/g	-	1.12	85.00%
067233	Thorium-228	1721	1.02	pci/g	J	1.02	80.00%
067279	Thorium-228	1718	0.96	pci/g	J	0.96	75.00%
115380	Thorium-228	11036	0.94	pci/g	-	0.94	70.00%
111468	Thorium-228	1984	0.92	pci/g	-	0.92	65.00%
111448	Thorium-228	1985	0.87	pci/g	-	0.87	60.00%
115340	Thorium-228	1993	0.828	pci/g	-	0.828	55.00%
008388	Thorium-228	1035	0.8	pci/g	J	0.8	50.00%
115377	Thorium-228	11038	0.79	pci/g	-	0.79	40.00%
115321	Thorium-228	1991	0.79	pci/g	J	0.79	40.00%
111458	Thorium-228	1986	0.76	pci/g	-	0.76	35.00%
115346	Thorium-228	1992	0.733	pci/g	J	0.733	30.00%
115351	Thorium-228	1988	0.725	pci/g	-	0.725	25.00%
111480	Thorium-228	1983	0.71	pci/g	-	0.71	15.00%
115372	Thorium-228	11037	0.71	pci/g	J	0.71	15.00%
111487	Thorium-228	1982	0.66	pci/g	-	0.66	10.00%
115359	Thorium-228	1987	0.631	pci/g	-	0.631	5.00%
115335	Thorium-228	1990	0.584	pci/g	J	0.584	0.00%

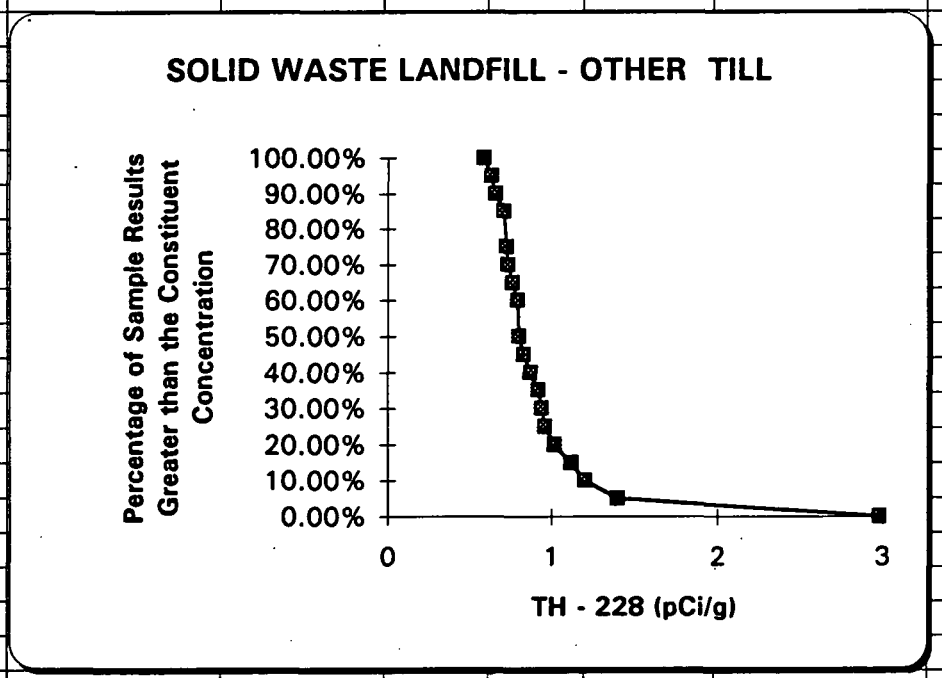


TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115385	Thorium-230	11039	4.7	pci/g	-	4.7	100.00%
111448	Thorium-230	1985	3.06	pci/g	-	3.06	95.00%
067238	Thorium-230	1721	1.74	pci/g	J	1.74	90.00%
115380	Thorium-230	11036	1.44	pci/g	-	1.44	85.00%
007968	Thorium-230	3037	1.3	pci/g	-	1.3	75.00%
111468	Thorium-230	1984	1.3	pci/g	-	1.3	75.00%
115321	Thorium-230	1991	1.17	pci/g	J	1.17	70.00%
067296	Thorium-230	1719	1.15	pci/g	-	1.15	65.00%
115340	Thorium-230	1993	1.11	pci/g	-	1.11	60.00%
008388	Thorium-230	1035	1.1	pci/g	J	1.1	50.00%
115372	Thorium-230	11037	1.1	pci/g	J	1.1	50.00%
111480	Thorium-230	1983	1.04	pci/g	-	1.04	45.00%
115377	Thorium-230	11038	1	pci/g	-	1	35.00%
115346	Thorium-230	1992	1	pci/g	J	1	35.00%
115359	Thorium-230	1987	0.967	pci/g	-	0.967	30.00%
111458	Thorium-230	1986	0.94	pci/g	-	0.94	20.00%
111487	Thorium-230	1982	0.94	pci/g	-	0.94	20.00%
115351	Thorium-230	1988	0.856	pci/g	-	0.856	15.00%
115335	Thorium-230	1990	0.792	pci/g	J	0.792	10.00%
067279	Thorium-230	1718	0.69	pci/g	J	0.69	5.00%
067233	Thorium-230	1721	0.6	pci/g	UJ	0.3	0.00%

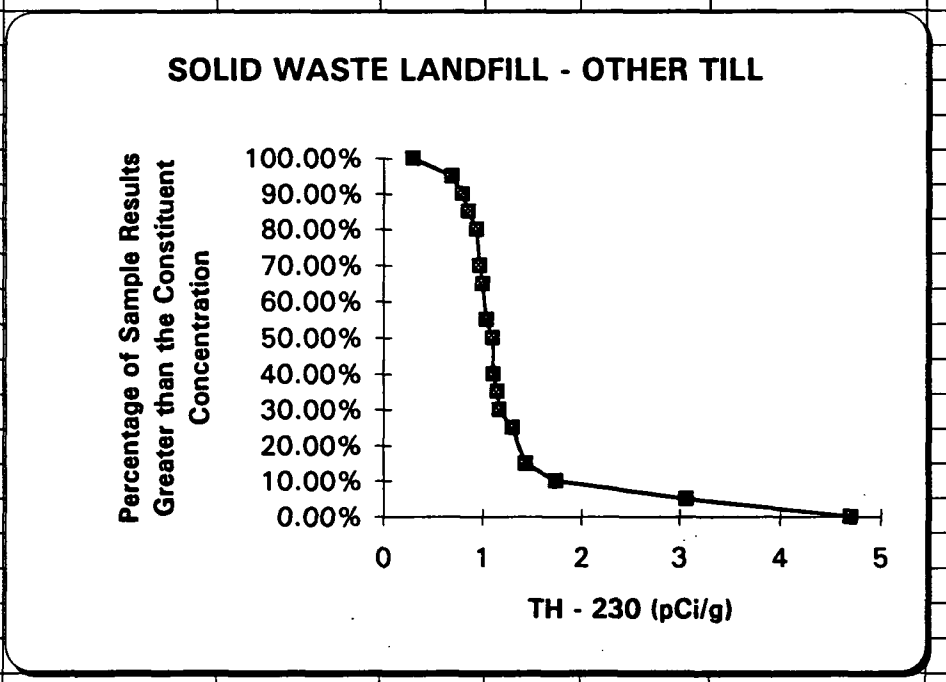


TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115385	Thorium-232	11039	5.16	pci/g	-	5.16	100.00%
067233	Thorium-232	1721	0.94	pci/g	J	0.94	95.00%
067238	Thorium-232	1721	0.931	pci/g	-	0.931	90.00%
111448	Thorium-232	1985	0.93	pci/g	-	0.93	85.00%
115346	Thorium-232	1992	0.877	pci/g	J	0.877	80.00%
115351	Thorium-232	1988	0.832	pci/g	-	0.832	75.00%
111458	Thorium-232	1986	0.81	pci/g	-	0.81	70.00%
115372	Thorium-232	11037	0.79	pci/g	J	0.79	65.00%
115340	Thorium-232	1993	0.789	pci/g	-	0.789	60.00%
111468	Thorium-232	1984	0.78	pci/g	-	0.78	55.00%
115377	Thorium-232	11038	0.75	pci/g	-	0.75	50.00%
067296	Thorium-232	1719	0.74	pci/g	-	0.74	45.00%
115380	Thorium-232	11036	0.71	pci/g	-	0.71	40.00%
008388	Thorium-232	1035	0.7	pci/g	J	0.7	35.00%
115321	Thorium-232	1991	0.66	pci/g	J	0.66	30.00%
115359	Thorium-232	1987	0.607	pci/g	-	0.607	25.00%
111480	Thorium-232	1983	0.6	pci/g	-	0.6	15.00%
111487	Thorium-232	1982	0.6	pci/g	-	0.6	15.00%
115335	Thorium-232	1990	0.489	pci/g	J	0.489	10.00%
007968	Thorium-232	3037	0.6	pci/g	U	0.3	0.00%
067279	Thorium-232	1718	0.6	pci/g	U	0.3	0.00%

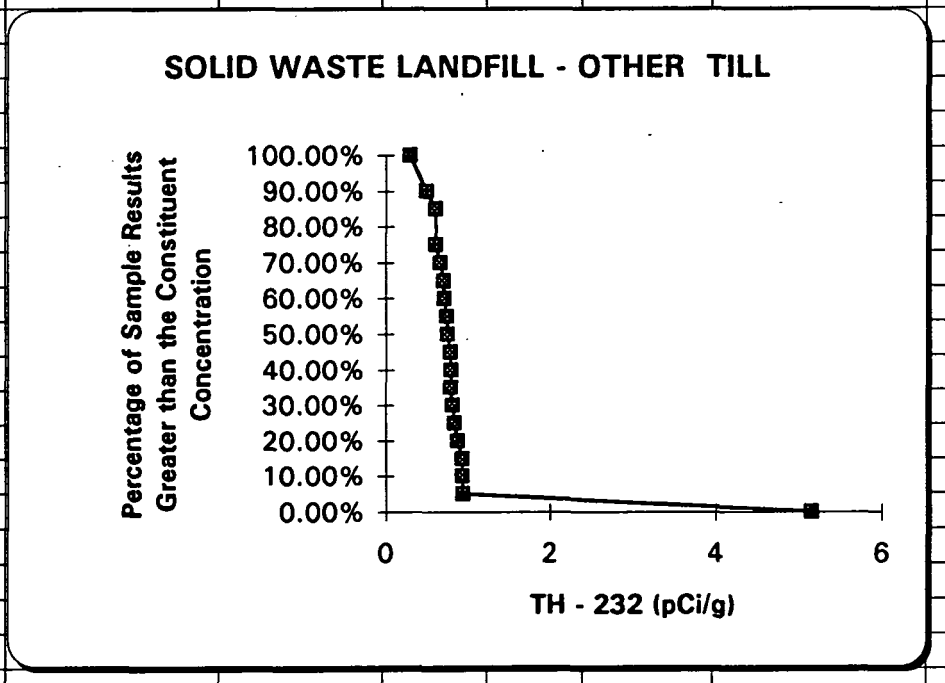


TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067296	Uranium, Total	1719	19.7	mg/kg	J	19.7	100.00%
111468	Uranium, Total	1984	12.7	mg/kg	J	12.7	95.23%
111458	Uranium, Total	1986	11.4	mg/kg	J	11.4	90.47%
067238	Uranium, Total	1721	11.2	mg/kg	-	11.2	85.71%
067233	Uranium, Total	1721	8.9	mg/kg	J	8.9	80.95%
115385	Uranium, Total	11039	6.08	mg/kg	J	6.08	76.19%
111448	Uranium, Total	1985	5.91	mg/kg	-	5.91	71.42%
115372	Uranium, Total	11037	5.5	mg/kg	J	5.5	66.66%
115377	Uranium, Total	11038	5.32	mg/kg	J	5.32	61.90%
115363	Uranium, Total	1989	5.15	mg/kg	J	5.15	57.14%
111487	Uranium, Total	1982	4.83	mg/kg	J	4.83	52.38%
115390	Uranium, Total	11041	4.71	mg/kg	J	4.71	47.61%
115359	Uranium, Total	1987	3.94	mg/kg	J	3.94	42.85%
115351	Uranium, Total	1988	3.62	mg/kg	J	3.62	38.09%
115346	Uranium, Total	1992	3.5	mg/kg	-	3.5	33.33%
115321	Uranium, Total	1991	3.24	mg/kg	J	3.24	28.57%
111480	Uranium, Total	1983	3.18	mg/kg	J	3.18	23.80%
115380	Uranium, Total	11036	3.1	mg/kg	J	3.1	19.04%
115335	Uranium, Total	1990	3.06	mg/kg	J	3.06	14.28%
067279	Uranium, Total	1718	3.05	mg/kg	J	3.05	9.52%
115340	Uranium, Total	1993	3.02	mg/kg	-	3.02	4.76%
115393	Uranium, Total	11040	2.49	mg/kg	J	2.49	0.00%

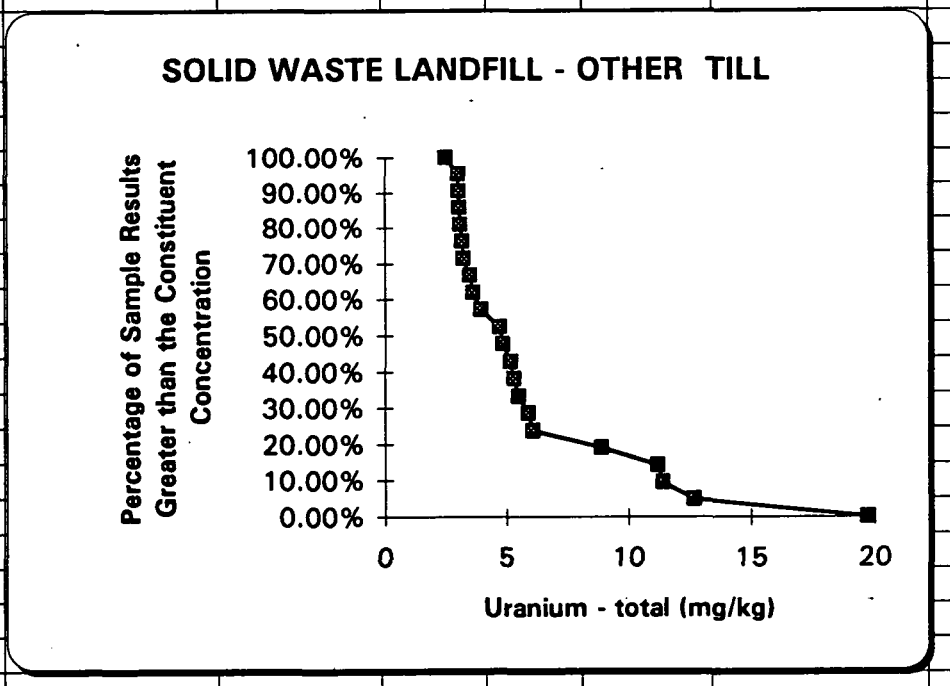


TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
008388	Uranium-234	1035	5.2	pci/g	-	5.2	100.00%
067238	Uranium-234	1721	1.76	pci/g	J	1.76	95.65%
067233	Uranium-234	1721	1.64	pci/g	-	1.64	91.30%
115372	Uranium-234	11037	1.47	pci/g	-	1.47	86.95%
111448	Uranium-234	1985	1.21	pci/g	-	1.21	82.60%
111468	Uranium-234	1984	1.11	pci/g	J	1.11	78.26%
115385	Uranium-234	11039	1.1	pci/g	J	1.1	73.91%
115380	Uranium-234	11036	1	pci/g	-	1	69.56%
115351	Uranium-234	1988	0.991	pci/g	-	0.991	65.21%
067296	Uranium-234	1719	0.91	pci/g	-	0.91	56.52%
115363	Uranium-234	1989	0.91	pci/g	-	0.91	56.52%
115340	Uranium-234	1993	0.906	pci/g	-	0.906	52.17%
115346	Uranium-234	1992	0.901	pci/g	-	0.901	47.82%
067279	Uranium-234	1718	0.89	pci/g	J	0.89	43.47%
115321	Uranium-234	1991	0.83	pci/g	J	0.83	39.13%
115377	Uranium-234	11038	0.82	pci/g	-	0.82	30.43%
111458	Uranium-234	1986	0.82	pci/g	J	0.82	30.43%
115335	Uranium-234	1990	0.785	pci/g	-	0.785	26.08%
115393	Uranium-234	11040	0.77	pci/g	J	0.77	21.73%
111487	Uranium-234	1982	0.75	pci/g	-	0.75	17.39%
115390	Uranium-234	11041	0.671	pci/g	J	0.671	13.04%
111480	Uranium-234	1983	0.66	pci/g	-	0.66	8.69%
115359	Uranium-234	1987	0.651	pci/g	-	0.651	4.34%
007968	Uranium-234	3037	0.6	pci/g	UJ	0.3	0.00%

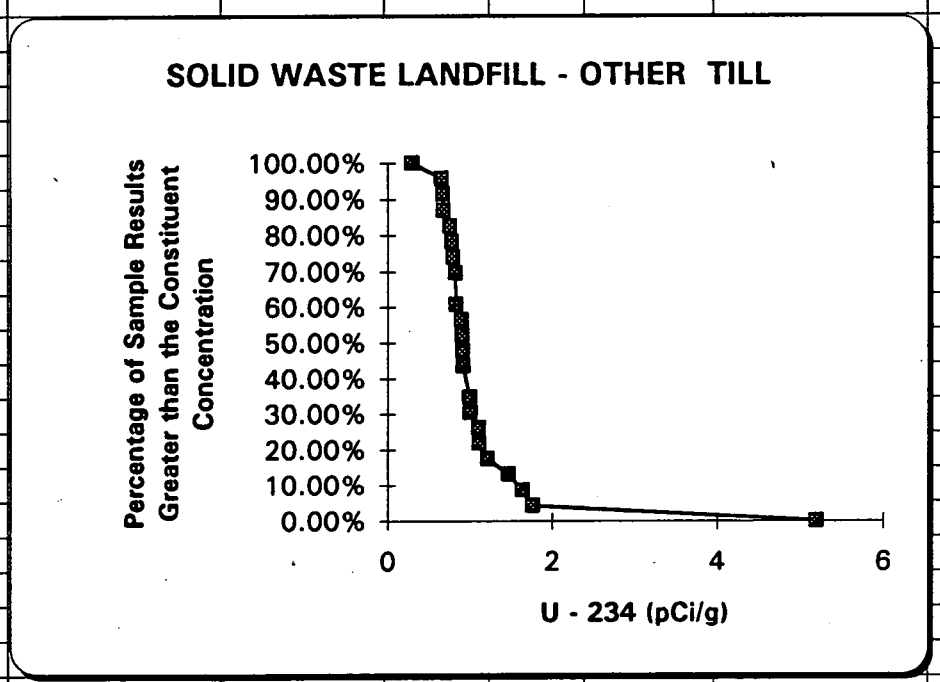


TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
115380	Uranium-235/236	11036	0.75	pci/g	J	0.75	100.00%
008388	Uranium-235/236	1035	0.6	pci/g	U	0.3	78.26%
067233	Uranium-235/236	1721	0.6	pci/g	U	0.3	78.26%
067296	Uranium-235/236	1719	0.6	pci/g	U	0.3	78.26%
007968	Uranium-235/236	3037	0.6	pci/g	UJ	0.3	78.26%
067279	Uranium-235/236	1718	0.6	pci/g	UJ	0.3	78.26%
067238	Uranium-235/236	1721	0.126	pci/g	J	0.126	73.91%
115372	Uranium-235/236	11037	0.09	pci/g	J	0.09	69.56%
115351	Uranium-235/236	1988	0.077	pci/g	-	0.077	65.21%
115385	Uranium-235/236	11039	0.063	pci/g	J	0.063	60.86%
115346	Uranium-235/236	1992	0.0575	pci/g	J	0.0575	56.52%
115393	Uranium-235/236	11040	0.055	pci/g	J	0.055	52.17%
111448	Uranium-235/236	1985	0.054	pci/g	J	0.054	47.82%
115363	Uranium-235/236	1989	0.05	pci/g	J	0.05	43.47%
111468	Uranium-235/236	1984	0.046	pci/g	J	0.046	39.13%
111487	Uranium-235/236	1982	0.04	pci/g	J	0.04	26.08%
115321	Uranium-235/236	1991	0.04	pci/g	J	0.04	26.08%
115359	Uranium-235/236	1987	0.04	pci/g	J	0.04	26.08%
115340	Uranium-235/236	1993	0.0385	pci/g	J	0.0385	21.73%
115335	Uranium-235/236	1990	0.0378	pci/g	J	0.0378	17.39%
111458	Uranium-235/236	1986	0.035	pci/g	J	0.035	13.04%
115377	Uranium-235/236	11038	0.025	pci/g	J	0.025	8.69%
115390	Uranium-235/236	11041	0.015	pci/g	J	0.015	0.00%
111480	Uranium-235/236	1983	0.03	pci/g	UJ	0.015	0.00%

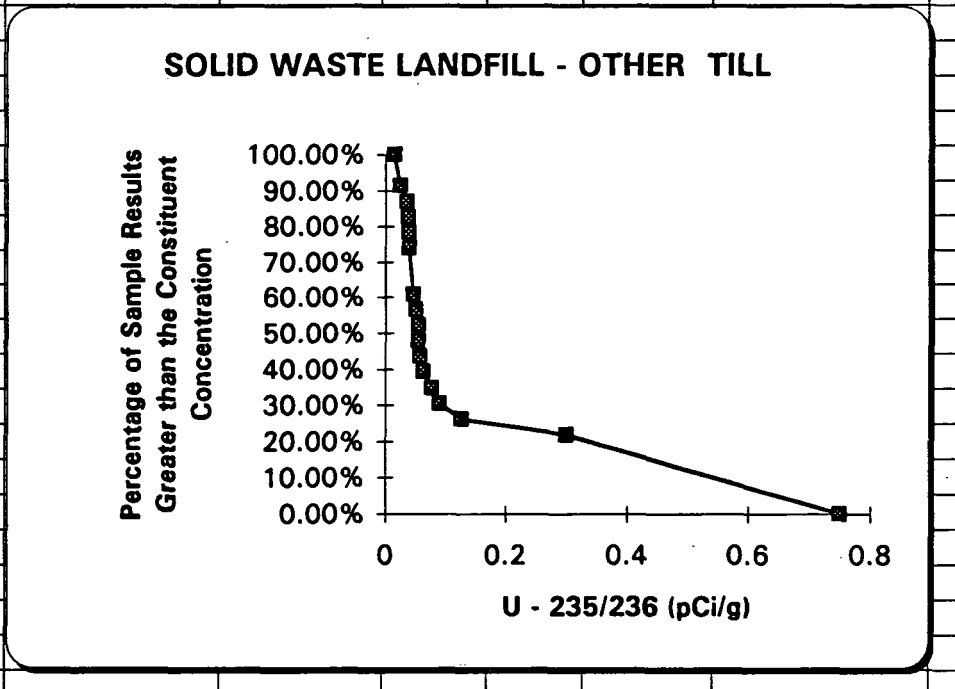


TABLE A.2-16
SOLID WASTE LANDFILL - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
008388	Uranium-238	1035	18.1	pci/g	-	18.1	100.00%
067238	Uranium-238	1721	3.61	pci/g	-	3.61	95.65%
067233	Uranium-238	1721	3	pci/g	-	3	91.30%
067296	Uranium-238	1719	1.59	pci/g	-	1.59	86.95%
115372	Uranium-238	11037	1.56	pci/g	-	1.56	82.60%
111448	Uranium-238	1985	1.52	pci/g	-	1.52	78.26%
111468	Uranium-238	1984	1.24	pci/g	J	1.24	73.91%
115385	Uranium-238	11039	1.18	pci/g	J	1.18	69.56%
115346	Uranium-238	1992	1.17	pci/g	-	1.17	65.21%
067279	Uranium-238	1718	1.11	pci/g	-	1.11	60.86%
115380	Uranium-238	11036	1.08	pci/g	-	1.08	56.52%
115340	Uranium-238	1993	0.973	pci/g	-	0.973	52.17%
115351	Uranium-238	1988	0.961	pci/g	-	0.961	47.82%
115321	Uranium-238	1991	0.95	pci/g	J	0.95	43.47%
007968	Uranium-238	3037	0.9	pci/g	J	0.9	34.78%
115393	Uranium-238	11040	0.9	pci/g	J	0.9	34.78%
111458	Uranium-238	1986	0.83	pci/g	J	0.83	30.43%
115377	Uranium-238	11038	0.82	pci/g	-	0.82	26.08%
115363	Uranium-238	1989	0.8	pci/g	-	0.8	21.73%
111487	Uranium-238	1982	0.79	pci/g	-	0.79	17.39%
115390	Uranium-238	11041	0.783	pci/g	J	0.783	13.04%
115335	Uranium-238	1990	0.745	pci/g	-	0.745	8.69%
111480	Uranium-238	1983	0.74	pci/g	-	0.74	4.34%
115359	Uranium-238	1987	0.731	pci/g	-	0.731	0.00%

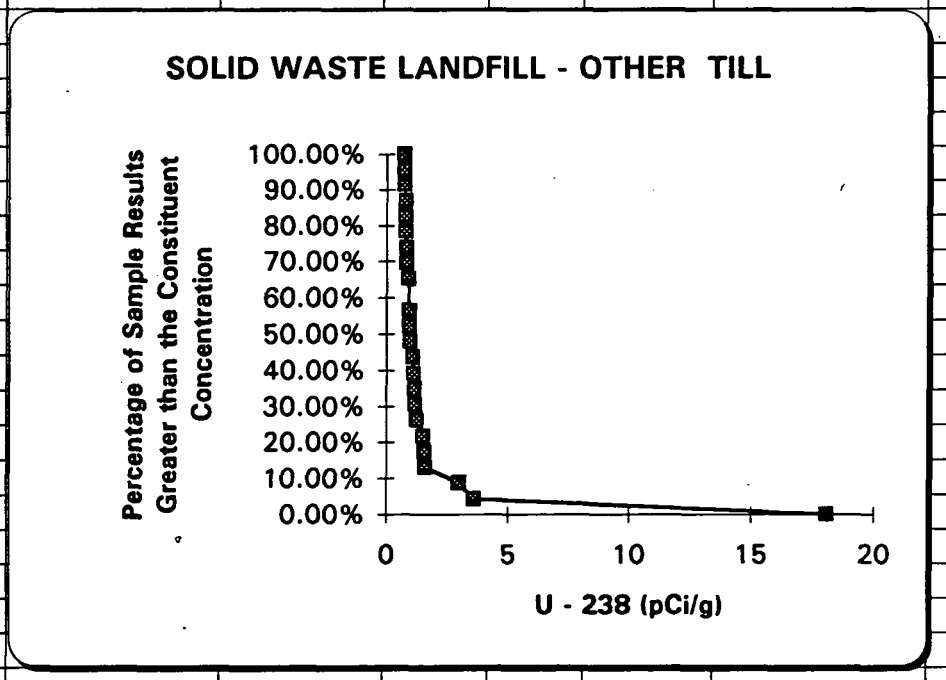


TABLE A.2-17
SOLID WASTE LANDFILL - TILL (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
007901	Neptunium-237	1038	0.6	pci/g	UJ	0.3
007901	Plutonium-238	1038	0.6	pci/g	UJ	0.3
007901	Radium-226	1038	0.8	pci/g	J	0.8
007901	Radium-228	1038	1	pci/g	J	1
007901	Strontium-90	1038	0.5	pci/g	UJ	0.25
007901	Thorium-228	1038	2.3	pci/g	J	2.3
007901	Thorium-230	1038	1.2	pci/g	J	1.2
007901	Thorium-232	1038	1.2	pci/g	J	1.2
007901	Uranium-234	1038	0.8	pci/g	J	0.8
007901	Uranium-235/236	1038	0.6	pci/g	UJ	0.3
007901	Uranium-238	1038	0.9	pci/g	J	0.9

TABLE A.2-18
SOLID WASTE LANDFILL - GMA SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results
008107	Neptunium-237	3037	0.6	pci/g	UJ	0.3
008117	Neptunium-237	3037	0.6	pci/g	UJ	0.3
008107	Plutonium-238	3037	0.6	pci/g	U	0.3
008117	Plutonium-238	3037	0.6	pci/g	U	0.3
008107	Radium-226	3037	0.3	pci/g	U	0.15
008117	Radium-226	3037	0.3	pci/g	UJ	0.15
008107	Radium-228	3037	0.6	pci/g	UJ	0.3
008117	Radium-228	3037	0.6	pci/g	UJ	0.3
008117	Strontium-90	3037	0.5	pci/g	U	0.5
008117	Strontium-90	3037	0.5	pci/g	U	0.5
008107	Thorium-228	3037	0.7	pci/g	-	0.7
008117	Thorium-228	3037	0.6	pci/g	UJ	0.3
008117	Thorium-230	3037	0.7	pci/g	J	0.7
008107	Thorium-230	3037	0.6	pci/g	U	0.3
008107	Thorium-232	3037	0.6	pci/g	U	0.3
008117	Thorium-232	3037	0.6	pci/g	UJ	0.3
008107	Uranium-234	3037	0.6	pci/g	UJ	0.3
008117	Uranium-234	3037	0.6	pci/g	UJ	0.3
008107	Uranium-235/236	3037	0.6	pci/g	UJ	0.3
008117	Uranium-235/236	3037	0.6	pci/g	UJ	0.3
008107	Uranium-238	3037	0.6	pci/g	UJ	0.3
008117	Uranium-238	3037	0.6	pci/g	UJ	0.3

TABLE A.2-19
SOLID WASTE LANDFILL-SEDIMENT

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
111328	Antimony	SWL-SD-01	1.1	mg/kg	UJ	0.55
111325	Antimony	SWL-SD-02	1.5	mg/kg	UJ	0.75
111325	Arsenic	SWL-SD-02	5.3	mg/kg	J	5.3
111328	Arsenic	SWL-SD-01	4.5	mg/kg	J	4.5
111328	Benzo(a)anthracene	SWL-SD-01	450	ug/kg	U	225
111325	Benzo(a)anthracene	SWL-SD-02	500	ug/kg	-	500
111325	Benzo(a)pyrene	SWL-SD-02	550	ug/kg	-	550
111328	Benzo(a)pyrene	SWL-SD-01	450	ug/kg	U	225
111325	Benzo(b)fluoranthene	SWL-SD-02	730	ug/kg	-	730
111328	Benzo(b)fluoranthene	SWL-SD-01	450	ug/kg	U	225
111328	Beryllium	SWL-SD-01	2.3	mg/kg	U	1.15
111325	Beryllium	SWL-SD-02	0.59	mg/kg	U	0.295
111325	Carbazole	SWL-SD-02	120	ug/kg	J	120
111328	Carbazole	SWL-SD-01	450	ug/kg	U	225
111325	Dibenzo(a,h)anthracene	SWL-SD-02	500	ug/kg	U	250
111328	Dibenzo(a,h)anthracene	SWL-SD-01	450	ug/kg	U	225
111325	Indeno(1,2,3-cd)pyrene	SWL-SD-02	310	ug/kg	J	310
111328	Indeno(1,2,3-cd)pyrene	SWL-SD-01	450	ug/kg	U	225
111328	NP-237	SWL-SD-01	0.62	pci/g	N	0.62
111325	NP-237	SWL-SD-02	0.04	pci/g	UJ	0.02
111328	RA-226	SWL-SD-01	0.97	pci/g	-	0.97
111325	RA-226	SWL-SD-02	0.9	pci/g	-	0.9
009100	RA-226	ASIT-021	0.8	pci/g	J	0.8
111325	RA-228	SWL-SD-02	1.07	pci/g	-	1.07
009100	RA-228	ASIT-021	1	pci/g	J	1
111328	RA-228	SWL-SD-01	0.75	pci/g	J	0.75
111325	SR-90	SWL-SD-02	0.59	pci/g	-	0.59
111328	SR-90	SWL-SD-01	0.99	pci/g	J	0.99
111328	TC-99	SWL-SD-01	0.41	pci/g	UJ	0.205
111325	TC-99	SWL-SD-02	0.37	pci/g	UJ	0.185
111328	TH-228	SWL-SD-01	0.73	pci/g	-	0.73
111328	TH-230	SWL-SD-01	1.05	pci/g	-	1.05
111328	TH-232	SWL-SD-01	0.57	pci/g	J	0.57
111325	U-234	SWL-SD-02	4.18	pci/g	J	4.18
111328	U-234	SWL-SD-01	3.66	pci/g	-	3.66
111328	U-235/236	SWL-SD-01	0.25	pci/g	J	0.25
111325	U-235/236	SWL-SD-02	0.03	pci/g	UJ	0.015
111325	U-238	SWL-SD-02	6.8	pci/g	-	6.8
111328	U-238	SWL-SD-01	4.56	pci/g	-	4.56
009100	U-TOTAL	ASIT-021	24	mg/kg	J	24
111325	U-TOTAL	SWL-SD-02	22.6	mg/kg	-	22.6
111328	U-TOTAL	SWL-SD-01	14.7	mg/kg	-	14.7

TABLE A.2-20
SOLID WASTE LANDFILL - PERCHED GROUNDWATER (Inside Battery Limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
111553	Antimony	Filtered	05/05/93	1035	0.0026	mg/l	UJ
111552	Antimony	Unfiltered	05/05/93	1035	0.0028	mg/l	UJ
047006	Antimony	Unfiltered	06/09/93	1719	0.03	mg/l	UJ
003736	Arsenic	FILTERED	11/15/88	1035	0.002	mg/l	U
003560	Arsenic	FILTERED	08/11/88	1035	0.35	mg/l	-
003245	Arsenic	FILTERED	05/25/88	1035	0.2	mg/l	U
111553	Arsenic	FILTERED	05/05/93	1035	0.001	mg/l	U
111552	Arsenic	UNFILTERED	05/05/93	1035	0.001	mg/l	U
003931	Arsenic	FILTERED	02/05/89	1035	0.002	mg/l	U
111552	Benzo(a)anthracene	UNFILTERED	05/05/93	1035	10	ug/l	U
111552	Benzo(a)pyrene	UNFILTERED	05/05/93	1035	10	ug/l	U
111552	Benzo(b)fluoranthene	UNFILTERED	05/05/93	1035	10	ug/l	U
111553	Beryllium	FILTERED	05/05/93	1035	0.001	mg/l	U
111552	Beryllium	UNFILTERED	05/05/93	1035	0.001	mg/l	U
111552	Carbazole	UNFILTERED	05/05/93	1035	10	ug/l	U
111552	Dibenzo(a,h)anthracene	UNFILTERED	05/05/93	1035	10	ug/l	UJ
111552	Indeno(1,2,3-cd)pyrene	UNFILTERED	05/05/93	1035	10	ug/l	U
003736	Neptunium-237	UNFILTERED	11/15/88	1035	1	pci/l	UJ
003560	Neptunium-237	UNFILTERED	08/11/88	1035	1	pci/l	UJ
003245	Neptunium-237	UNFILTERED	05/25/88	1035	1	pci/l	-
111552	Neptunium-237	UNFILTERED	05/05/93	1035	0.3	pci/l	N
003931	Neptunium-237	UNFILTERED	02/05/89	1035	1	pci/l	U
003736	Plutonium-238	UNFILTERED	11/15/88	1035	1	pci/l	UJ
003560	Plutonium-238	UNFILTERED	08/11/88	1035	1	pci/l	U
003245	Plutonium-238	UNFILTERED	05/25/88	1035	1	pci/l	U
111553	Plutonium-238	FILTERED	05/05/93	1035	0.16	pci/l	UJ
111552	Plutonium-238	UNFILTERED	05/05/93	1035	0.67	pci/l	J
003931	Plutonium-238	UNFILTERED	02/05/89	1035	1	pci/l	UJ
003736	Radium-226	UNFILTERED	11/15/88	1035	1	pci/l	U
003560	Radium-226	UNFILTERED	08/11/88	1035	1	pci/l	U
003245	Radium-226	UNFILTERED	05/25/88	1035	2	pci/l	-
111553	Radium-226	FILTERED	05/05/93	1035	0.13	pci/l	UJ
111552	Radium-226	UNFILTERED	05/05/93	1035	0.16	pci/l	UJ
003931	Radium-226	UNFILTERED	02/05/89	1035	1	pci/l	U
003736	Radium-228	UNFILTERED	11/15/88	1035	3	pci/l	U
003560	Radium-228	UNFILTERED	08/11/88	1035	3	pci/l	U
003245	Radium-228	UNFILTERED	05/25/88	1035	5	pci/l	-
111552	Radium-228	UNFILTERED	05/05/93	1035	1.39	pci/l	UJ
111553	Radium-228	FILTERED	05/05/93	1035	2.07	pci/l	U
003931	Radium-228	UNFILTERED	02/05/89	1035	3	pci/l	UJ
111552	Strontium-90	UNFILTERED	05/05/93	1035	0.84	pc/l	UJ
111553	Strontium-90	FILTERED	05/05/93	1035	1.1	pc/l	U
003931	Strontium-90	*U	02/05/93	1035	5	pc/l	U
003245	Strontium-90	*U	05/25/93	1035	5	pc/l	U
003736	Strontium-90	*U	11/15/88	1035	5	pc/l	U
003736	Technetium-99	UNFILTERED	11/15/88	1035	30.3	pci/l	UJ
003560	Technetium-99	UNFILTERED	08/11/88	1035	30	pci/l	U
003245	Technetium-99	UNFILTERED	05/25/88	1035	30	pci/l	U
111553	Technetium-99	FILTERED	05/05/93	1035	9.6	pci/l	UJ
111552	Technetium-99	UNFILTERED	05/05/93	1035	11.1	pci/l	UJ
003931	Technetium-99	UNFILTERED	02/05/89	1035	30	pci/l	UJ

TABLE A.2-20
SOLID WASTE LANDFILL - PERCHED GROUNDWATER (Inside Battery Limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
066826	Technetium-99	*U	1/06/90	1035	30	pci/l	U
003736	Thorium-228	UNFILTERED	11/15/88	1035	1	pci/l	UJ
003560	Thorium-228	UNFILTERED	08/11/88	1035	1	pci/l	UJ
003245	Thorium-228	UNFILTERED	05/25/88	1035	4	pci/l	-
111552	Thorium-228	UNFILTERED	05/05/93	1035	0.2	pci/l	UJ
111553	Thorium-228	FILTERED	05/05/93	1035	0.54	pci/l	UJ
003931	Thorium-228	UNFILTERED	02/05/89	1035	1	pci/l	U
066826	Thorium-228	*U	1/06/90	1035	1.94	pci/l	-
003736	Thorium-230	UNFILTERED	11/15/88	1035	1	pci/l	UJ
003560	Thorium-230	UNFILTERED	08/11/88	1035	1	pci/l	UJ
003245	Thorium-230	UNFILTERED	05/25/88	1035	4.6	pci/l	-
111552	Thorium-230	UNFILTERED	05/05/93	1035	0.2	pci/l	UJ
111553	Thorium-230	FILTERED	05/05/93	1035	0.71	pci/l	-
003931	Thorium-230	UNFILTERED	02/05/89	1035	1	pci/l	U
066826	Thorium-230	*U	1/06/90	1035	20.3	pci/l	J
003736	Thorium-232	UNFILTERED	11/15/88	1035	1	pci/l	UJ
003560	Thorium-232	UNFILTERED	08/11/88	1035	1	pci/l	UJ
003245	Thorium-232	UNFILTERED	05/25/88	1035	2.6	pci/l	-
111552	Thorium-232	UNFILTERED	05/05/93	1035	0.19	pci/l	UJ
111553	Thorium-232	FILTERED	05/05/93	1035	0.28	pci/l	UJ
003931	Thorium-232	UNFILTERED	02/05/89	1035	1	pci/l	U
003736	Uranium, Total	UNFILTERED	11/15/88	1035	3	ug/l	-
003560	Uranium, Total	UNFILTERED	08/11/88	1035	2	ug/l	-
003245	Uranium, Total	UNFILTERED	05/25/88	1035	17	ug/l	-
111552	Uranium, Total	UNFILTERED	05/05/93	1035	2.05	ug/l	-
111553	Uranium, Total	FILTERED	05/05/93	1035	2.55	ug/l	-
003931	Uranium, Total	UNFILTERED	02/05/89	1035	3	ug/l	-
066826	Uranium, Total	*U	1/06/90	1035	8.19	ug/l	J
003736	Uranium-234	UNFILTERED	11/15/88	1035	1.2	pci/l	J
003560	Uranium-234	UNFILTERED	08/11/88	1035	1	pci/l	U
003245	Uranium-234	UNFILTERED	05/25/88	1035	4.6	pci/l	-
111552	Uranium-234	UNFILTERED	05/05/93	1035	1.1	pci/l	-
111553	Uranium-234	FILTERED	05/05/93	1035	1.11	pci/l	-
003931	Uranium-234	UNFILTERED	02/05/89	1035	1	pci/l	U
003736	Uranium-235/236	UNFILTERED	11/15/88	1035	1	pci/l	UJ
003560	Uranium-235/236	UNFILTERED	08/11/88	1035	1	pci/l	U
003245	Uranium-235/236	UNFILTERED	05/25/88	1035	1	pci/l	U
111552	Uranium-235/236	UNFILTERED	05/05/93	1035	0.06	pci/l	UJ
111553	Uranium-235/236	FILTERED	05/05/93	1035	0.16	pci/l	UJ
003931	Uranium-235/236	UNFILTERED	02/05/89	1035	1	pci/l	U
066826	Uranium-235/236	*U	1/06/90	1035	1	pci/l	U
003736	Uranium-238	UNFILTERED	11/15/88	1035	1.2	pci/l	J
003560	Uranium-238	UNFILTERED	08/11/88	1035	1	pci/l	-
003245	Uranium-238	UNFILTERED	05/25/88	1035	3.9	pci/l	-
111552	Uranium-238	UNFILTERED	05/05/93	1035	0.67	pci/l	J
111553	Uranium-238	FILTERED	05/05/93	1035	0.84	pci/l	-
003931	Uranium-238	UNFILTERED	02/05/89	1035	1	pci/l	U
066826	Uranium-238	*U	1/06/90	1035	2.88	pci/l	-

TABLE A.2-21
SOLID WASTE LANDFILL - PERCHED GROUNDWATER (Outside Battery Limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
111549	Antimony	FILTERED	5/5/93	1038	0.0021	mg/l	UJ
111548	Antimony	UNFILTERED	5/5/93	1038	0.0031	mg/l	UJ
115468	Antimony	UNFILTERED	5/15/93	1952	0.005	mg/l	U
115471	Antimony	UNFILTERED	5/15/93	1952	0.005	mg/l	U
115481	Antimony	UNFILTERED	6/8/93	1950	0.0587	mg/l	U
115480	Antimony	UNFILTERED	6/8/93	1950	0.0587	mg/l	U
115468	Arsenic	UNFILTERED	05/15/93	1952	0.002	mg/l	UJ
115471	Arsenic	UNFILTERED	05/15/93	1952	0.0044	mg/l	-
115480	Arsenic	UNFILTERED	06/08/93	1950	0.0011	mg/l	-
115481	Arsenic	UNFILTERED	06/08/93	1950	0.002	mg/l	-
003762	Arsenic	FILTERED	11/20/88	1038	0.002	mg/l	UJ
003518	Arsenic	FILTERED	08/22/88	1038	0.002	mg/l	U
003183	Arsenic	FILTERED	05/11/88	1038	0.2	mg/l	U
111548	Arsenic	UNFILTERED	05/05/93	1038	0.0018	mg/l	-
111549	Arsenic	FILTERED	05/05/93	1038	0.002	mg/l	-
003947	Arsenic	FILTERED	02/05/89	1038	0.002	mg/l	U
111548	Benzo(a)anthracene	UNFILTERED	5/5/93	1038	10	ug/l	U
115468	Benzo(a)anthracene	UNFILTERED	5/15/93	1952	10	ug/l	U
115480	Benzo(a)anthracene	UNFILTERED	6/8/93	1950	10	ug/l	U
115468	Benzo(a)pyrene	UNFILTERED	05/15/93	1952	10	ug/l	U
115480	Benzo(a)pyrene	UNFILTERED	06/08/93	1950	10	ug/l	U
111548	Benzo(a)pyrene	UNFILTERED	05/05/93	1038	10	ug/l	UJ
115468	Benzo(b)fluoranthene	UNFILTERED	05/15/93	1952	10	ug/l	U
115480	Benzo(b)fluoranthene	UNFILTERED	06/08/93	1950	10	ug/l	U
111548	Benzo(b)fluoranthene	UNFILTERED	05/05/93	1038	10	ug/l	UJ
115468	Beryllium	UNFILTERED	05/15/93	1952	0.002	mg/l	U
115471	Beryllium	UNFILTERED	05/15/93	1952	0.0022	mg/l	-
115481	Beryllium	UNFILTERED	06/08/93	1950	0.0009	mg/l	U
115480	Beryllium	UNFILTERED	06/08/93	1950	0.0009	mg/l	U
111549	Beryllium	FILTERED	05/05/93	1038	0.001	mg/l	U
111548	Beryllium	UNFILTERED	05/05/93	1038	0.001	mg/l	U
066431	Beryllium	FILTERED	6/18/89	1038	0.001	mg/l	U
066495	Beryllium	FILTERED	8/13/89	1038	0.001	mg/l	U
115468	Carbazole	UNFILTERED	05/15/93	1952	10	ug/l	U
115480	Carbazole	UNFILTERED	06/08/93	1950	10	ug/l	U
111548	Carbazole	UNFILTERED	05/05/93	1038	10	ug/l	U
115468	Dibenzo(a,h)anthracene	UNFILTERED	05/15/93	1952	10	ug/l	U
115480	Dibenzo(a,h)anthracene	UNFILTERED	06/08/93	1950	10	ug/l	U
111548	Dibenzo(a,h)anthracene	UNFILTERED	05/05/93	1038	10	ug/l	UJ
115468	Indeno(1,2,3-cd)pyrene	UNFILTERED	05/15/93	1952	10	ug/l	U
115480	Indeno(1,2,3-cd)pyrene	UNFILTERED	06/08/93	1950	10	ug/l	U
111548	Indeno(1,2,3-cd)pyrene	UNFILTERED	05/05/93	1038	10	ug/l	UJ
115471	Neptunium-237	UNFILTERED	05/15/93	1952	0.249	pci/l	U
115480	Neptunium-237	UNFILTERED	06/08/93	1950	0.961	pci/l	U
115481	Neptunium-237	UNFILTERED	06/08/93	1950	1.94	pci/l	N
003762	Neptunium-237	UNFILTERED	11/20/88	1038	0.2	pci/l	UJ
003518	Neptunium-237	UNFILTERED	08/22/88	1038	1	pci/l	UJ
003183	Neptunium-237	UNFILTERED	05/11/88	1038	1	pci/l	U
111549	Neptunium-237	FILTERED	05/05/93	1038	0.48	pci/l	N
003947	Neptunium-237	UNFILTERED	02/05/89	1038	1	pci/l	U
115468	Plutonium-238	UNFILTERED	05/15/93	1952	0.069	pci/l	UJ

TABLE A.2-21
SOLID WASTE LANDFILL - PERCHED GROUNDWATER (Outside Battery Limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
115471	Plutonium-238	UNFILTERED	05/15/93	1952	0.169	pci/l	J
115480	Plutonium-238	UNFILTERED	06/08/93	1950	0.125	pci/l	UJ
115481	Plutonium-238	UNFILTERED	06/08/93	1950	0.144	pci/l	J
003762	Plutonium-238	UNFILTERED	11/20/88	1038	0.1	pci/l	UJ
003518	Plutonium-238	UNFILTERED	08/22/88	1038	1	pci/l	U
003183	Plutonium-238	UNFILTERED	05/11/88	1038	1	pci/l	U
111549	Plutonium-238	FILTERED	05/05/93	1038	0.06	pci/l	UJ
111548	Plutonium-238	UNFILTERED	05/05/93	1038	0.09	pci/l	UJ
003947	Plutonium-238	UNFILTERED	02/05/89	1038	1	pci/l	UJ
115468	Radium-226	UNFILTERED	05/15/93	1952	0.193	pci/l	J
115471	Radium-226	UNFILTERED	05/15/93	1952	5.11	pci/l	-
115480	Radium-226	UNFILTERED	06/08/93	1950	0.168	pci/l	UJ
115481	Radium-226	UNFILTERED	06/08/93	1950	0.821	pci/l	J
003762	Radium-226	UNFILTERED	11/20/88	1038	0.2	pci/l	UJ
003518	Radium-226	UNFILTERED	08/22/88	1038	1	pci/l	UJ
003183	Radium-226	UNFILTERED	05/11/88	1038	1	pci/l	U
111549	Radium-226	FILTERED	05/05/93	1038	0.15	pci/l	J
111548	Radium-226	UNFILTERED	05/05/93	1038	0.18	pci/l	UJ
003947	Radium-226	UNFILTERED	02/05/89	1038	1	pci/l	U
115468	Radium-228	UNFILTERED	05/15/93	1952	1.34	pci/l	U
115471	Radium-228	UNFILTERED	05/15/93	1952	3.72	pci/l	J
115481	Radium-228	UNFILTERED	06/08/93	1950	1.35	pci/l	UJ
115480	Radium-228	UNFILTERED	06/08/93	1950	1.94	pci/l	UJ
003762	Radium-228	UNFILTERED	11/20/88	1038	2.3	pci/l	UJ
003518	Radium-228	UNFILTERED	08/22/88	1038	3	pci/l	U
003183	Radium-228	UNFILTERED	05/11/88	1038	3	pci/l	U
111549	Radium-228	FILTERED	05/05/93	1038	1.16	pci/l	UJ
111548	Radium-228	UNFILTERED	05/05/93	1038	1.76	pci/l	UJ
003947	Radium-228	UNFILTERED	02/05/89	1038	3	pci/l	UJ
115480	Strontium-90	UNFILTERED	6/8/93	1950	0.744	pci/l	UJ
115481	Strontium-90	UNFILTERED	6/8/93	1950	0.774	pci/l	UJ
111548	Strontium-90	UNFILTERED	5/5/93	1038	0.78	pci/l	UJ
115468	Strontium-90	UNFILTERED	5/15/93	1952	0.9	pci/l	J
111549	Strontium-90	FILTERED	5/5/93	1038	1.08	pci/l	U
3762	Strontium-90	*U	11/20/88	1038	1.2	pci/l	UJ
115471	Strontium-90	UNFILTERED	5/15/93	1952	1.35	pci/l	J
3947	Strontium-90	*U	2/5/89	1038	5	pci/l	U
3183	Strontium-90	*U	5/11/88	1038	5	pci/l	U
3518	Strontium-90	*U	8/22/88	1038	5	pci/l	U
115471	Technetium-99	UNFILTERED	05/15/93	1952	8.1	pci/l	UJ
115468	Technetium-99	UNFILTERED	05/15/93	1952	8.3	pci/l	UJ
115481	Technetium-99	UNFILTERED	06/08/93	1950	10.88	pci/l	UJ
115480	Technetium-99	UNFILTERED	06/08/93	1950	11.42	pci/l	UJ
003762	Technetium-99	UNFILTERED	11/20/88	1038	26	pci/l	UJ
003518	Technetium-99	UNFILTERED	08/22/88	1038	30	pci/l	U
003183	Technetium-99	UNFILTERED	05/11/88	1038	30	pci/l	U
111548	Technetium-99	UNFILTERED	05/05/93	1038	10.9	pci/l	UJ
111549	Technetium-99	FILTERED	05/05/93	1038	11	pci/l	UJ
003947	Technetium-99	UNFILTERED	02/05/89	1038	30	pci/l	UJ
066431	Technetium-99	UNFILTERED	6/18/89	1038	30	pci/l	U
066495	Technetium-99	UNFILTERED	8/13/89	1038	30	pci/l	U

TABLE A.2-21
SOLID WASTE LANDFILL - PERCHED GROUNDWATER (Outside Battery Limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
115468	Thorium-228	UNFILTERED	05/15/93	1952	0.323	pci/l	UJ
115471	Thorium-228	UNFILTERED	05/15/93	1952	14	pci/l	-
115480	Thorium-228	UNFILTERED	06/08/93	1950	0.221	pci/l	UJ
115481	Thorium-228	UNFILTERED	06/08/93	1950	0.566	pci/l	J
003762	Thorium-228	UNFILTERED	11/20/88	1038	0.5	pci/l	UJ
003518	Thorium-228	UNFILTERED	08/22/88	1038	1	pci/l	UJ
003183	Thorium-228	UNFILTERED	05/11/88	1038	1	pci/l	U
111548	Thorium-228	UNFILTERED	05/05/93	1038	0.2	pci/l	UJ
111549	Thorium-228	FILTERED	05/05/93	1038	0.25	pci/l	U
003947	Thorium-228	UNFILTERED	02/05/89	1038	1	pci/l	U
066431	Thorium-228	UNFILTERED	6/18/89	1038	1	pci/l	U
066495	Thorium-228	UNFILTERED	8/13/89	1038	1	pci/l	U
115468	Thorium-230	UNFILTERED	05/15/93	1952	0.335	pci/l	J
115471	Thorium-230	UNFILTERED	05/15/93	1952	13.8	pci/l	-
115480	Thorium-230	UNFILTERED	06/08/93	1950	0.221	pci/l	UJ
115481	Thorium-230	UNFILTERED	06/08/93	1950	1.03	pci/l	-
003762	Thorium-230	UNFILTERED	11/20/88	1038	0.5	pci/l	UJ
003518	Thorium-230	UNFILTERED	08/22/88	1038	1	pci/l	UJ
003183	Thorium-230	UNFILTERED	05/11/88	1038	1	pci/l	U
111548	Thorium-230	UNFILTERED	05/05/93	1038	0.26	pci/l	J
111549	Thorium-230	FILTERED	05/05/93	1038	0.29	pci/l	-
003947	Thorium-230	UNFILTERED	02/05/89	1038	1	pci/l	U
066431	Thorium-230	UNFILTERED	6/18/89	1038	1	pci/l	U
066495	Thorium-230	UNFILTERED	8/13/89	1038	1	pci/l	U
115468	Thorium-232	UNFILTERED	05/15/93	1952	0.094	pci/l	UJ
115471	Thorium-232	UNFILTERED	05/15/93	1952	11.5	pci/l	-
115480	Thorium-232	UNFILTERED	06/08/93	1950	0.145	pci/l	UJ
115481	Thorium-232	UNFILTERED	06/08/93	1950	0.654	pci/l	J
003762	Thorium-232	UNFILTERED	11/20/88	1038	0.5	pci/l	UJ
003518	Thorium-232	UNFILTERED	08/22/88	1038	1	pci/l	UJ
003183	Thorium-232	UNFILTERED	05/11/88	1038	1	pci/l	U
111548	Thorium-232	UNFILTERED	05/05/93	1038	0.14	pci/l	UJ
111549	Thorium-232	FILTERED	05/05/93	1038	0.2	pci/l	UJ
003947	Thorium-232	UNFILTERED	02/05/89	1038	1	pci/l	U
115468	Uranium, Total	UNFILTERED	05/15/93	1952	15.8	ug/l	-
115471	Uranium, Total	UNFILTERED	05/15/93	1952	55.8	ug/l	-
115480	Uranium, Total	UNFILTERED	06/08/93	1950	7.67	ug/l	-
115481	Uranium, Total	UNFILTERED	06/08/93	1950	11	ug/l	-
003762	Uranium, Total	UNFILTERED	11/20/88	1038	4.5	ug/l	J
003518	Uranium, Total	UNFILTERED	08/22/88	1038	4	ug/l	-
003183	Uranium, Total	UNFILTERED	05/11/88	1038	5	ug/l	J
111548	Uranium, Total	UNFILTERED	05/05/93	1038	4.11	ug/l	-
111549	Uranium, Total	FILTERED	05/05/93	1038	4.95	ug/l	-
003947	Uranium, Total	UNFILTERED	02/05/89	1038	4	ug/l	-
066431	Uranium, Total	UNFILTERED	6/18/89	1038	5	ug/l	-
066495	Uranium, Total	UNFILTERED	8/13/89	1038	4	ug/l	-
115468	Uranium-234	UNFILTERED	05/15/93	1952	4.87	pci/l	-
115471	Uranium-234	UNFILTERED	05/15/93	1952	12	pci/l	-
115480	Uranium-234	UNFILTERED	06/08/93	1950	3.5	pci/l	-
115481	Uranium-234	UNFILTERED	06/08/93	1950	5.06	pci/l	-
003762	Uranium-234	UNFILTERED	11/20/88	1038	2.3	pci/l	J

TABLE A.2-21
SOLID WASTE LANDFILL - PERCHED GROUNDWATER (Outside Battery Limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
003518	Uranium-234	UNFILTERED	08/22/88	1038	1.9	pci/l	J
003183	Uranium-234	UNFILTERED	05/11/88	1038	1.7	pci/l	-
111549	Uranium-234	FILTERED	05/05/93	1038	2.3	pci/l	-
111548	Uranium-234	UNFILTERED	05/05/93	1038	2.34	pci/l	-
003947	Uranium-234	UNFILTERED	02/05/89	1038	1.5	pci/l	-
066431	Uranium-234	UNFILTERED	6/18/89	1038	3.1	pci/l	-
066495	Uranium-234	UNFILTERED	8/13/89	1038	1.7	pci/l	J
115468	Uranium-235/236	UNFILTERED	05/15/93	1952	0.412	pci/l	J
115471	Uranium-235/236	UNFILTERED	05/15/93	1952	0.432	pci/l	J
115481	Uranium-235/236	UNFILTERED	06/08/93	1950	0.132	pci/l	UJ
115480	Uranium-235/236	UNFILTERED	06/08/93	1950	0.208	pci/l	-
003762	Uranium-235/236	UNFILTERED	11/20/88	1038	0.5	pci/l	UJ
003518	Uranium-235/236	UNFILTERED	08/22/88	1038	1	pci/l	UJ
003183	Uranium-235/236	UNFILTERED	05/11/88	1038	1	pci/l	U
111549	Uranium-235/236	FILTERED	05/05/93	1038	0.05	pci/l	J
111548	Uranium-235/236	UNFILTERED	05/05/93	1038	0.12	pci/l	UJ
003947	Uranium-235/236	UNFILTERED	02/05/89	1038	1	pci/l	U
066431	Uranium-235/236	UNFILTERED	6/18/89	1038	1	pci/l	U
066495	Uranium-235/236	UNFILTERED	8/13/89	1038	1	pci/l	U
115468	Uranium-238	UNFILTERED	05/15/93	1952	6.77	pci/l	-
115471	Uranium-238	UNFILTERED	05/15/93	1952	15.2	pci/l	-
115480	Uranium-238	UNFILTERED	06/08/93	1950	2.82	pci/l	-
115481	Uranium-238	UNFILTERED	06/08/93	1950	4.83	pci/l	-
003762	Uranium-238	UNFILTERED	11/20/88	1038	1.2	pci/l	J
003518	Uranium-238	UNFILTERED	08/22/88	1038	1.4	pci/l	J
003183	Uranium-238	UNFILTERED	05/11/88	1038	1.4	pci/l	-
111548	Uranium-238	UNFILTERED	05/05/93	1038	1.56	pci/l	-
111549	Uranium-238	FILTERED	05/05/93	1038	1.67	pci/l	-
003947	Uranium-238	UNFILTERED	02/05/89	1038	1.5	pci/l	-
066431	Uranium-238	UNFILTERED	6/18/89	1038	2	pci/l	-
066495	Uranium-238	UNFILTERED	8/13/89	1038	1.3	pci/l	J

APPENDIX A.3

LIME SLUDGE PONDS

TABLE A.3–1
STATISTICAL SUMMARY FOR SOIL/WASTE
LIME SLUDGE PONDS

Analyte	Units	Distribution	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N)	95%(N)	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
LSP – Surface Soil																	
Arsenic	mg/kg	Normal	12	12	3.5	9.5	–	–	6.35	7.38	9.01	–	–	–	–	–	7.38
Cesium–137	pci/g	LogNormal	12	9	0.064	0.89	0.07	0.09	–	–	–	0.27	0.70	0.88	–	–	0.70
Neptunium–237	pci/g	LogNormal	12	12	0.04	0.72	–	–	–	–	–	0.27	0.77	0.91	–	–	0.77
Radium–226	pci/g	Normal	12	10	0.205	3.47	0.20	0.21	1.32	2.05	3.21	–	–	–	–	–	2.05
Radium–228	pci/g	Normal	12	8	0.709	2.92	0.36	0.46	1.15	1.75	2.71	–	–	–	–	–	1.75
Strontium–90	pci/g	Undefined	11	2	0.508	0.785	0.159	0.627	0.26959	–	–	–	–	–	0.51	0.785	0.785
Technetium–99	pci/g	Undefined	12	0	–	–	0.34	0.42	0.19	–	–	–	–	–	0.21	0.21	–
Thorium–228	pci/g	Undefined	11	10	0.082	2.91	0.31	0.31	1.06	–	–	–	–	–	1.06	2.91	2.91
Thorium–230	pci/g	Undefined	11	11	0.373	44.8	–	–	13.76	–	–	–	–	–	40.90	44.80	44.80
Thorium–232	pci/g	Normal	10	9	0.037	2.75	0.22	0.22	0.86	1.41	2.13	–	–	–	–	–	1.41
Uranium, Total	mg/kg	LogNormal	12	12	2.45	244	–	–	–	–	–	55.54	214.32	201.78	–	–	214.32
U–234	pci/g	LogNormal	12	12	1.08	26.5	–	–	–	–	–	8.90	21.00	27.70	–	–	21.00
U–235/236	pci/g	LogNormal	12	12	0.025	1.83	–	–	–	–	–	0.56	1.74	1.92	–	–	1.74
Uranium–238	pci/g	LogNormal	12	12	0.856	84	–	–	–	–	–	16.86	71.39	62.25	–	–	71.39
LSP – Surface Soil Without Road Samples																	
Arsenic	mg/kg	Normal	10	10	3.5	9.5	–	–	6.34	7.60	9.23	–	–	–	–	–	7.60
Cesium–137	pci/g	Normal	10	7	0.064	0.339	0.07	0.09	0.16	0.23	0.33	–	–	–	–	–	0.23
Neptunium–237	pci/g	LogNormal	10	10	0.04	0.59	–	–	–	–	–	0.16	0.41	0.49	–	–	0.41
Radium–226	pci/g	Normal	10	8	0.205	2.45	0.20	0.21	0.93	1.46	2.15	–	–	–	–	–	1.46
Radium–228	pci/g	Undefined	10	6	0.709	1.47	0.36	0.46	0.80	–	–	–	–	–	1.42	1.47	1.47
Strontium–90	pci/g	Undefined	9	1	0.508	0.508	0.159	0.627	0.231	–	–	–	–	–	0.508	0.508	0.508
Technetium–99	pci/g	Undefined	10	0	–	–	0.34	0.42	–	–	–	–	–	–	0.21	0.21	–
Thorium–228	pci/g	Undefined	9	8	0.082	1.06	0.31	0.31	0.69	–	–	–	–	–	0.98	1.06	1.06
Thorium–230	pci/g	LogNormal	9	9	0.373	44.8	–	–	–	–	–	6.76	43.10	24.78	–	–	43.10
Thorium–232	pci/g	Normal	9	8	0.037	1.13	0.22	0.22	0.65	0.97	1.33	–	–	–	–	–	0.97
Uranium, Total	mg/kg	Normal	10	10	2.45	35.8	–	–	20.24	28.18	38.51	–	–	–	–	–	28.18
U–234	pci/g	Normal	10	10	1.08	8	–	–	4.99	6.90	9.39	–	–	–	–	–	6.90
U–235/236	pci/g	Normal	10	10	0.025	0.42	–	–	0.26	0.36	0.50	–	–	–	–	–	0.36
Uranium–238	pci/g	Normal	10	10	0.856	9.54	–	–	5.62	7.95	10.99	–	–	–	–	–	7.95
LSP – Sludge Samples																	
Arsenic	mg/kg	LogNormal	15	15	1.7	11.2	–	–	–	–	–	5.22	7.15	11.13	–	–	7.15
Cesium–137	pci/g	Undefined	15	4	0.029	0.145	0.01	0.20	0.06	–	–	–	–	–	0.03	0.15	0.15
Neptunium–237	pci/g	LogNormal	7	7	0.04	0.59	–	–	–	–	–	0.17	0.57	0.48	–	–	0.57
Radium–226	pci/g	Normal	15	12	0.205	1.05	0.20	0.30	0.44	0.59	0.89	–	–	–	–	–	0.59
Radium–228	pci/g	Undefined	15	3	0.59	0.78	0.36	0.50	0.31	–	–	–	–	–	0.59	0.78	0.78
Strontium–90	pci/g	Undefined	14	0	–	–	0.13	0.5	0.131357	–	–	–	–	–	0.25	0.25	–
Technetium–99	pci/g	Undefined	13	1	0.89	0.89	0.05	0.65	0.26	–	–	–	–	–	0.89	0.89	0.89
Thorium–228	pci/g	LogNormal	13	9	0.082	1.46	0.11	0.60	–	–	–	0.31	0.66	0.94	–	–	0.66
Thorium–230	pci/g	LogNormal	13	11	0.294	3.06	0.60	1.20	–	–	–	1.24	2.33	3.47	–	–	2.33
Thorium–232	pci/g	LogNormal	13	9	0.037	0.53	0.22	0.60	–	–	–	0.19	0.31	0.47	–	–	0.31
Uranium, Total	mg/kg	Normal	15	15	2.08	20.5	–	–	9.74	12.91	19.17	–	–	–	–	–	12.91
U–234	pci/g	LogNormal	15	15	0.866	6.09	–	–	–	–	–	2.18	2.95	4.57	–	–	2.95
I–235/2326	pci/g	LogNormal	15	13	0.025	0.96	–	–	–	–	–	0.22	0.40	0.63	–	–	0.4
Uranium–238	pci/g	LogNormal	15	15	0.712	6.67	–	–	–	–	–	2.20	3.11	4.91	–	–	3.11
LSP – Berm Material																	
Arsenic	mg/kg	Normal	20	20	5.1	8.8	–	–	7.15	7.68	9.03	–	–	–	–	–	7.68
Cesium–137	pci/g	LogNormal	21	14	0.064	0.339	0.09	0.20	–	–	–	0.13	0.18	0.31	–	–	0.18
Neptunium–237	pci/g	LogNormal	21	20	0.03	0.541	0.60	0.60	–	–	–	0.19	0.31	0.55	–	–	0.31

006499

TABLE A.3–1
STATISTICAL SUMMARY FOR SOIL/WASTE
LIME SLUDGE PONDS

Analyte	Units	Distribution	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N)	95%(N)	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
Radium–226	pci/g	Undefined	21	21	0.953	3.48	–	–	1.47	–	–	–	–	–	1.26	3.15	3.15
Radium–228	pci/g	LogNormal	21	21	0.709	2	–	–	–	–	–	1.26	1.38	1.79	–	–	1.38
Strontium–90	pci/g	Undefined	19	5	0.41	0.959	0.24	0.725	0.35	–	–	–	–	–	0.41	0.96	0.96
Technetium–99	pci/g	Undefined	20	2	1.05	1.79	0.33	0.40	0.31	–	–	–	–	–	1.05	1.05	1.05
Thorium–228	pci/g	LogNormal	19	19	0.859	1.75	–	–	–	–	–	1.08	1.17	1.46	–	–	1.17
Thorium–230	pci/g	LogNormal	20	20	1.15	44.8	–	–	–	–	–	6.85	12.25	21.31	–	–	12.25
Thorium–232	pci/g	LogNormal	19	19	0.693	1.5	–	–	–	–	–	0.98	1.06	1.29	–	–	1.06
Uranium, Total	mg/kg	LogNormal	20	20	11.2	51.6	–	–	–	–	–	24.81	29.36	43.40	–	–	29.36
U–234	pci/g	Undefined	21	21	2.67	19.5	–	–	5.89	–	–	–	–	–	5.58	13.40	13.40
U–235/236	pci/g	Undefined	21	20	0.143	1.313	0.6	0.6	0.33	–	–	–	–	–	0.29	0.77	0.77
Uranium–238	pci/g	LogNormal	21	21	2.75	20.4	–	–	–	–	–	6.83	8.45	13.42	–	–	8.45
LSP – Till Inside Battery Limits																	
Arsenic	mg/kg	LogNormal	10	10	1.1	14.6	–	–	–	–	–	7.33	14.89	19.67	–	–	14.89
Cesium–137	pci/g	Undefined	11	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Neptunium–237	pci/g	Undefined	8	6	0.05	0.129	0.03	0.60	0.09	–	–	–	–	–	0.08	0.13	0.13
Radium–226	pci/g	LogNormal	11	11	0.83	1.37	–	–	–	–	–	1.07	1.19	1.42	–	–	1.19
Radium–228	pci/g	Normal	11	10	0.67	1.44	0.50	0.50	0.90	1.11	1.41	–	–	–	–	–	1.11
Strontium–90	pci/g	Undefined	11	3	0.237	0.538	0.16	0.5	0.186909	–	–	–	–	–	0.237	0.538	0.54
Technetium–99	pci/g	Undefined	11	0	–	–	0.37	0.90	0.27	–	–	–	–	–	0.45	0.45	–
Thorium–228	pci/g	Normal	11	11	0.48	1.27	–	–	0.80	0.97	1.21	–	–	–	–	–	0.97
Thorium–230	pci/g	LogNormal	11	10	0.48	4.51	1.12	1.12	–	–	–	1.57	2.49	3.60	–	–	2.49
Thorium–232	pci/g	Normal	11	11	0.335	1.26	–	–	0.82	1.05	1.37	–	–	–	–	–	1.05
Uranium, Total	mg/kg	Undefined	10	10	2.17	14.3	–	–	10.29	–	–	–	–	–	13.70	14.30	14.30
U–234	pci/g	Normal	11	11	0.62	1.29	–	–	0.96	1.1	1.3	–	–	–	–	–	1.1
U–235/236	pci/g	LogNormal	11	9	0.03	0.117	0.04	0.6	–	–	–	0.08	0.15	0.21	–	–	0.15
Uranium–238	pci/g	Normal	11	11	0.59	1.37	–	–	0.97	1.14	1.39	–	–	–	–	–	1.14
LSP – Till Outside Battery Limits *																	
Cesium–137	pci/g	Undefined	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Neptunium–237	pci/g	Undefined	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium–226	pci/g	Undefined	1	1	1	1	–	–	1.00	–	–	–	–	–	1.00	1.00	1.00
Radium–228	pci/g	Undefined	1	1	1.2	1.2	–	–	1.20	–	–	–	–	–	1.20	1.20	1.20
Strontium–90	pci/g	Undefined	1	1	6	6	–	–	6	–	–	–	–	–	6	6	6
Technetium–99	pci/g	Undefined	1	0	–	–	0.90	0.90	0.45	–	–	–	–	–	0.45	0.45	–
Thorium–228	pci/g	Undefined	1	1	1	1	–	–	1.00	–	–	–	–	–	1.00	1.00	1.00
Thorium–230	pci/g	Undefined	1	1	2.3	2.3	–	–	2.30	–	–	–	–	–	2.30	2.30	2.30
Thorium–232	pci/g	Undefined	1	1	1.3	1.3	–	–	1.30	–	–	–	–	–	1.30	1.30	1.30
U–234	pci/g	Undefined	1	1	0.8	0.8	–	–	0.8	–	–	–	–	–	0.8	0.8	0.8
U–235/236	pci/g	Undefined	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Uranium–238	pci/g	Undefined	1	1	0.9	0.9	–	–	0.90	–	–	–	–	–	0.90	0.90	0.90
LSP – K65 Trench Vicinity *																	
Arsenic	mg/kg	LogNormal	9	9	5.8	9	–	–	–	–	–	7.69	8.57	9.91	–	–	8.57
Cesium–137	pci/g	Normal	9	8	0.092	0.21	0.09	0.09	0.13	0.18	0.23	–	–	–	–	–	0.18
Neptunium–237	pci/g	Normal	9	9	0.03	0.305	–	–	0.13	0.20	0.28	–	–	–	–	–	0.20
Radium–226	pci/g	Undefined	9	9	1.06	5.93	–	–	2.27	–	–	–	–	–	3.48	5.93	5.93
Radium–228	pci/g	LogNormal	9	9	1.02	2	–	–	–	–	–	1.44	1.69	2.04	–	–	1.69
Strontium–90	pci/g	Undefined	9	2	0.268	0.841	0.16	0.419	0.237388	–	–	–	–	–	0.268	0.841	0.84
Technetium–99	pci/g	Undefined	9	2	1.05	1.79	0.34	0.45	0.46	–	–	–	–	–	1.05	1.79	1.79
Thorium–228	pci/g	LogNormal	9	9	0.95	1.75	–	–	–	–	–	1.27	1.51	1.87	–	–	1.51
Thorium–230	pci/g	LogNormal	9	9	1.8	20.3	–	–	–	–	–	7.24	20.65	21.97	–	–	20.65

TABLE A.3-1
STATISTICAL SUMMARY FOR SOIL/WASTE
LIME SLUDGE PONDS

Analyte	Units	Distribution	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N)	95%(N)	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
Thorium-232	pci/g	LogNormal	9	9	0.912	1.43	–	–	–	–	–	1.04	1.14	1.30	–	–	1.14
Uranium, Total	mg/kg	LogNormal	9	9	11.5	51.6	–	–	–	–	–	30.01	42.52	56.70	–	–	42.52
U-234	pci/g	LogNormal	9	9	3.64	19.5	–	–	–	–	–	7.53	12.46	16.67	–	–	12.46
U-235/236	pci/g	LogNormal	9	9	0.2	1.313	–	–	–	–	–	0.43	0.78	1.02	–	–	0.78
Uranium-238	pci/g	LogNormal	9	9	3.91	20.4	–	–	–	–	–	8.67	13.88	18.63	–	–	13.88
LSP – GMA Soil, Outside Battery Limits *																	
Cesium-137	pci/g	Undefined	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Neptunium-237	pci/g	Undefined	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium-226	pci/g	Undefined	1	1	0.4	0.4	–	–	0.40	–	–	–	–	–	0.40	0.40	0.40
Radium-228	pci/g	Undefined	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Strontium-90	pci/g	Undefined	1	0	–	–	0.5	0.5	–	–	–	–	–	–	–	–	–
Technetium-99	pci/g	Undefined	1	0	–	–	0.90	0.90	0.45	–	–	–	–	–	0.45	0.45	
Thorium-228	pci/g	Undefined	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium-230	pci/g	Undefined	1	1	1.3	1.3	–	–	1.30	–	–	–	–	–	1.30	1.30	1.30
Thorium-232	pci/g	Undefined	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
U-234	pci/g	Undefined	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
U-235/236	pci/g	Undefined	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Uranium-238	pci/g	Undefined	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–

* COCs not listed have no data available for this media classification

000201

TABLE A.3-2
STATISTICAL SUMMARY FOR PERCHED GROUNDWATER
LIME SLUDGE PONDS

Analyte	Filtered?	Distribution	Units	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N	95%(N	Est. Mean	UCL(L	95%(L)	UCL(M)	95%(NP)	Conc. Term
LSP – Perched Groundwater, Inside Battery Limits																		
Arsenic	Unfiltered	Undefined	mg/l	5	4	0.002	0.005	0.001	0.001	0.003	–	–	–	–	–	0.005	0.005	0.005
Arsenic	Filtered	Undefined	mg/l	10	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Cesium-137	Filtered	Undefined	pci/l	2	2	–	–	–	–	–	–	–	–	–	–	–	–	–
Cesium-137	Unfiltered	Undefined	pci/l	5	2	–	–	–	–	–	–	–	–	–	–	–	–	–
Neptunium-237	Unfiltered	Undefined	pci/l	12	1	0.339	0.339	0.15	1	0.361	–	–	–	–	–	0.339	0.339	0.339
Neptunium-237	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium-226	Unfiltered	Undefined	pci/l	13	3	0.3	1.21	0.378	1	0.478	–	–	–	–	–	0.300	1.210	1.210
Radium-226	Filtered	Undefined	pci/l	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium-228	Unfiltered	Undefined	pci/l	12	2	3.68	3.8	1.29	3	1.734	–	–	–	–	–	3.68	3.8	3.8
Radium-228	Filtered	Undefined	pci/l	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Strontium-90	Unfiltered	Undefined	pci/l	13	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Strontium-90	Filtered	Undefined	pci/l	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Technetium-99	Unfiltered	Undefined	pci/l	13	0	–	–	9.1	30	–	–	–	–	–	–	–	–	–
Technetium-99	Filtered	Undefined	pci/l	2	0	–	–	10	10.7	–	–	–	–	–	–	–	–	–
Thorium-228	Unfiltered	Undefined	pci/l	13	5	0.78	2.37	0.227	1	0.763	–	–	–	–	–	1.1	2.37	2.37
Thorium-228	Filtered	Undefined	pci/l	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium-230	Unfiltered	LogNormal	pci/l	13	7	1.29	3.04	0.123	1	–	–	–	1.392	3.373	4.495	–	–	3.040
Thorium-230	Filtered	Undefined	pci/l	2	1	0.251	0.251	0.41	0.41	0.228	–	–	–	–	–	0.251	0.251	0.251
Thorium-232	Unfiltered	Undefined	pci/l	13	3	0.74	1.91	0.122	1	0.568	–	–	–	–	–	0.740	1.91	1.91
Thorium-232	Filtered	Undefined	pci/l	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Uranium, Total	Filtered	Undefined	ug/l	2	1	8.3	8.3	1	1	4.400	–	–	–	–	–	8.3	8.3	8.3
Uranium, Total	Unfiltered	Normal	ug/l	13	12	1	9	2	2	5.166	6.941	9.997	–	–	–	–	–	6.941
U-234	Unfiltered	Normal	pci/l	12	10	0.5	3.34	1	1	1.941	2.636	3.74	–	–	–	–	–	2.636
U-234	Filtered	Undefined	pci/l	2	2	0.391	2.45	–	–	1.421	–	–	–	–	–	2.45	2.45	2.45
U-235/236	Filtered	Undefined	pci/l	2	1	0.18	0.18	0.058	0.058	0.105	–	–	–	–	–	0.18	0.18	0.18
U-235/236	Unfiltered	Undefined	pci/l	13	5	0.076	0.212	0.3	1	0.335	–	–	–	–	–	0.078	0.212	0.212
Uranium-238	Unfiltered	Normal	pci/l	13	11	0.3	3.67	1	1	2.046	2.702	3.832	–	–	–	–	–	2.702
Uranium-238	Filtered	Undefined	pci/l	2	2	0.416	2.72	–	–	1.568	–	–	–	–	–	2.72	2.72	2.72
LSP – Perched Groundwater, Outside Battery Limits																		
Arsenic	Unfiltered	Undefined	mg/l	1	1	0.007	0.007	–	–	0.007	–	–	–	–	–	0.007	0.007	0.007
Arsenic	Filtered	Undefined	mg/l	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Cesium-137	Unfiltered	Undefined	pci/l	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Neptunium-237	Unfiltered	Undefined	pci/l	5	1	0.494	0.494	1	1	0.499	–	–	–	–	–	0.494	0.494	0.494
Radium-226	Unfiltered	Undefined	pci/l	6	2	0.210	0.813	1	1	0.505	–	–	–	–	–	0.813	0.813	0.813
Strontium-90	Unfiltered	Undefined	pci/l	7	1	3.45	3.45	0.781	5	2.0467	–	–	–	–	–	3.45	3.45	3.45
Technetium-99	Unfiltered	Undefined	pci/l	6	0	–	–	8	30	–	–	–	–	–	–	–	–	–
Thorium-228	Unfiltered	Undefined	pci/l	6	1	1.518	1.518	0.24	1	0.628	–	–	–	–	–	1.518	1.518	1.518
Thorium-230	Unfiltered	Undefined	pci/l	6	1	3.412	3.412	0.17	1	0.999	–	–	–	–	–	3.412	3.412	3.412
Thorium-232	Unfiltered	Undefined	pci/l	6	1	1.383	1.383	0.17	1	0.594	–	–	–	–	–	1.383	1.383	1.383
Uranium, Total	Unfiltered	LogNormal	ug/l	9	9	6	58	–	–	–	–	–	22.787	50.401	58.683	–	–	50.401
U-234	Unfiltered	LogNormal	pci/l	5	4	2.5	11.02	1	1	4.838	–	–	–	–	–	11.02	11.02	11.02
U-235/236	Unfiltered	LogNormal	pci/l	6	2	0.213	0.7	1	1	0.491	–	–	–	–	–	0.7	0.7	0.7
Uranium-238	Unfiltered	Undefined	pci/l	6	5	2.2	11.81	1	1	5.806	–	–	–	–	–	11.81	11.81	11.810

000203

TABLE A.3-3

SAMPLE LIST - SURFACE SOIL
LIME SLUDGE PONDS

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
114467	01-MAY-93	LSP-SS-03	0.0	0.5	1379736.03	480434.62	1348267.08	480464.01
114474	02-MAY-93	LSP-SS-04	0.0	0.5	1379579.36	480436.75	1348110.41	480466.14
114477	02-MAY-93	LSP-SS-07	0.0	0.5	1379792.92	480588.71	1348323.91	480618.10
114485	03-MAY-93	LSP-SS-05	0.0	0.5	1379596.89	480516.45	1348127.94	480545.84
114487	03-MAY-93	LSP-SS-06	0.0	0.5	1379738.16	480521.23	1348269.21	480550.62
114488	03-MAY-93	LSP-SS-08	0.0	0.5	1379535.81	480605.90	1348066.86	480635.29
114498	04-MAY-93	LSP-SS-11	0.0	0.5	1379590.24	480723.71	1348121.29	480753.10
114501	04-MAY-93	LSP-SS-12	0.0	0.5	1379744.52	480719.30	1348275.57	480748.69
114514	05-MAY-93	LSP-SS-13	0.0	0.5	1379738.46	480765.64	1348269.51	480795.03
114516	05-MAY-93	LSP-SS-14	0.0	0.5	1379577.51	480752.54	1348108.56	480781.93
114598	19-MAY-93	LSP-SS-09	0.0	0.5	1379714.28	480671.81	1348245.27	480701.20
114881	14-JUN-93	LSP-SS-10	0.0	0.5	1379679.61	480669.92	1348210.66	480699.31

000203

TABLE A.3-4

SAMPLE LIST - SLUDGE SAMPLES
LIME SLUDGE PONDS

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
067902	06-NOV-91	1716	0.0	2.0				
067904	06-NOV-91	1716	0.0	2.0				
114485	03-MAY-93	LSP-SS-05	0.0	0.5	1379596.89	480516.45	1348127.94	480545.84
114487	03-MAY-93	LSP-SS-06	0.0	0.5	1379738.16	480521.23	1348269.21	480550.62
114564	05-MAY-93	LSP-SB-01	0.5	1.0	1379549.95	480660.61	1348081.00	480690.00
114598	19-MAY-93	LSP-SS-09	0.0	0.5	1379714.28	480671.81	1348245.27	480701.20
114605	20-MAY-93	1962	4.5	7.0	1379722.60	480478.97	1348253.59	480508.35
114734	27-MAY-93	1960	5.0	6.0	1379613.64	480529.93	1348144.63	480559.31
114745	01-JUN-93	1961	2.0	4.0	1379613.05	480481.34	1348144.04	480510.72
114762	03-JUN-93	1963	2.0	4.0	1379721.41	480528.15	1348252.40	480557.53
114812	05-JUN-93	1959	3.0	5.0	1379723.96	480707.08	1348254.95	480736.47
114821	06-JUN-93	1958	0.5	2.5	1379736.65	480603.47	1348267.64	480632.85
114835	07-JUN-93	1957	0.5	2.0	1379600.76	480600.28	1348131.75	480629.66
114857	08-JUN-93	1956	0.0	4.0	1379598.88	480708.18	1348129.87	480737.56
114872	10-JUN-93	1957	0.5	2.0	1379600.76	480600.28	1348131.75	480629.66
114881	14-JUN-93	LSP-SS-10	0.0	0.5	1379679.61	480669.92	1348210.66	480699.31

TABLE A.3-5

SAMPLE LIST - BERM SAMPLES
LIME SLUDGE PONDS

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
008448	10-APR-88	1041	0.0	1.5	1379798.68	480550.15	1348329.67	480579.54
114467	01-MAY-93	LSP-SS-03	0.0	0.5	1379736.03	480434.62	1348267.08	480464.01
114469	01-MAY-93	LSP-SS-03	0.0	0.5	1379736.03	480434.62	1348267.08	480464.01
114474	02-MAY-93	LSP-SS-04	0.0	0.5	1379579.36	480436.75	1348110.41	480466.14
114476	02-MAY-93	LSP-SS-04	0.5	1.0	1379579.36	480436.75	1348110.41	480466.14
114477	02-MAY-93	LSP-SS-07	0.0	0.5	1379792.92	480588.71	1348323.91	480618.10
114479	02-MAY-93	LSP-SS-07	0.5	1.0	1379792.92	480588.71	1348323.91	480618.10
114488	03-MAY-93	LSP-SS-08	0.0	0.5	1379535.81	480605.90	1348066.86	480635.29
114490	03-MAY-93	LSP-SS-08	0.5	1.0	1379535.81	480605.90	1348066.86	480635.29
114498	04-MAY-93	LSP-SS-11	0.0	0.5	1379590.24	480723.71	1348121.29	480753.10
114500	04-MAY-93	LSP-SS-11	0.5	1.0	1379590.24	480723.71	1348121.29	480753.10
114501	04-MAY-93	LSP-SS-12	0.0	0.5	1379744.52	480719.30	1348275.57	480748.69
114503	04-MAY-93	LSP-SS-12	0.5	1.0	1379744.52	480719.30	1348275.57	480748.69
114508	05-MAY-93	LSP-SB-02	0.5	1.0	1379543.95	480510.61	1348075.00	480540.00
114510	05-MAY-93	LSP-SB-03	0.5	1.0	1379668.95	480435.61	1348200.00	480465.00
114570	06-MAY-93	LSP-SB-04	0.5	1.0	1379790.45	480509.36	1348321.50	480538.75
114572	06-MAY-93	LSP-SB-04	1.0	3.0			1348321.50	480538.75
114576	06-MAY-93	LSP-SB-07	0.5	1.0	1379668.45	480579.61	1348199.50	480609.00
114578	06-MAY-93	LSP-SB-07	1.0	3.0			1348199.50	480609.00
114600	10-MAY-93	LSP-SB-05	0.5	1.0	1379795.95	480652.61	1348327.00	480682.00
114602	10-MAY-93	LSP-SB-06	0.5	1.0	1379675.45	480720.61	1348206.50	480750.00
114868	09-JUN-93	LSP-SB-04	0.5	1.0	1379790.45	480509.36	1348321.50	480538.75

000205

6645

TABLE A.3-6

SAMPLE LIST - TILL
LIME SLUDGE PONDS

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
008439	08-APR-88	1039	12.0	13.5	1379659.11	480729.12	1348190.10	480758.51
114607	25-MAY-93	1962	12.5	14.0	1379722.60	480478.97	1348253.59	480508.35
114737	28-MAY-93	1960	13.0	13.5	1379613.64	480529.93	1348144.63	480559.31
114743	01-JUN-93	1961	12.0	13.0	1379613.05	480481.34	1348144.04	480510.72
114766	03-JUN-93	1963	13.5	15.5	1379721.41	480528.15	1348252.40	480557.53
114814	05-JUN-93	1959	8.0	8.5	1379723.96	480707.08	1348254.95	480736.47
114815	05-JUN-93	1959	11.0	13.5	1379723.96	480707.08	1348254.95	480736.47
114823	06-JUN-93	1958	4.5	5.0	1379736.65	480603.47	1348267.64	480632.85
114838	07-JUN-93	1957	4.0	5.0	1379600.76	480600.28	1348131.75	480629.66
114859	08-JUN-93	1956	6.0	7.0	1379598.88	480708.18	1348129.87	480737.56
114874	11-JUN-93	1963	17.0	18.0	1379721.41	480528.15	1348252.40	480557.53

TABLE A.3-7

SAMPLE LIST - TILL
OUTSIDE BATTERY LIMITS
LIME SLUDGE PONDS

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
008869	11-APR-88	2042	3.0	4.5	1379542.73	480394.27	1348073.72	480423.64

000207

TABLE A.3-8

SAMPLE LIST - K65 TRENCH VICINITY
LIME SLUDGE PONDS

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
114467	01-MAY-93	LSP-SS-03	0.0	0.5	1379736.03	480434.62	1348267.08	480464.01
114469	01-MAY-93	LSP-SS-03	0.0	0.5	1379736.03	480434.62	1348267.08	480464.01
114474	02-MAY-93	LSP-SS-04	0.0	0.5	1379579.36	480436.75	1348110.41	480466.14
114476	02-MAY-93	LSP-SS-04	0.5	1.0	1379579.36	480436.75	1348110.41	480466.14
114510	05-MAY-93	LSP-SB-03	0.5	1.0	1379668.95	480435.61	1348200.00	480465.00
114581	11-MAY-93	LSP-TR-01	0.0	0.5				
114589	16-MAY-93	LSP-TR-01	0.0	0.5				
114591	16-MAY-93	LSP-TR-02	0.0	0.5				
114767	25-MAY-93	K-65 TRENCH	0.0	6.0				
114776	07-JUN-93	K-65 TRENCH	0.0	6.0				

TABLE A.3-9

SAMPLE LIST - GMA SOIL
OUTSIDE BATTERY LIMITS
LIME SLUDGE PONDS

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
008509	12-APR-88	2042	45.0	46.5	1379542.73	480394.27	1348073.72	480423.64

000603

TABLE A.3-10

SAMPLE LIST - PERCHED GROUNDWATER
INSIDE BATTERY LIMITS
LIME SLUDGE PONDS

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
003179	11-MAY-88	1039	N\A	N\A	1379659.11	480729.12	1348190.10	480758.51
003180	11-MAY-88	1041	N\A	N\A	1379798.68	480550.15	1348329.67	480579.54
003490	10-AUG-88	1041	N\A	N\A	1379798.68	480550.15	1348329.67	480579.54
003491	10-AUG-88	1039	N\A	N\A	1379659.11	480729.12	1348190.10	480758.51
003732	17-NOV-88	1041	N\A	N\A	1379798.68	480550.15	1348329.67	480579.54
003733	20-NOV-88	1039	N\A	N\A	1379659.11	480729.12	1348190.10	480758.51
003924	01-MAR-89	1041	N\A	N\A	1379798.68	480550.15	1348329.67	480579.54
003928	05-FEB-89	1039	N\A	N\A	1379659.11	480729.12	1348190.10	480758.51
111990	28-APR-93	1039	N\A	N\A	1379659.11	480729.12	1348190.10	480758.51
114617	11-MAY-93	1937	N\A	N\A	1379534.49	480645.51	1348065.48	480674.89
114626	01-JUN-93	1937	N\A	N\A	1379534.49	480645.51	1348065.48	480674.89
114782	01-JUN-93	1937	N\A	N\A	1379534.49	480645.51	1348065.48	480674.89
114784	11-JUN-93	1940	N\A	N\A	1379525.12	480457.72	1348056.11	480487.10
114785	11-JUN-93	1940	N\A	N\A	1379525.12	480457.72	1348056.11	480487.10
116220	05-MAY-93	1041	N\A	N\A	1379798.68	480550.15	1348329.67	480579.54
116221	05-MAY-93	1041	N\A	N\A	1379798.68	480550.15	1348329.67	480579.54

TABLE A.3-11

SAMPLE LIST - PERCHED GROUNDWATER
OUTSIDE BATTERY LIMITS
LIME SLUDGE PONDS

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
003182	11-MAY-88	1042	N\A	N\A	1379543.28	480388.77	1348074.28	480418.15
003416	09-AUG-88	1042	N\A	N\A	1379543.28	480388.77	1348074.28	480418.15
003723	17-NOV-88	1042	N\A	N\A	1379543.28	480388.77	1348074.28	480418.15
003922	01-MAR-89	1042	N\A	N\A	1379543.28	480388.77	1348074.28	480418.15
045426	18-OCT-89	1134	N\A	N\A	1379849.31	480745.16	1348380.29	480774.54
045427	18-OCT-89	1134	N\A	N\A	1379849.31	480745.16	1348380.29	480774.54
045428	31-JAN-90	1134	N\A	N\A	1379849.31	480745.16	1348380.29	480774.54
045738	22-OCT-89	1210	N\A	N\A	1379844.46	480485.42	1348375.44	480514.80
045739	22-OCT-89	1210	N\A	N\A	1379844.46	480485.42	1348375.44	480514.80
045740	02-JUL-90	1210	N\A	N\A	1379844.46	480485.42	1348375.44	480514.80
045780	23-OCT-89	1229	N\A	N\A	1379834.54	480262.59	1348365.53	480291.96
045781	23-OCT-89	1229	N\A	N\A	1379834.54	480262.59	1348365.53	480291.96
045782	30-JUN-90	1229	N\A	N\A	1379834.54	480262.59	1348365.53	480291.96
110889	22-APR-93	1042	N\A	N\A	1379543.28	480388.77	1348074.28	480418.15
114620	13-MAY-93	1934	N\A	N\A	1379744.81	480394.07	1348275.80	480423.45
114622	13-MAY-93	1934	N\A	N\A	1379744.81	480394.07	1348275.80	480423.45

000211

TABLE A.3-12
LIME SLUDGE PONDS - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114487	Arsenic	LSP-SS-06	9.5	mg/kg	J	9.5	100.00%
114477	Arsenic	LSP-SS-07	7.8	mg/kg	J	7.8	90.90%
114467	Arsenic	LSP-SS-03	7.5	mg/kg	J	7.5	81.81%
114514	Arsenic	LSP-SS-13	7.1	mg/kg	-	7.1	63.63%
114474	Arsenic	LSP-SS-04	7.1	mg/kg	J	7.1	63.63%
114498	Arsenic	LSP-SS-11	6.4	mg/kg	-	6.4	54.54%
114488	Arsenic	LSP-SS-08	6.3	mg/kg	J	6.3	45.45%
114501	Arsenic	LSP-SS-12	5.8	mg/kg	-	5.8	36.36%
114516	Arsenic	LSP-SS-14	5.7	mg/kg	-	5.7	27.27%
114485	Arsenic	LSP-SS-05	5.2	mg/kg	J	5.2	18.18%
114881	Arsenic	LSP-SS-10	4.3	mg/kg	J	4.3	9.09%
114598	Arsenic	LSP-SS-09	3.5	mg/kg	-	3.5	0.00%

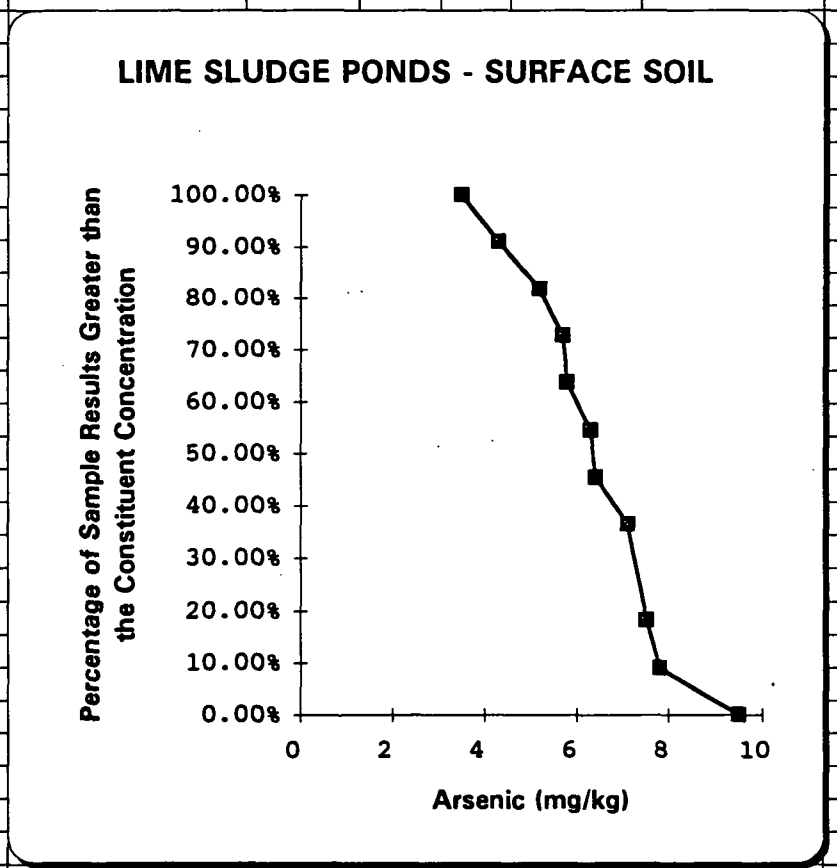


TABLE A.3-12
LIME SLUDGE PONDS - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114514	Cesium-137	LSP-SS-13	0.89	pci/g	-	0.89	100.00%
114516	Cesium-137	LSP-SS-14	0.543	pci/g	-	0.543	90.90%
114501	Cesium-137	LSP-SS-12	0.339	pci/g	-	0.339	81.81%
114488	Cesium-137	LSP-SS-08	0.28	pci/g	-	0.28	72.72%
114498	Cesium-137	LSP-SS-11	0.215	pci/g	-	0.215	63.63%
114467	Cesium-137	LSP-SS-03	0.21	pci/g	-	0.21	54.54%
114474	Cesium-137	LSP-SS-04	0.192	pci/g	J	0.192	45.45%
114485	Cesium-137	LSP-SS-05	0.145	pci/g	J	0.145	36.36%
114477	Cesium-137	LSP-SS-07	0.064	pci/g	J	0.064	27.27%
114598	Cesium-137	LSP-SS-09	0.09	pci/g	UJ	0.045	18.18%
114487	Cesium-137	LSP-SS-06	0.085	pci/g	UJ	0.0425	9.09%
114881	Cesium-137	LSP-SS-10	0.071	pci/g	UJ	0.0355	0.00%

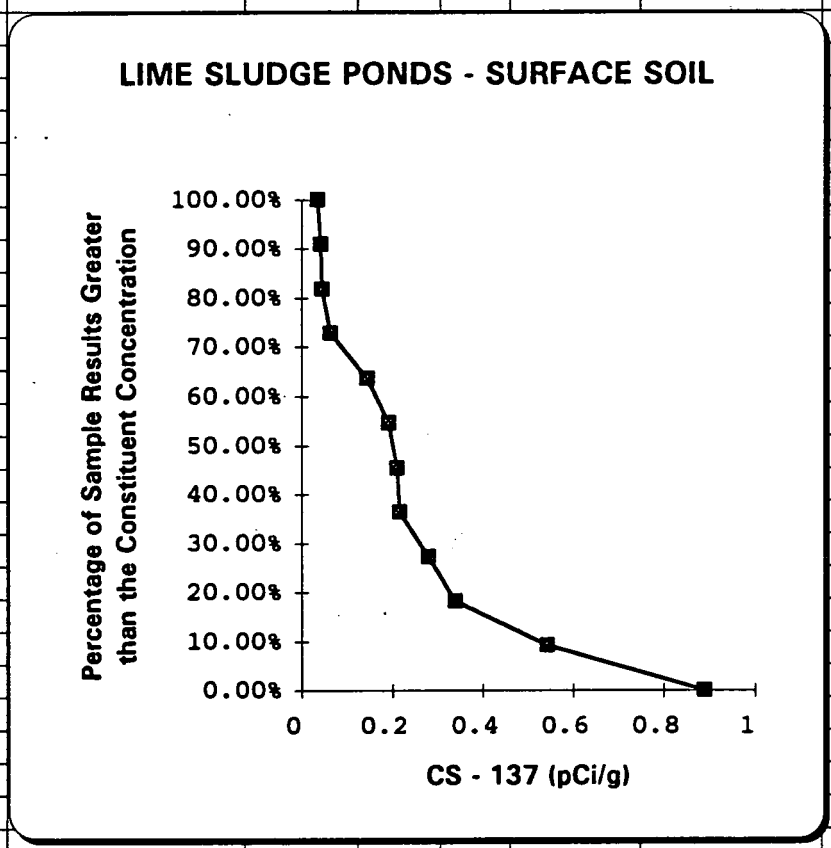


TABLE A.3-12
LIME SLUDGE PONDS - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114514	Neptunium-237	LSP-SS-13	0.72	pci/g	N	0.72	100.00%
114516	Neptunium-237	LSP-SS-14	0.676	pci/g	N	0.676	90.90%
114485	Neptunium-237	LSP-SS-05	0.59	pci/g	N	0.59	81.81%
114501	Neptunium-237	LSP-SS-12	0.284	pci/g	N	0.284	72.72%
114881	Neptunium-237	LSP-SS-10	0.161	pci/g	N	0.161	63.63%
114467	Neptunium-237	LSP-SS-03	0.16	pci/g	N	0.16	54.54%
114498	Neptunium-237	LSP-SS-11	0.143	pci/g	N	0.143	45.45%
114477	Neptunium-237	LSP-SS-07	0.096	pci/g	N	0.096	36.36%
114487	Neptunium-237	LSP-SS-06	0.05	pci/g	N	0.05	27.27%
114474	Neptunium-237	LSP-SS-04	0.041	pci/g	N	0.041	18.18%
114488	Neptunium-237	LSP-SS-08	0.04	pci/g	N	0.04	0.00%
114598	Neptunium-237	LSP-SS-09	0.04	pci/g	N	0.04	0.00%

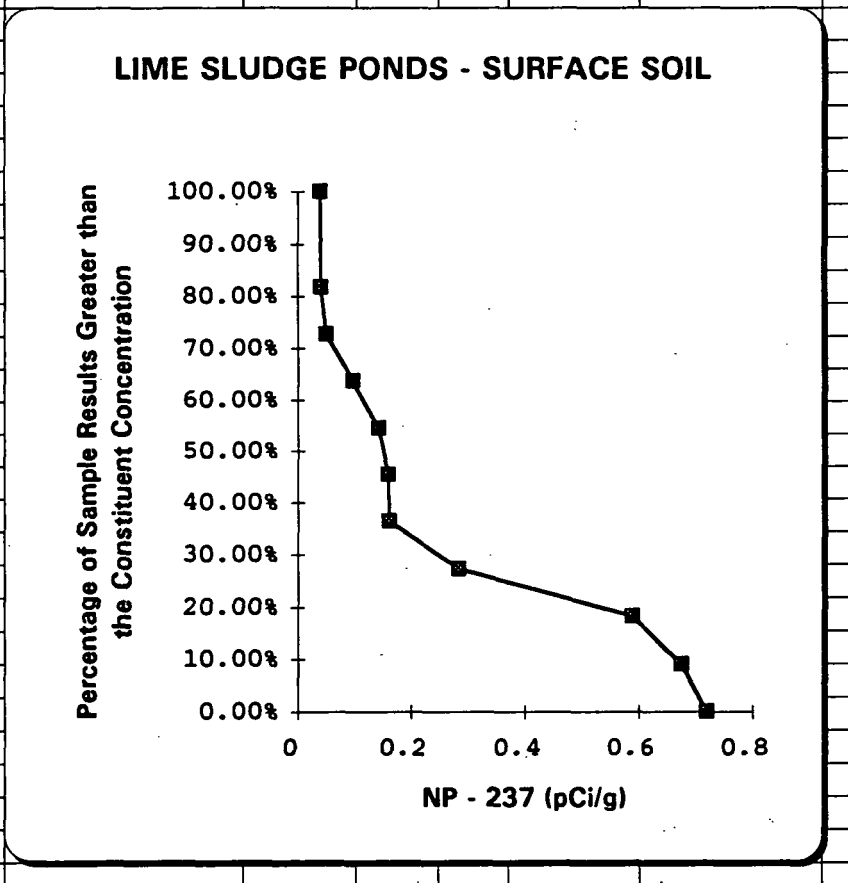


TABLE A.3-12
LIME SLUDGE PONDS - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114514	Radium-226	LSP-SS-13	3.47	pci/g	-	3.47	100.00%
114516	Radium-226	LSP-SS-14	3.16	pci/g	-	3.16	90.90%
114477	Radium-226	LSP-SS-07	2.45	pci/g	-	2.45	81.81%
114498	Radium-226	LSP-SS-11	1.47	pci/g	-	1.47	72.72%
114474	Radium-226	LSP-SS-04	1.23	pci/g	J	1.23	63.63%
114488	Radium-226	LSP-SS-08	1.17	pci/g	J	1.17	54.54%
114467	Radium-226	LSP-SS-03	1.08	pci/g	J	1.08	45.45%
114501	Radium-226	LSP-SS-12	1.05	pci/g	-	1.05	36.36%
114487	Radium-226	LSP-SS-06	0.392	pci/g	J	0.392	27.27%
114881	Radium-226	LSP-SS-10	0.205	pci/g	J	0.205	18.18%
114485	Radium-226	LSP-SS-05	0.21	pci/g	UJ	0.105	9.09%
114598	Radium-226	LSP-SS-09	0.2	pci/g	UJ	0.1	0.00%

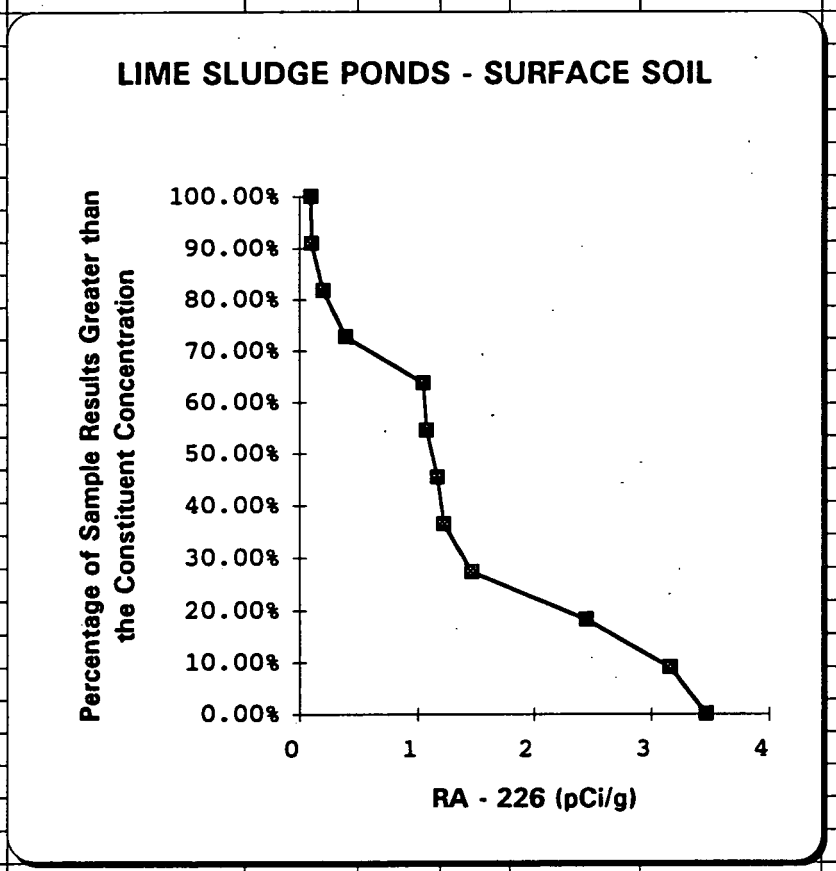


TABLE A.3-12
LIME SLUDGE PONDS - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114514	Radium-228	LSP-SS-13	2.92	pci/g	-	2.92	100.00%
114516	Radium-228	LSP-SS-14	2.85	pci/g	-	2.85	90.90%
114477	Radium-228	LSP-SS-07	1.47	pci/g	-	1.47	81.81%
114467	Radium-228	LSP-SS-03	1.42	pci/g	-	1.42	72.72%
114474	Radium-228	LSP-SS-04	1.35	pci/g	-	1.35	63.63%
114488	Radium-228	LSP-SS-08	1.11	pci/g	-	1.11	54.54%
114498	Radium-228	LSP-SS-11	1.07	pci/g	-	1.07	45.45%
114501	Radium-228	LSP-SS-12	0.709	pci/g	-	0.709	36.36%
114485	Radium-228	LSP-SS-05	0.46	pci/g	UJ	0.23	18.18%
114487	Radium-228	LSP-SS-06	0.46	pci/g	UJ	0.23	18.18%
114598	Radium-228	LSP-SS-09	0.42	pci/g	UJ	0.21	9.09%
114881	Radium-228	LSP-SS-10	0.36	pci/g	UJ	0.18	0.00%

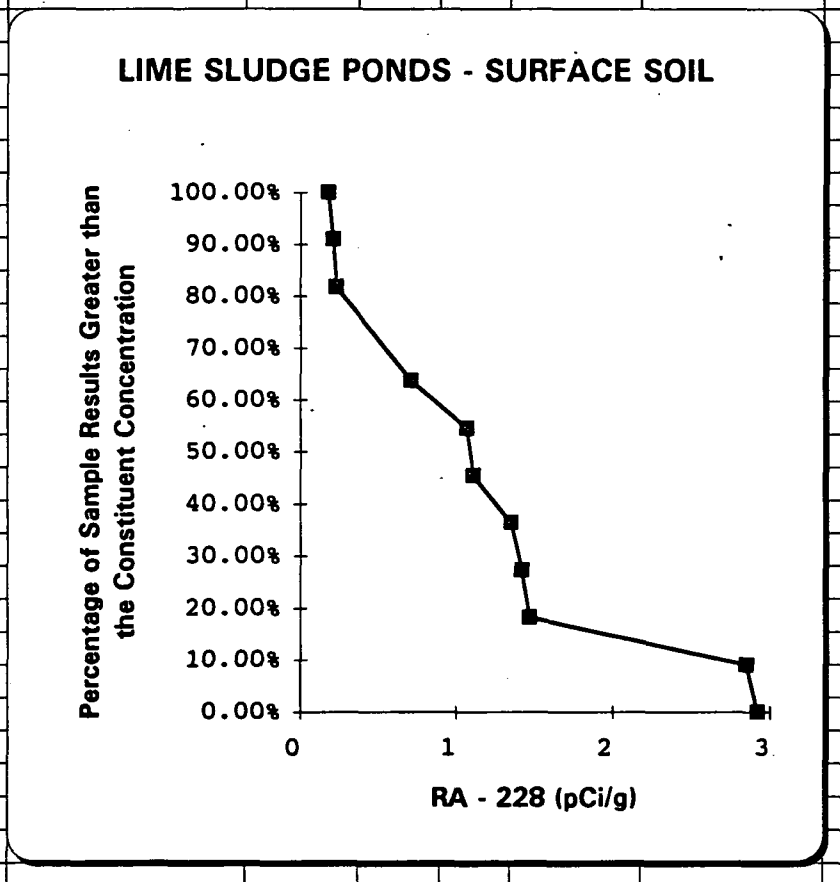


TABLE A.3-12
LIME SLUDGE PONDS - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114516	Strontium-90	LSP-SS-14	0.785	pci/g	J	0.785	100.00%
114498	Strontium-90	LSP-SS-11	0.508	pci/g	J	0.508	90.00%
114501	Strontium-90	LSP-SS-12	0.627	pci/g	UJ	0.3135	80.00%
114477	Strontium-90	LSP-SS-07	0.48	pci/g	UJ	0.24	70.00%
114485	Strontium-90	LSP-SS-05	0.458	pci/g	UJ	0.229	60.00%
114474	Strontium-90	LSP-SS-04	0.419	pci/g	UJ	0.2095	50.00%
114488	Strontium-90	LSP-SS-08	0.412	pci/g	UJ	0.206	40.00%
114487	Strontium-90	LSP-SS-06	0.352	pci/g	UJ	0.176	30.00%
114467	Strontium-90	LSP-SS-03	0.235	pci/g	UJ	0.1175	20.00%
114514	Strontium-90	LSP-SS-13	0.203	pci/g	UJ	0.1015	10.00%
114881	Strontium-90	LSP-SS-10	0.159	pci/g	UJ	0.0795	.00%

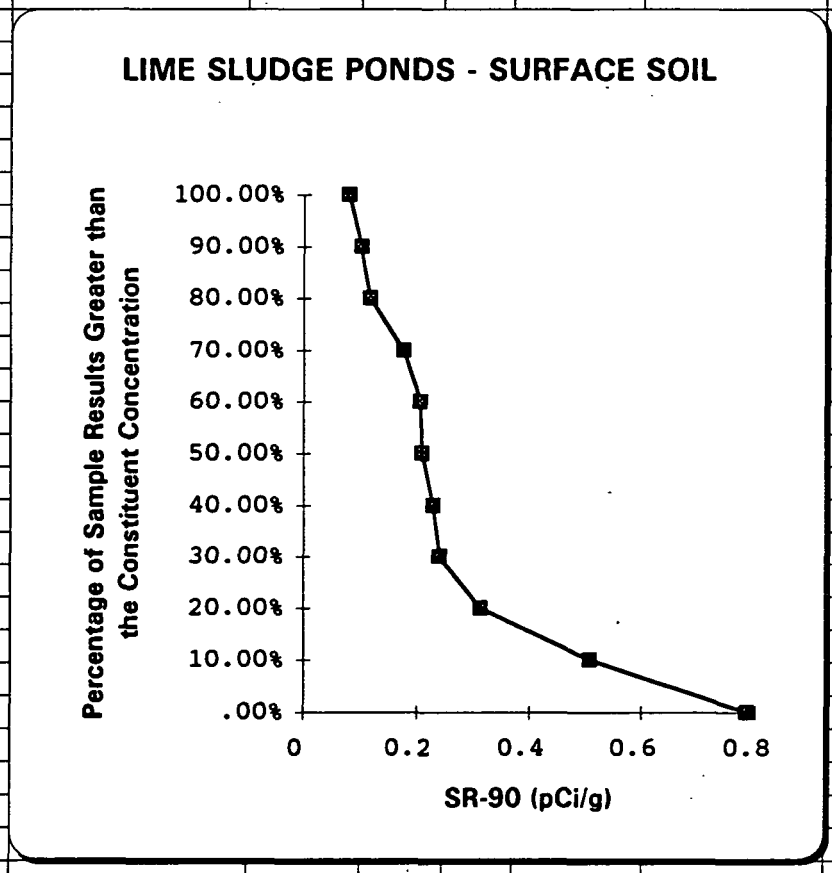


TABLE A.3-12
LIME SLUDGE PONDS - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114881	Technetium-99	LSP-SS-10	0.423	pci/g	UJ	0.2115	100.00%
114474	Technetium-99	LSP-SS-04	0.403	pci/g	UJ	0.2015	90.90%
114498	Technetium-99	LSP-SS-11	0.396	pci/g	UJ	0.198	81.81%
114477	Technetium-99	LSP-SS-07	0.39	pci/g	UJ	0.195	63.63%
114514	Technetium-99	LSP-SS-13	0.39	pci/g	UJ	0.195	63.63%
114598	Technetium-99	LSP-SS-09	0.38	pci/g	UJ	0.19	54.54%
114485	Technetium-99	LSP-SS-05	0.372	pci/g	UJ	0.186	45.45%
114516	Technetium-99	LSP-SS-14	0.37	pci/g	UJ	0.185	36.36%
114501	Technetium-99	LSP-SS-12	0.369	pci/g	UJ	0.1845	27.27%
114487	Technetium-99	LSP-SS-06	0.352	pci/g	UJ	0.176	18.18%
114488	Technetium-99	LSP-SS-08	0.347	pci/g	UJ	0.1735	9.09%
114467	Technetium-99	LSP-SS-03	0.342	pci/g	UJ	0.171	0.00%

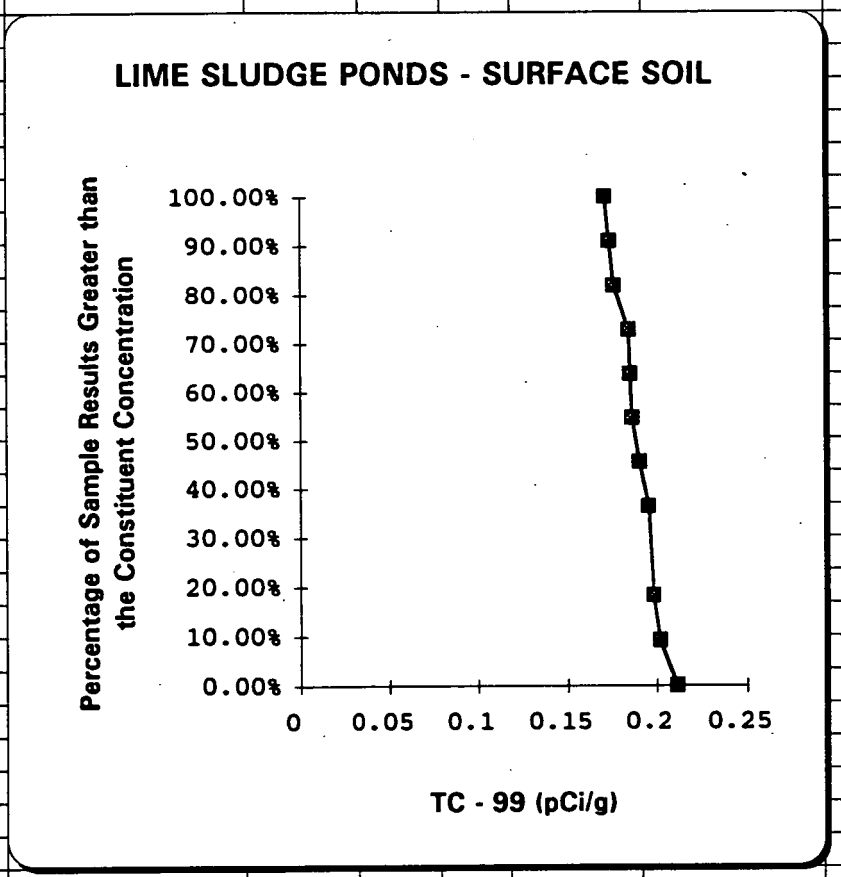


TABLE A.3-12
LIME SLUDGE PONDS - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114514	Thorium-228	LSP-SS-13	2.91	pci/g	J	2.91	100.00%
114516	Thorium-228	LSP-SS-14	2.58	pci/g	J	2.58	90.00%
114488	Thorium-228	LSP-SS-08	1.06	pci/g	-	1.06	80.00%
114474	Thorium-228	LSP-SS-04	0.98	pci/g	-	0.98	70.00%
114467	Thorium-228	LSP-SS-03	0.95	pci/g	-	0.95	60.00%
114477	Thorium-228	LSP-SS-07	0.936	pci/g	-	0.936	50.00%
114498	Thorium-228	LSP-SS-11	0.935	pci/g	J	0.935	40.00%
114501	Thorium-228	LSP-SS-12	0.865	pci/g	J	0.865	30.00%
114487	Thorium-228	LSP-SS-06	0.23	pci/g	J	0.23	20.00%
114485	Thorium-228	LSP-SS-05	0.31	pci/g	UJ	0.155	10.00%
114881	Thorium-228	LSP-SS-10	0.082	pci/g	J	0.082	0.00%

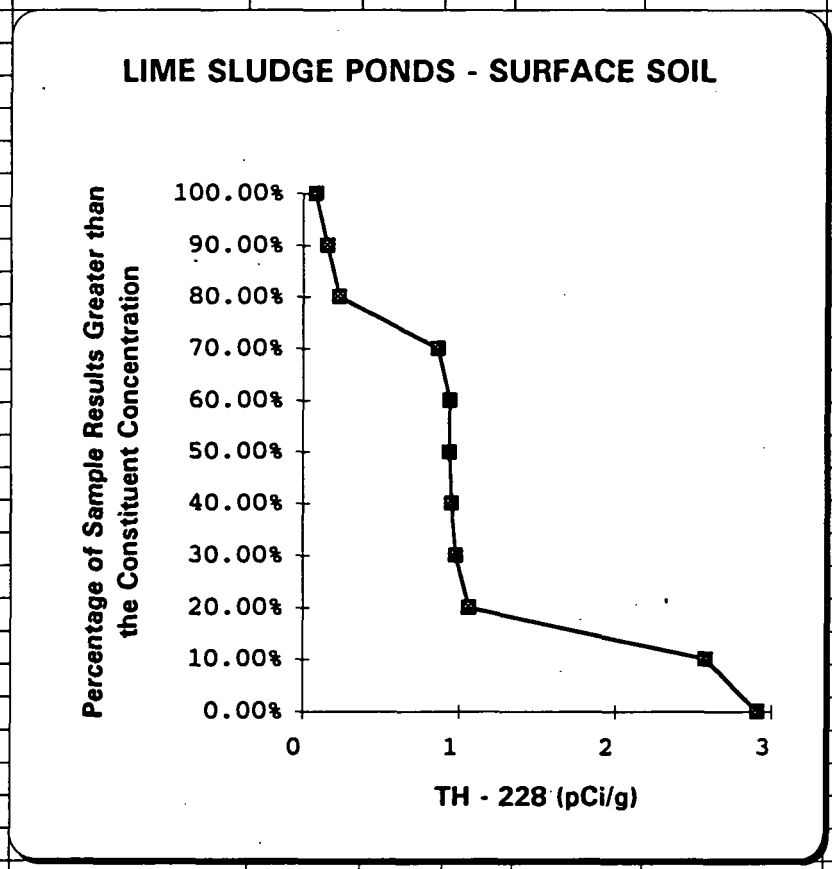


TABLE A.3-12
LIME SLUDGE PONDS - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114477	Thorium-230	LSP-SS-07	44.8	pci/g	-	44.8	90.00%
114514	Thorium-230	LSP-SS-13	44.8	pci/g	J	44.8	90.00%
114516	Thorium-230	LSP-SS-14	40.9	pci/g	J	40.9	80.00%
114501	Thorium-230	LSP-SS-12	6.01	pci/g	J	6.01	70.00%
114498	Thorium-230	LSP-SS-11	3.59	pci/g	J	3.59	60.00%
114474	Thorium-230	LSP-SS-04	3	pci/g	-	3	50.00%
114467	Thorium-230	LSP-SS-03	2.64	pci/g	-	2.64	40.00%
114488	Thorium-230	LSP-SS-08	2.4	pci/g	-	2.4	30.00%
114485	Thorium-230	LSP-SS-05	2	pci/g	-	2	20.00%
114487	Thorium-230	LSP-SS-06	0.89	pci/g	-	0.89	10.00%
114881	Thorium-230	LSP-SS-10	0.373	pci/g	J	0.373	0.00%

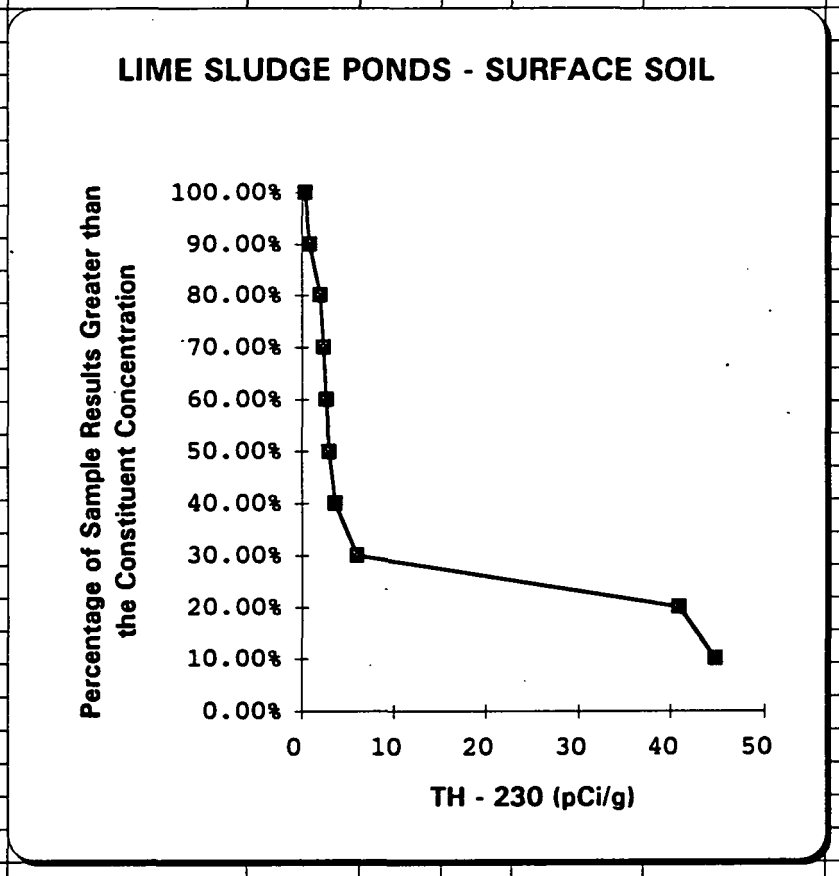


TABLE A.3-12
LIME SLUDGE PONDS - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114514	Thorium-232	LSP-SS-13	2.75	pci/g	J	2.75	100.00%
114467	Thorium-232	LSP-SS-03	1.13	pci/g	-	1.13	88.88%
114474	Thorium-232	LSP-SS-04	1.01	pci/g	-	1.01	77.77%
114477	Thorium-232	LSP-SS-07	0.93	pci/g	-	0.93	66.66%
114488	Thorium-232	LSP-SS-08	0.87	pci/g	-	0.87	55.55%
114498	Thorium-232	LSP-SS-11	0.841	pci/g	J	0.841	44.44%
114501	Thorium-232	LSP-SS-12	0.693	pci/g	J	0.693	33.33%
114487	Thorium-232	LSP-SS-06	0.22	pci/g	J	0.22	22.22%
114485	Thorium-232	LSP-SS-05	0.224	pci/g	UJ	0.112	11.11%
114881	Thorium-232	LSP-SS-10	0.037	pci/g	J	0.037	0.00%

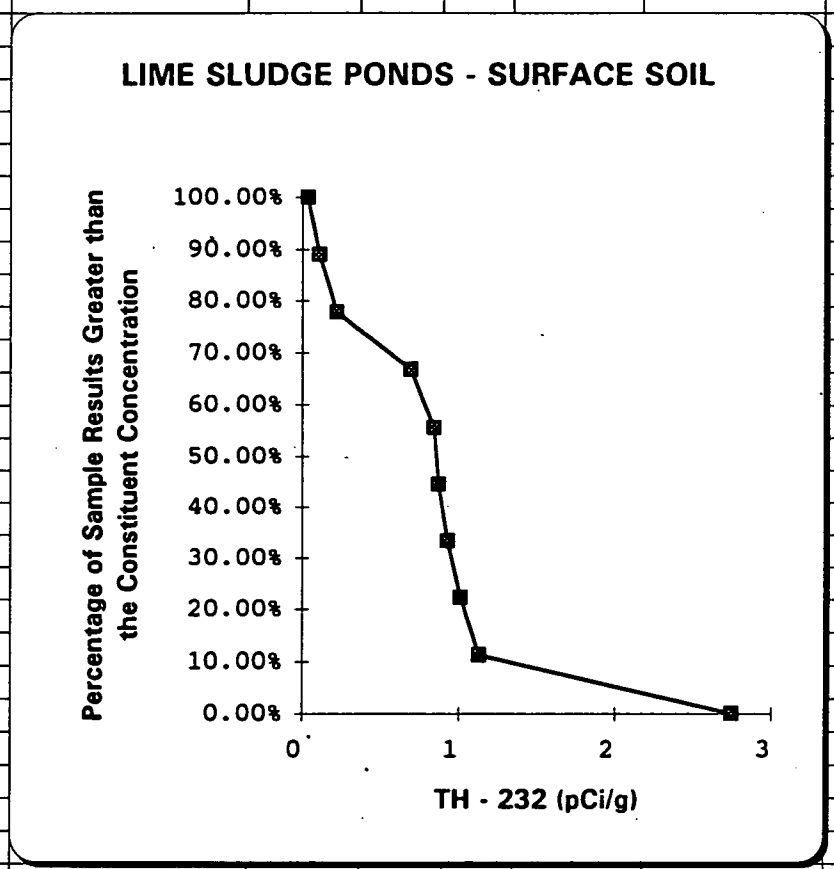


TABLE A.3-12
LIME SLUDGE PONDS - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114516	Uranium, Total	LSP-SS-14	244	mg/kg	-	244	100.00%
114514	Uranium, Total	LSP-SS-13	175	mg/kg	-	175	90.90%
114467	Uranium, Total	LSP-SS-03	35.8	mg/kg	-	35.8	81.81%
114498	Uranium, Total	LSP-SS-11	29	mg/kg	-	29	72.72%
114474	Uranium, Total	LSP-SS-04	28.9	mg/kg	-	28.9	63.63%
114488	Uranium, Total	LSP-SS-08	27	mg/kg	-	27	54.54%
114501	Uranium, Total	LSP-SS-12	25.7	mg/kg	-	25.7	45.45%
114485	Uranium, Total	LSP-SS-05	20.5	mg/kg	-	20.5	36.36%
114477	Uranium, Total	LSP-SS-07	14.5	mg/kg	-	14.5	27.27%
114487	Uranium, Total	LSP-SS-06	14.3	mg/kg	J	14.3	18.18%
114598	Uranium, Total	LSP-SS-09	4.26	mg/kg	J	4.26	9.09%
114881	Uranium, Total	LSP-SS-10	2.45	mg/kg	J	2.45	0.00%

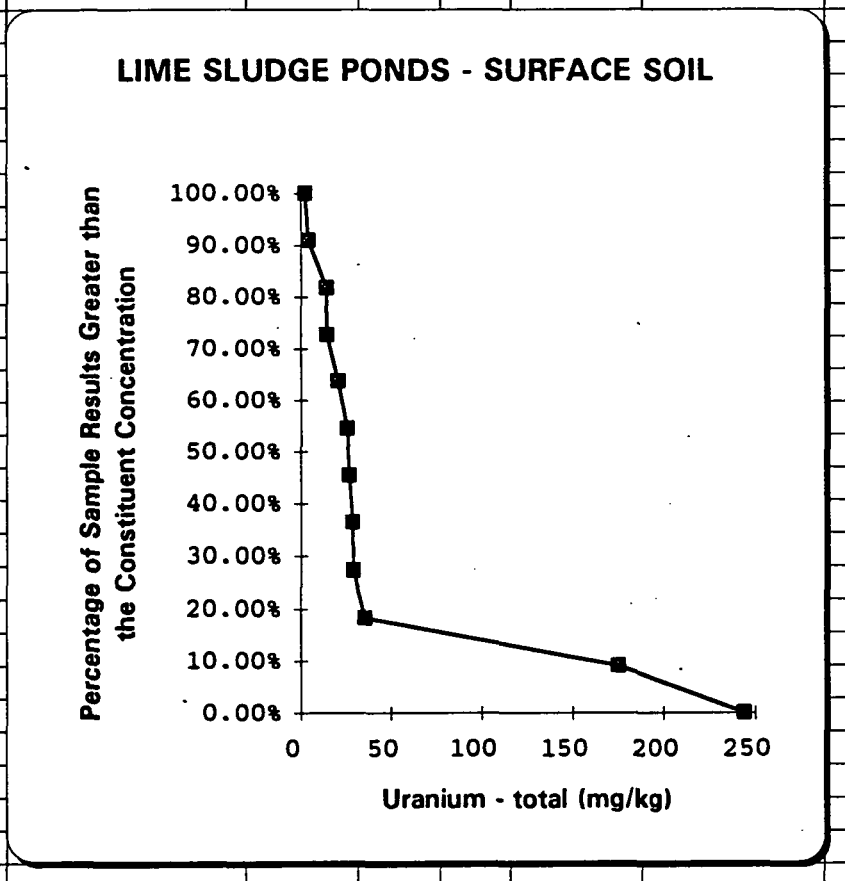


TABLE A.3-12
LIME SLUDGE PONDS - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114516	Uranium-234	LSP-SS-14	26.5	pci/g	J	26.5	100.00%
114514	Uranium-234	LSP-SS-13	22.7	pci/g	J	22.7	90.90%
114467	Uranium-234	LSP-SS-03	8	pci/g	J	8	81.81%
114501	Uranium-234	LSP-SS-12	7.87	pci/g	J	7.87	72.72%
114498	Uranium-234	LSP-SS-11	7.71	pci/g	J	7.71	63.63%
114485	Uranium-234	LSP-SS-05	6.09	pci/g	J	6.09	54.54%
114488	Uranium-234	LSP-SS-08	5.9	pci/g	J	5.9	45.45%
114474	Uranium-234	LSP-SS-04	5.58	pci/g	J	5.58	36.36%
114477	Uranium-234	LSP-SS-07	4.07	pci/g	-	4.07	27.27%
114487	Uranium-234	LSP-SS-06	2.44	pci/g	J	2.44	18.18%
114598	Uranium-234	LSP-SS-09	1.17	pci/g	J	1.17	9.09%
114881	Uranium-234	LSP-SS-10	1.08	pci/g	-	1.08	0.00%

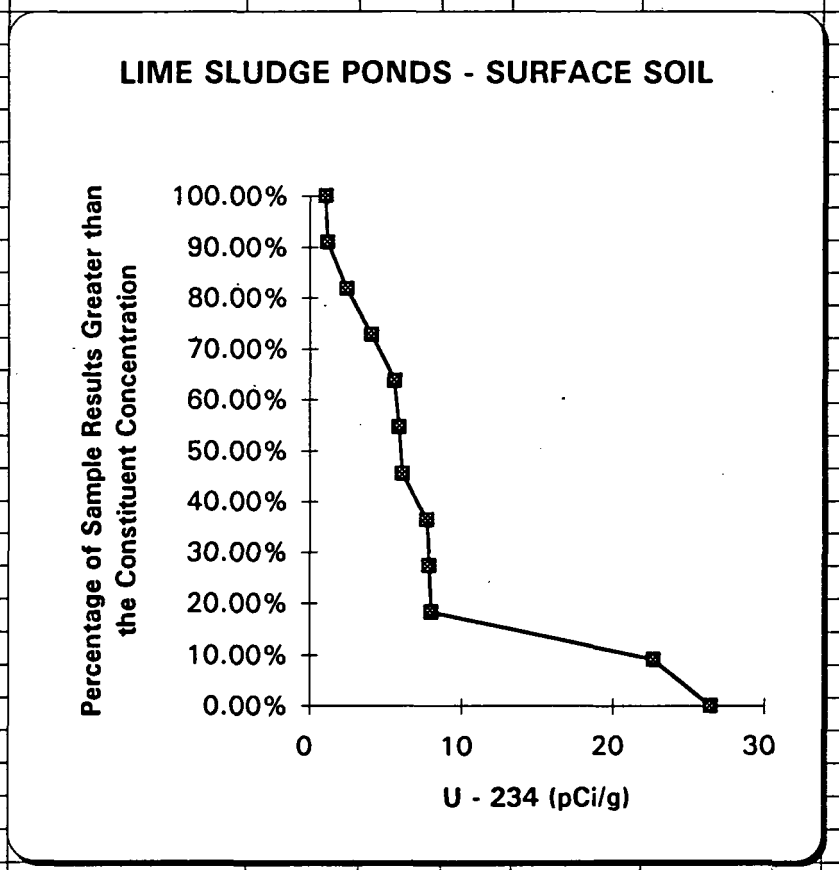


TABLE A.3-12
LIME SLUDGE PONDS - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114516	Uranium-235/236	LSP-SS-14	1.83	pci/g	J	1.83	100.00%
114514	Uranium-235/236	LSP-SS-13	1.45	pci/g	J	1.45	90.90%
114488	Uranium-235/236	LSP-SS-08	0.42	pci/g	J	0.42	81.81%
114467	Uranium-235/236	LSP-SS-03	0.414	pci/g	J	0.414	72.72%
114498	Uranium-235/236	LSP-SS-11	0.377	pci/g	J	0.377	63.63%
114501	Uranium-235/236	LSP-SS-12	0.348	pci/g	J	0.348	54.54%
114485	Uranium-235/236	LSP-SS-05	0.335	pci/g	J	0.335	45.45%
114474	Uranium-235/236	LSP-SS-04	0.29	pci/g	J	0.29	36.36%
114477	Uranium-235/236	LSP-SS-07	0.18	pci/g	J	0.18	27.27%
114487	Uranium-235/236	LSP-SS-06	0.103	pci/g	J	0.103	18.18%
114598	Uranium-235/236	LSP-SS-09	0.09	pci/g	J	0.09	9.09%
114881	Uranium-235/236	LSP-SS-10	0.025	pci/g	J	0.025	0.00%

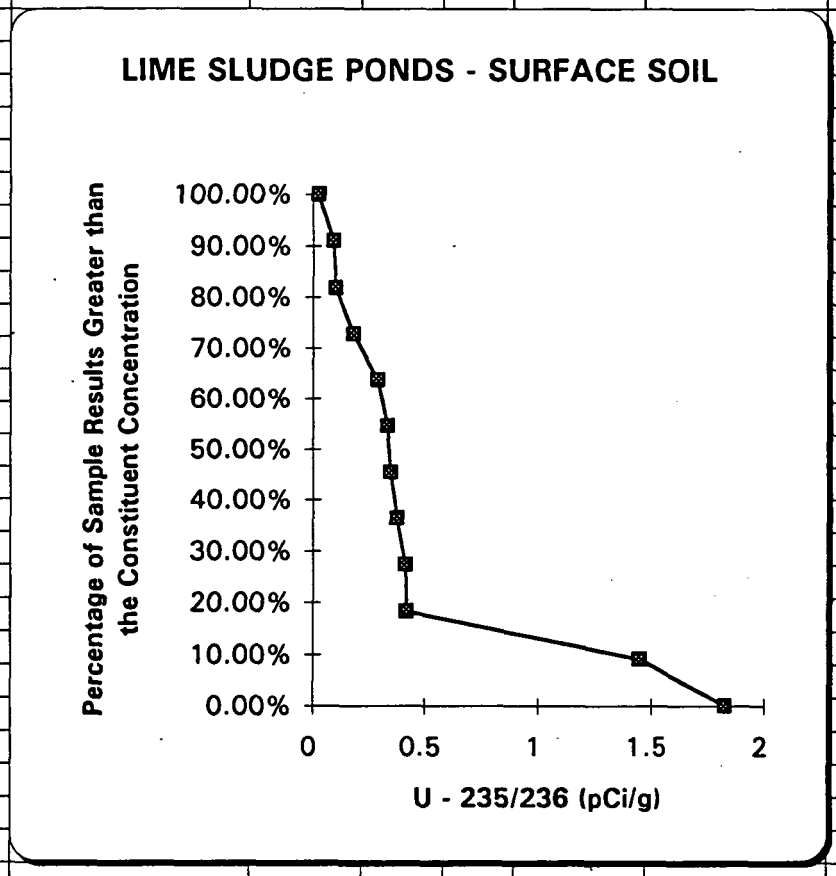


TABLE A.3-12
LIME SLUDGE PONDS - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114516	Uranium-238	LSP-SS-14	84	pci/g	J	84	100.00%
114514	Uranium-238	LSP-SS-13	56.4	pci/g	J	56.4	90.90%
114501	Uranium-238	LSP-SS-12	9.54	pci/g	J	9.54	81.81%
114498	Uranium-238	LSP-SS-11	9.38	pci/g	J	9.38	72.72%
114467	Uranium-238	LSP-SS-03	8.49	pci/g	J	8.49	63.63%
114488	Uranium-238	LSP-SS-08	6.69	pci/g	J	6.69	54.54%
114485	Uranium-238	LSP-SS-05	6.67	pci/g	J	6.67	45.45%
114474	Uranium-238	LSP-SS-04	6.54	pci/g	J	6.54	36.36%
114477	Uranium-238	LSP-SS-07	4.64	pci/g	-	4.64	27.27%
114487	Uranium-238	LSP-SS-06	2.12	pci/g	J	2.12	18.18%
114598	Uranium-238	LSP-SS-09	1.24	pci/g	J	1.24	9.09%
114881	Uranium-238	LSP-SS-10	0.856	pci/g	-	0.856	0.00%

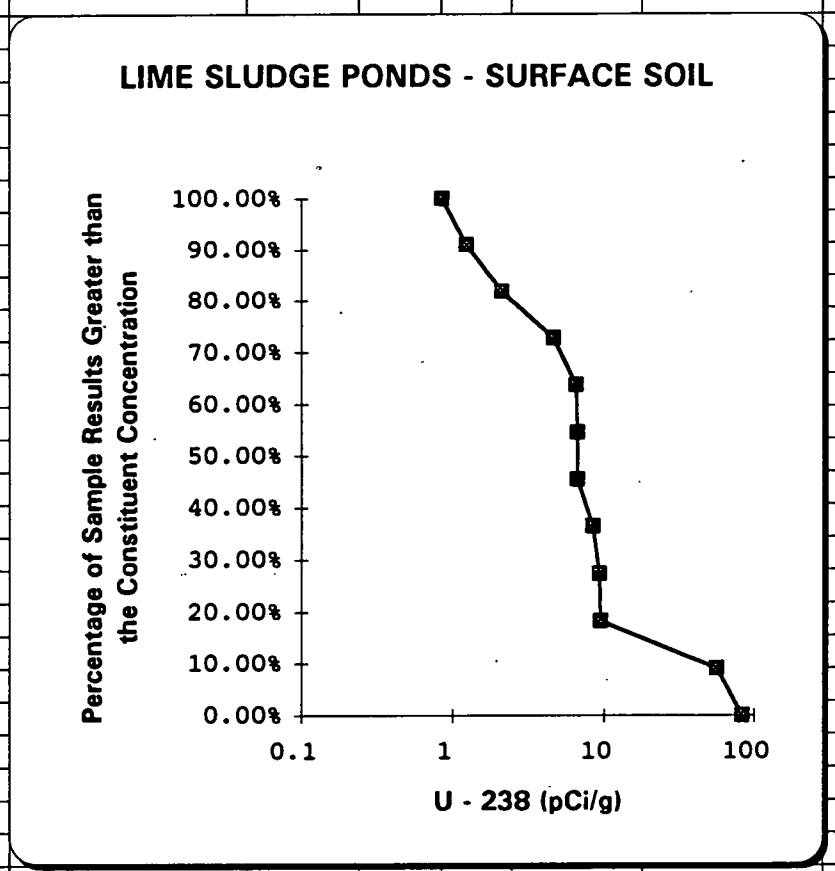


TABLE A.3-13
LIME SLUDGE PONDS - SLUDGE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114857	Arsenic	1956	11.2	mg/kg	J	11.2	100.00%
114487	Arsenic	LSP-SS-06	9.5	mg/kg	J	9.5	92.85%
114821	Arsenic	1958	8.4	mg/kg	-	8.4	85.71%
114812	Arsenic	1959	6.1	mg/kg	J	6.1	78.57%
114835	Arsenic	1957	6	mg/kg	-	6	71.42%
114564	Arsenic	LSP-SB-01	5.8	mg/kg	-	5.8	64.28%
114485	Arsenic	LSP-SS-05	5.2	mg/kg	J	5.2	57.14%
114881	Arsenic	LSP-SS-10	4.3	mg/kg	J	4.3	50.00%
067904	Arsenic	LIME	4.2	mg/kg	J	4.2	42.85%
114745	Arsenic	1961	4	mg/kg	J	4	35.71%
114598	Arsenic	LSP-SS-09	3.5	mg/kg	-	3.5	28.57%
114605	Arsenic	1962	2.6	mg/kg	J	2.6	21.42%
114762	Arsenic	1963	2.5	mg/kg	-	2.5	14.28%
114734	Arsenic	1960	2.1	mg/kg	J	2.1	7.14%
067902	Arsenic	LIME	1.7	mg/kg	-	1.7	0.00%

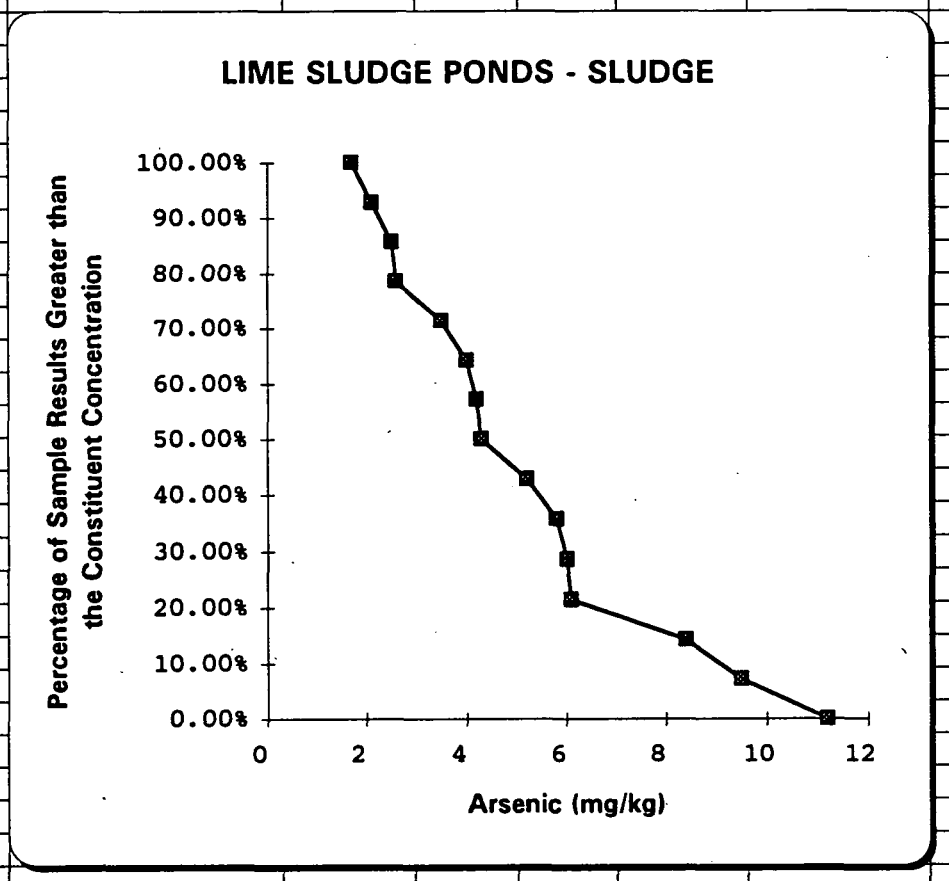


TABLE A.3-13
LIME SLUDGE PONDS - SLUDGE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114485	Cesium-137	LSP-SS-05	0.145	pci/g	J	0.145	100.00%
067902	Cesium-137	LIME	0.2	pci/g	U	0.1	85.71%
067904	Cesium-137	LIME	0.2	pci/g	U	0.1	85.71%
114857	Cesium-137	1956	0.088	pci/g	J	0.088	78.57%
114835	Cesium-137	1957	0.06	pci/g	J	0.06	71.42%
114564	Cesium-137	LSP-SB-01	0.1	pci/g	UJ	0.05	57.14%
114745	Cesium-137	1961	0.1	pci/g	UJ	0.05	57.14%
114821	Cesium-137	1958	0.091	pci/g	UJ	0.0455	50.00%
114598	Cesium-137	LSP-SS-09	0.09	pci/g	UJ	0.045	42.85%
114487	Cesium-137	LSP-SS-06	0.085	pci/g	UJ	0.0425	35.71%
114762	Cesium-137	1963	0.08	pci/g	UJ	0.04	28.57%
114881	Cesium-137	LSP-SS-10	0.071	pci/g	UJ	0.0355	21.42%
114812	Cesium-137	1959	0.068	pci/g	UJ	0.034	14.28%
114605	Cesium-137	1962	0.029	pci/g	J	0.029	7.14%
114734	Cesium-137	1960	0.0058	pci/g	UJ	0.0029	0.00%

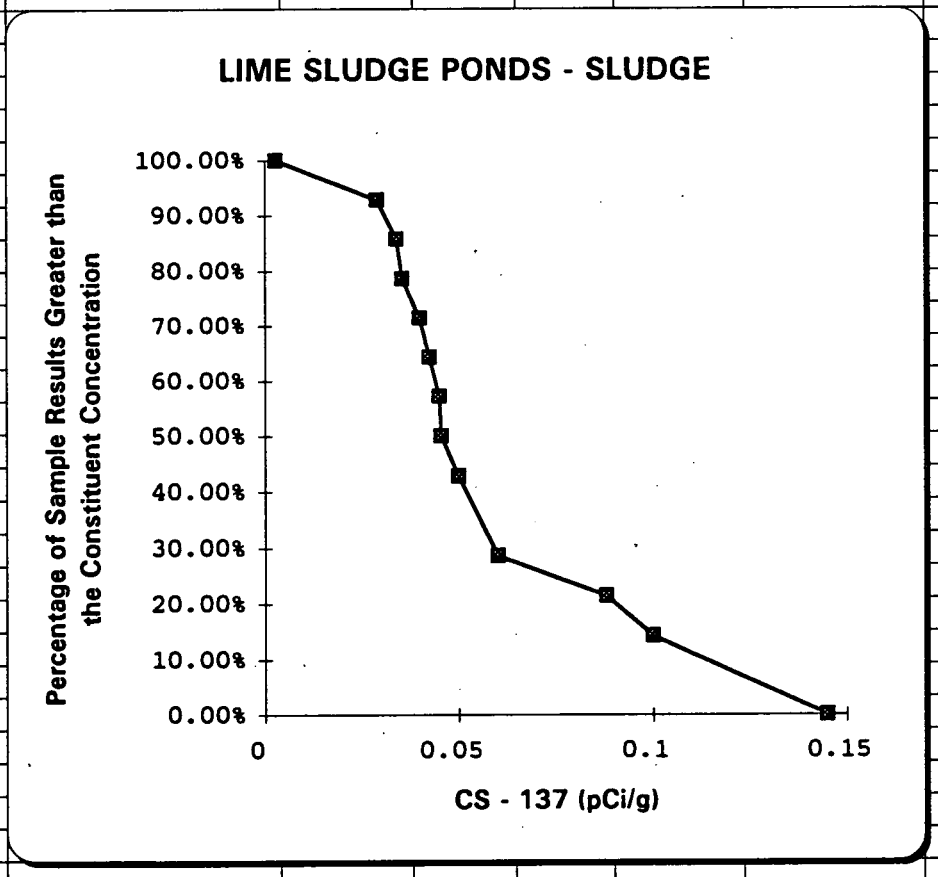


TABLE A.3-13
LIME SLUDGE PONDS - SLUDGE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114485	Neptunium-237	LSP-SS-05	0.59	pci/g	N	0.59	100.00%
114881	Neptunium-237	LSP-SS-10	0.161	pci/g	N	0.161	83.33%
114835	Neptunium-237	1957	0.13	pci/g	N	0.13	66.66%
114564	Neptunium-237	LSP-SB-01	0.11	pci/g	N	0.11	50.00%
114857	Neptunium-237	1956	0.086	pci/g	N	0.086	33.33%
114487	Neptunium-237	LSP-SS-06	0.05	pci/g	N	0.05	16.66%
114598	Neptunium-237	LSP-SS-09	0.04	pci/g	N	0.04	0.00%

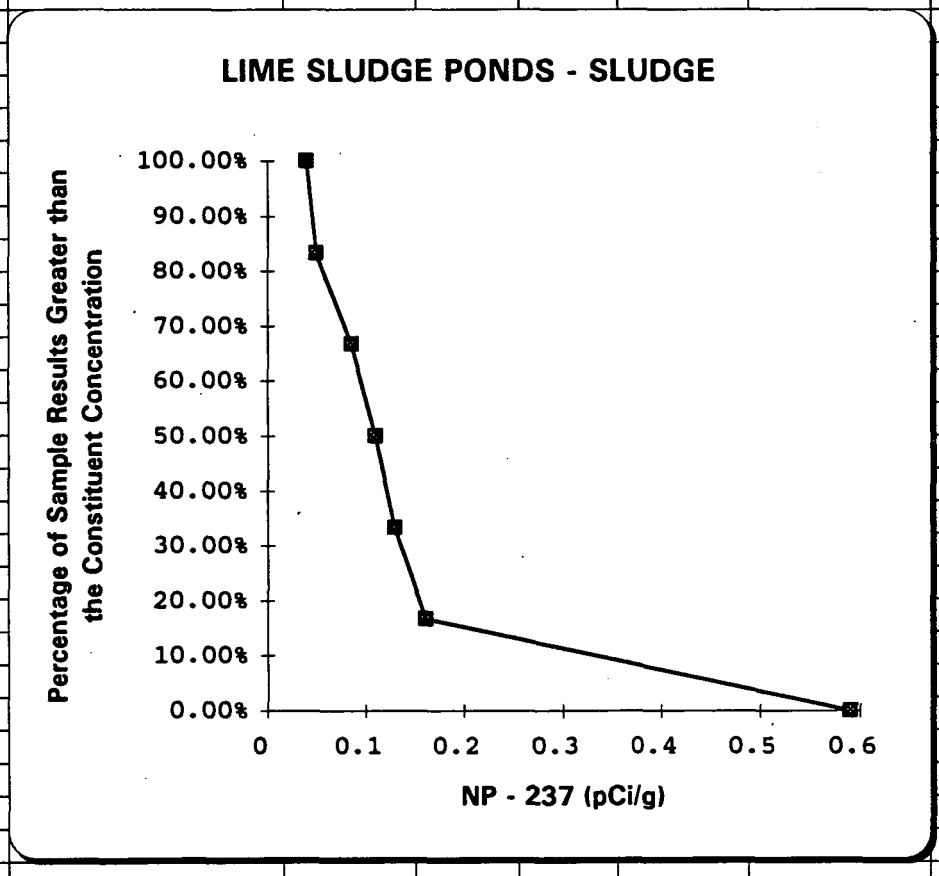


TABLE A.3-13
LIME SLUDGE PONDS - SLUDGE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114564	Radium-226	LSP-SB-01	1.05	pci/g	-	1.05	100.00%
114835	Radium-226	1957	0.88	pci/g	-	0.88	92.85%
114857	Radium-226	1956	0.67	pci/g	-	0.67	85.71%
114745	Radium-226	1961	0.57	pci/g	-	0.57	78.57%
114812	Radium-226	1959	0.536	pci/g	-	0.536	71.42%
114605	Radium-226	1962	0.456	pci/g	-	0.456	64.28%
114821	Radium-226	1958	0.408	pci/g	-	0.408	57.14%
114734	Radium-226	1960	0.395	pci/g	-	0.395	50.00%
114487	Radium-226	LSP-SS-06	0.392	pci/g	J	0.392	42.85%
114762	Radium-226	1963	0.37	pci/g	J	0.37	35.71%
067902	Radium-226	LIME	0.35	pci/g	J	0.35	28.57%
114881	Radium-226	LSP-SS-10	0.205	pci/g	J	0.205	21.42%
067904	Radium-226	LIME	0.3	pci/g	U	0.15	14.28%
114485	Radium-226	LSP-SS-05	0.21	pci/g	UJ	0.105	7.14%
114598	Radium-226	LSP-SS-09	0.2	pci/g	UJ	0.1	0.00%

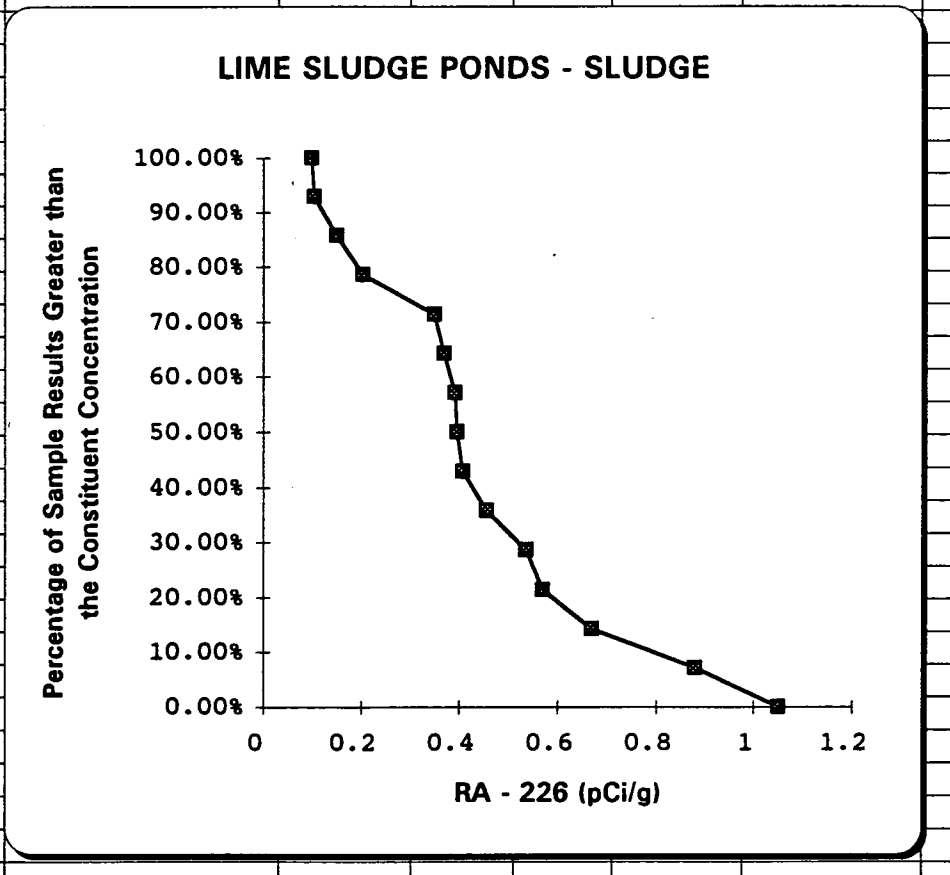


TABLE A.3-13
LIME SLUDGE PONDS - SLUDGE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114857	Radium-228	1956	0.78	pci/g	-	0.78	100.00%
114564	Radium-228	LSP-SB-01	0.66	pci/g	J	0.66	92.85%
114835	Radium-228	1957	0.59	pci/g	-	0.59	85.71%
067902	Radium-228	LIME	0.5	pci/g	U	0.25	64.28%
067904	Radium-228	LIME	0.5	pci/g	U	0.25	64.28%
114605	Radium-228	1962	0.5	pci/g	UJ	0.25	64.28%
114745	Radium-228	1961	0.49	pci/g	UJ	0.245	57.14%
114485	Radium-228	LSP-SS-05	0.46	pci/g	UJ	0.23	35.71%
114487	Radium-228	LSP-SS-06	0.46	pci/g	UJ	0.23	35.71%
114812	Radium-228	1959	0.46	pci/g	UJ	0.23	35.71%
114821	Radium-228	1958	0.458	pci/g	UJ	0.229	28.57%
114598	Radium-228	LSP-SS-09	0.42	pci/g	UJ	0.21	21.42%
114762	Radium-228	1963	0.4	pci/g	UJ	0.2	14.28%
114734	Radium-228	1960	0.362	pci/g	UJ	0.181	7.14%
114881	Radium-228	LSP-SS-10	0.36	pci/g	UJ	0.18	0.00%

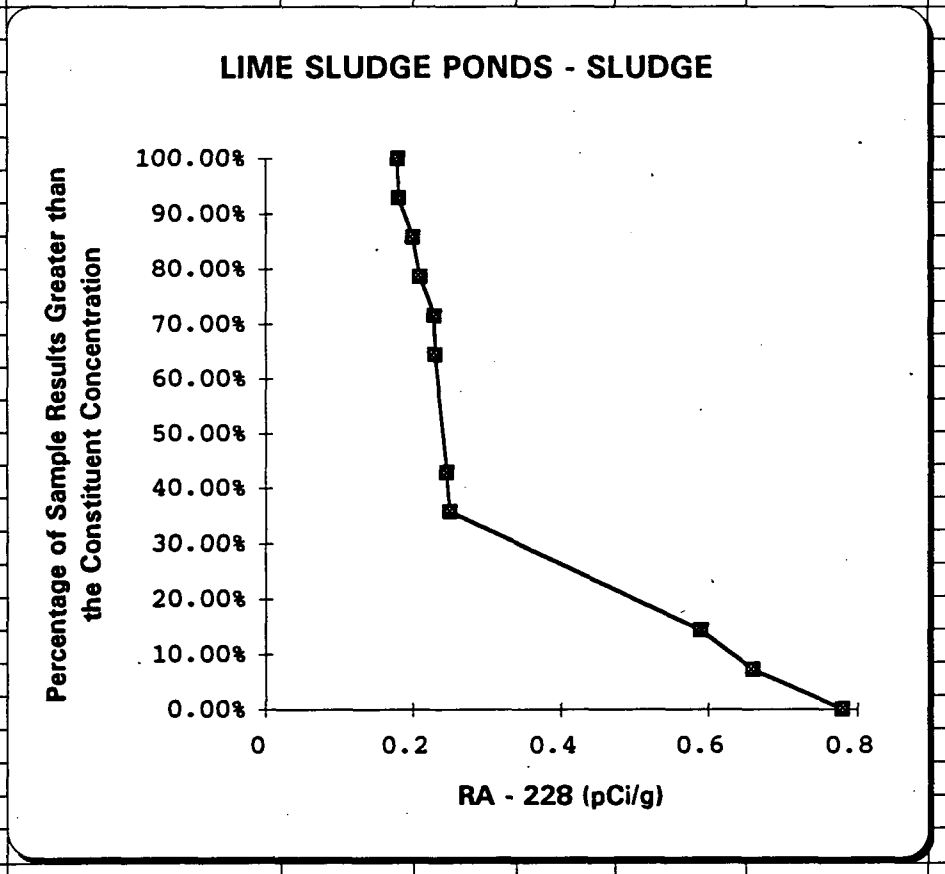


TABLE A.3-13
LIME SLUDGE PONDS - SLUDGE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
67902	Strontium-90	LIME	0.5	pci/g	U	0.25	92.30%
67904	Strontium-90	LIME	0.5	pci/g	U	0.25	92.30%
114485	Strontium-90	LSP-SS-05	0.458	pci/g	UJ	0.229	84.60%
114564	Strontium-90	LSP-SB-01	0.4	pci/g	UJ	0.2	76.90%
114487	Strontium-90	LSP-SS-06	0.352	pci/g	UJ	0.176	69.20%
114821	Strontium-90	1958	0.182	pci/g	UJ	0.091	61.50%
114734	Strontium-90	1960	0.176	pci/g	UJ	0.088	53.80%
114605	Strontium-90	1962	0.174	pci/g	UJ	0.087	46.10%
114762	Strontium-90	1963	0.17	pci/g	UJ	0.085	38.40%
114812	Strontium-90	1959	0.167	pci/g	UJ	0.0835	30.70%
114745	Strontium-90	1961	0.16	pci/g	UJ	0.08	23.00%
114881	Strontium-90	LSP-SS-10	0.159	pci/g	UJ	0.0795	15.30%
114835	Strontium-90	1957	0.15	pci/g	UJ	0.075	7.60%
114857	Strontium-90	1956	0.13	pci/g	UJ	0.065	.00%

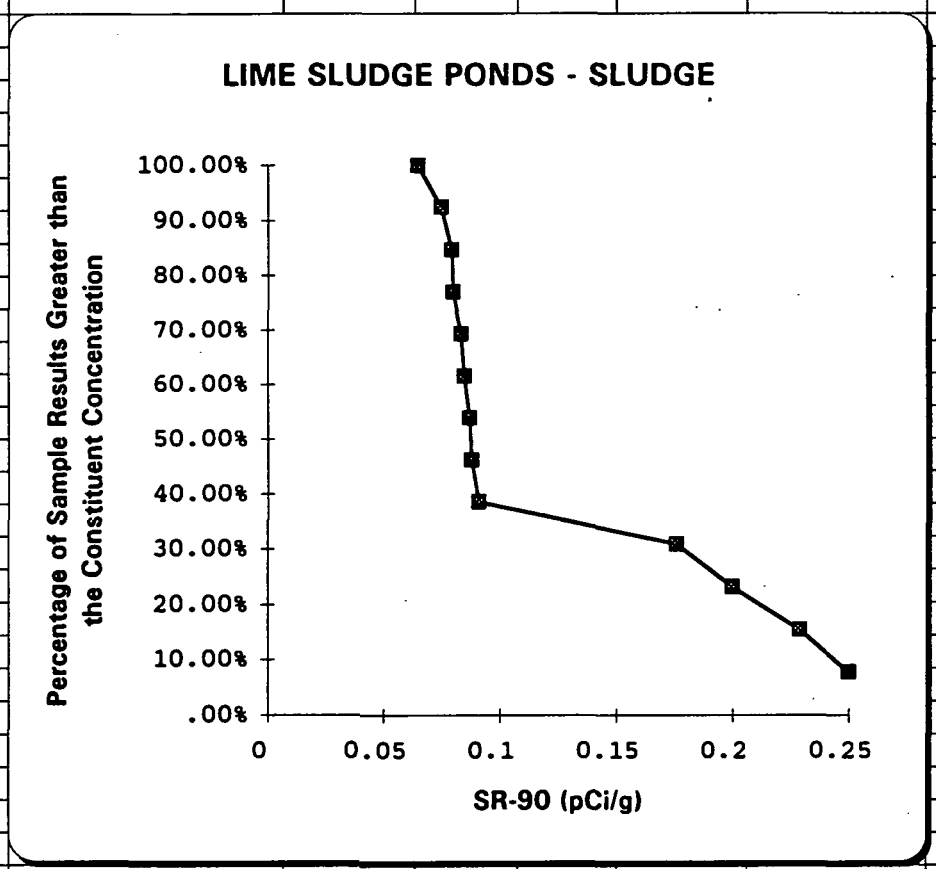


TABLE A.3-13
LIME SLUDGE PONDS - SLUDGE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114857	Technetium-99	1956	0.89	pci/g	J	0.89	100.00%
114821	Technetium-99	1958	0.647	pci/g	UJ	0.3235	91.66%
114812	Technetium-99	1959	0.597	pci/g	UJ	0.2985	83.33%
114745	Technetium-99	1961	0.59	pci/g	UJ	0.295	75.00%
114762	Technetium-99	1963	0.57	pci/g	UJ	0.285	66.66%
114881	Technetium-99	LSP-SS-10	0.423	pci/g	UJ	0.2115	58.33%
114835	Technetium-99	1957	0.39	pci/g	UJ	0.195	50.00%
114598	Technetium-99	LSP-SS-09	0.38	pci/g	UJ	0.19	41.66%
114485	Technetium-99	LSP-SS-05	0.372	pci/g	UJ	0.186	33.33%
114487	Technetium-99	LSP-SS-06	0.352	pci/g	UJ	0.176	16.66%
114734	Technetium-99	1960	0.352	pci/g	UJ	0.176	16.66%
114564	Technetium-99	LSP-SB-01	0.35	pci/g	UJ	0.175	8.33%
114605	Technetium-99	1962	0.05	pci/g	UJ	0.025	0.00%

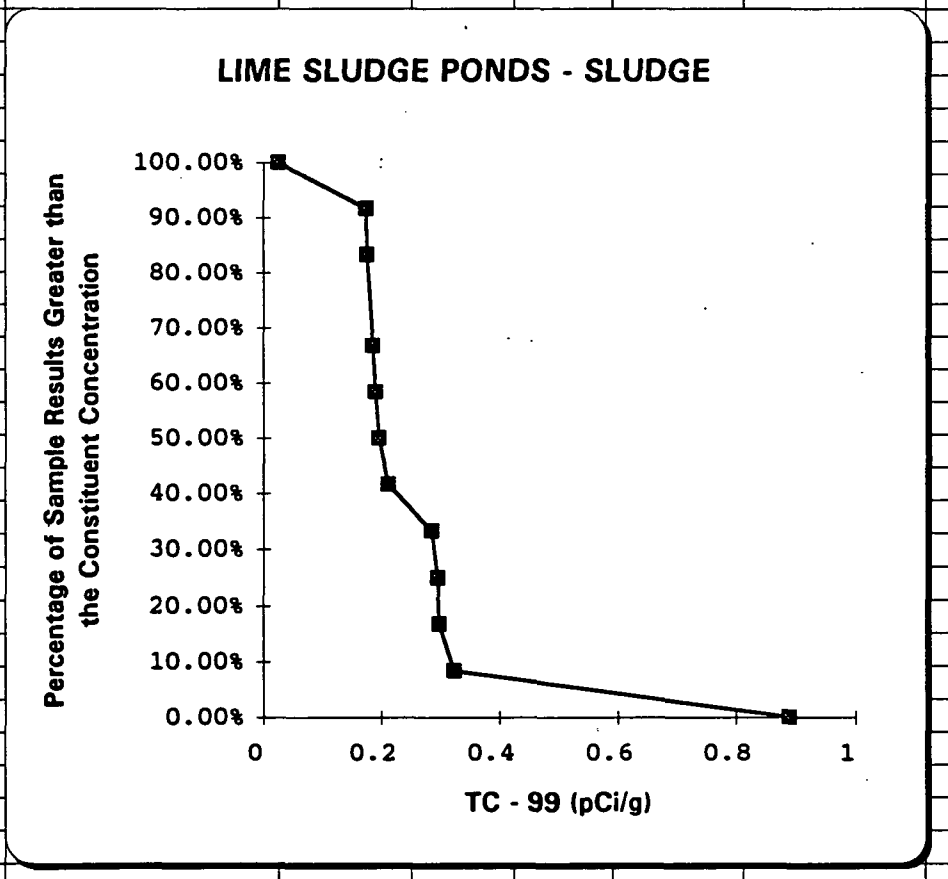


TABLE A.3-13
LIME SLUDGE PONDS - SLUDGE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067902	Thorium-228	LIME	1.46	pci/g	J	1.46	100.00%
067904	Thorium-228	LIME	1.04	pci/g	J	1.04	91.66%
114835	Thorium-228	1957	0.599	pci/g	U	0.2995	83.33%
114745	Thorium-228	1961	0.26	pci/g	J	0.26	75.00%
114487	Thorium-228	LSP-SS-06	0.23	pci/g	J	0.23	66.66%
114812	Thorium-228	1959	0.228	pci/g	J	0.228	58.33%
114857	Thorium-228	1956	0.31	pci/g	U	0.155	41.66%
114485	Thorium-228	LSP-SS-05	0.31	pci/g	UJ	0.155	41.66%
114821	Thorium-228	1958	0.13	pci/g	J	0.13	33.33%
114734	Thorium-228	1960	0.111	pci/g	J	0.111	25.00%
114762	Thorium-228	1963	0.11	pci/g	J	0.11	16.66%
114881	Thorium-228	LSP-SS-10	0.082	pci/g	J	0.082	8.33%
114605	Thorium-228	1962	0.113	pci/g	UJ	0.0565	0.00%

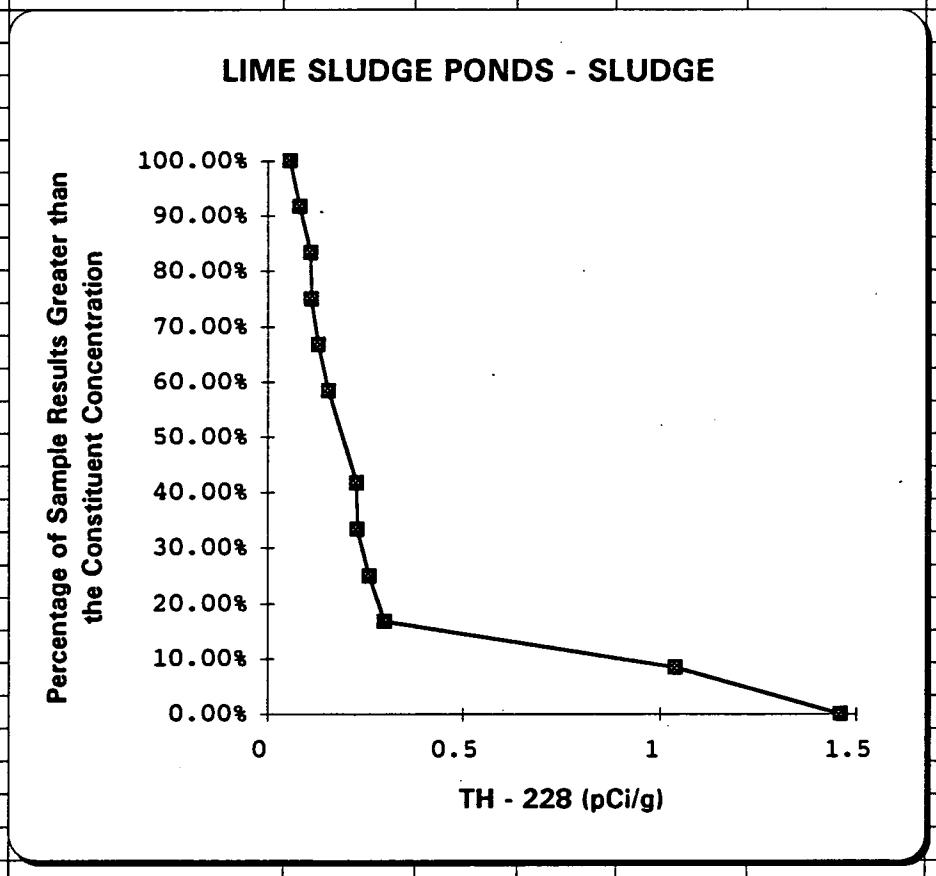


TABLE A.3-13
LIME SLUDGE PONDS - SLUDGE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114605	Thorium-230	1962	3.06	pci/g	-	3.06	100.00%
114745	Thorium-230	1961	2.7	pci/g	J	2.7	91.66%
114485	Thorium-230	LSP-SS-05	2	pci/g	-	2	83.33%
114734	Thorium-230	1960	1.88	pci/g	-	1.88	75.00%
114835	Thorium-230	1957	1.37	pci/g	J	1.37	66.66%
114857	Thorium-230	1956	1.09	pci/g	J	1.09	58.33%
114487	Thorium-230	LSP-SS-06	0.89	pci/g	-	0.89	50.00%
067902	Thorium-230	LIME	1.2	pci/g	UJ	0.6	41.66%
114762	Thorium-230	1963	0.48	pci/g	J	0.48	33.33%
114812	Thorium-230	1959	0.405	pci/g	J	0.405	25.00%
114881	Thorium-230	LSP-SS-10	0.373	pci/g	J	0.373	16.66%
067904	Thorium-230	LIME	0.6	pci/g	UJ	0.3	8.33%
114821	Thorium-230	1958	0.294	pci/g	J	0.294	0.00%

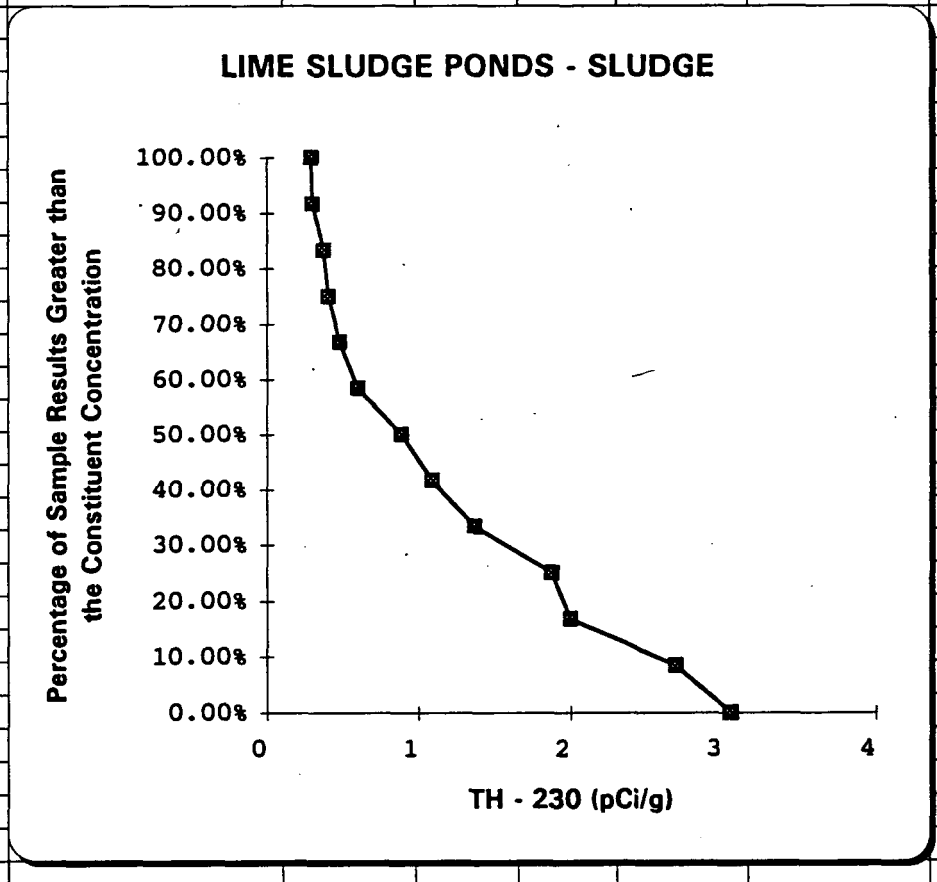


TABLE A.3-13
LIME SLUDGE PONDS - SLUDGE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114835	Thorium-232	1957	0.53	pci/g	J	0.53	100.00%
067902	Thorium-232	LIME	0.6	pci/g	U	0.3	83.33%
067904	Thorium-232	LIME	0.6	pci/g	U	0.3	83.33%
114745	Thorium-232	1961	0.23	pci/g	J	0.23	75.00%
114487	Thorium-232	LSP-SS-06	0.22	pci/g	J	0.22	66.66%
114605	Thorium-232	1962	0.146	pci/g	J	0.146	58.33%
114857	Thorium-232	1956	0.25	pci/g	U	0.125	50.00%
114812	Thorium-232	1959	0.112	pci/g	J	0.112	33.33%
114485	Thorium-232	LSP-SS-05	0.224	pci/g	UJ	0.112	33.33%
114762	Thorium-232	1963	0.11	pci/g	J	0.11	25.00%
114734	Thorium-232	1960	0.082	pci/g	J	0.082	16.66%
114821	Thorium-232	1958	0.06	pci/g	J	0.06	8.33%
114881	Thorium-232	LSP-SS-10	0.037	pci/g	J	0.037	0.00%

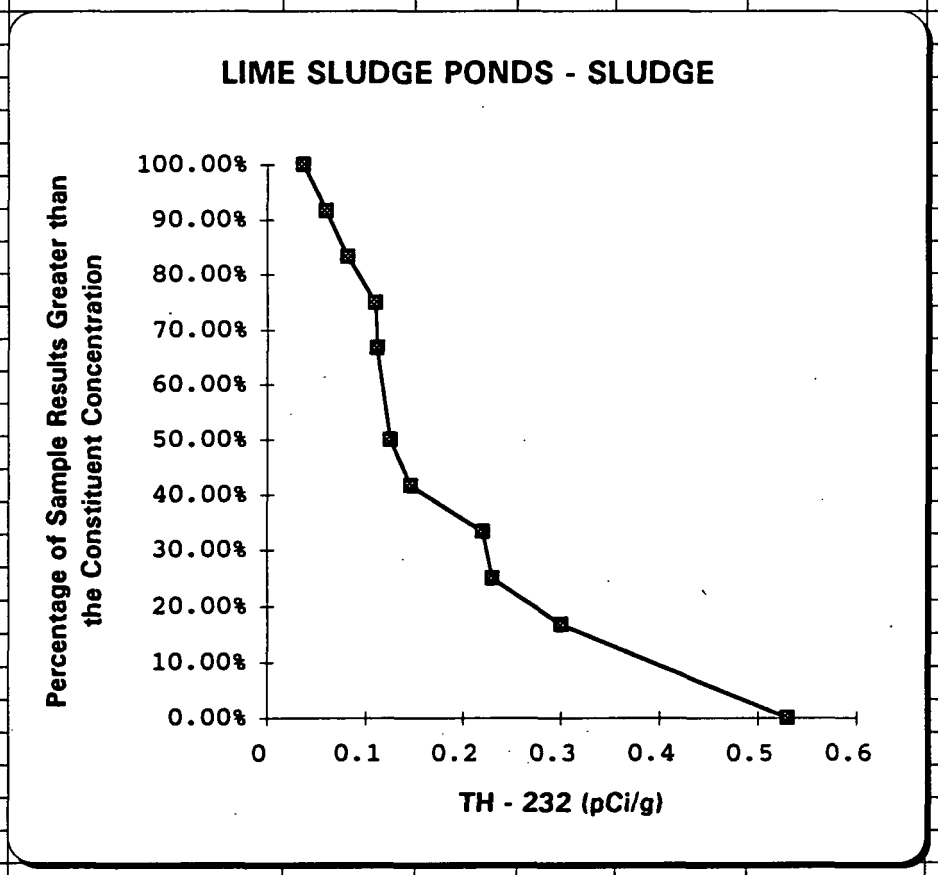


TABLE A.3-13
LIME SLUDGE PONDS - SLUDGE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114485	Uranium, Total	LSP-SS-05	20.5	mg/kg	-	20.5	100.00%
114857	Uranium, Total	1956	16.8	mg/kg	J	16.8	92.85%
114812	Uranium, Total	1959	15	mg/kg	-	15	85.71%
114487	Uranium, Total	LSP-SS-06	14.3	mg/kg	J	14.3	78.57%
114821	Uranium, Total	1958	14	mg/kg	-	14	71.42%
114745	Uranium, Total	1961	13.5	mg/kg	-	13.5	64.28%
114762	Uranium, Total	1963	10.6	mg/kg	-	10.6	57.14%
114835	Uranium, Total	1957	9.73	mg/kg	-	9.73	50.00%
114564	Uranium, Total	LSP-SB-01	6.91	mg/kg	-	6.91	42.85%
114605	Uranium, Total	1962	6.76	mg/kg	-	6.76	35.71%
067904	Uranium, Total	LIME	5.49	mg/kg	-	5.49	28.57%
114598	Uranium, Total	LSP-SS-09	4.26	mg/kg	J	4.26	21.42%
114734	Uranium, Total	1960	3.72	mg/kg	-	3.72	14.28%
114881	Uranium, Total	LSP-SS-10	2.45	mg/kg	J	2.45	7.14%
067902	Uranium, Total	LIME	2.08	mg/kg	J	2.08	0.00%

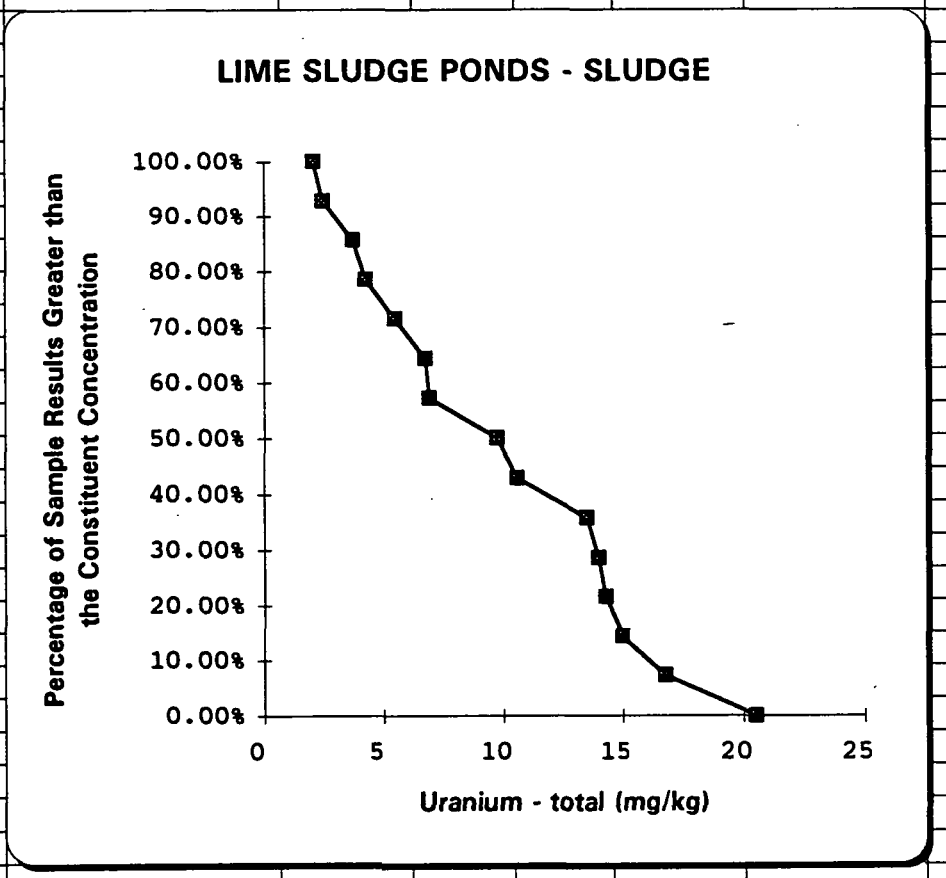


TABLE A.3-13
LIME SLUDGE PONDS - SLUDGE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114485	Uranium-234	LSP-SS-05	6.09	pci/g	J	6.09	100.00%
114857	Uranium-234	1956	3.37	pci/g	J	3.37	92.85%
114605	Uranium-234	1962	3.31	pci/g	-	3.31	85.71%
114812	Uranium-234	1959	2.55	pci/g	-	2.55	78.57%
114835	Uranium-234	1957	2.44	pci/g	-	2.44	64.28%
114487	Uranium-234	LSP-SS-06	2.44	pci/g	J	2.44	64.28%
114821	Uranium-234	1958	1.91	pci/g	-	1.91	57.14%
114745	Uranium-234	1961	1.85	pci/g	-	1.85	50.00%
114564	Uranium-234	LSP-SB-01	1.6	pci/g	-	1.6	42.85%
067904	Uranium-234	LIME	1.57	pci/g	J	1.57	35.71%
114734	Uranium-234	1960	1.47	pci/g	-	1.47	28.57%
114598	Uranium-234	LSP-SS-09	1.17	pci/g	J	1.17	21.42%
114881	Uranium-234	LSP-SS-10	1.08	pci/g	-	1.08	14.28%
114762	Uranium-234	1963	0.9	pci/g	-	0.9	7.14%
067902	Uranium-234	LIME	0.866	pci/g	J	0.866	0.00%

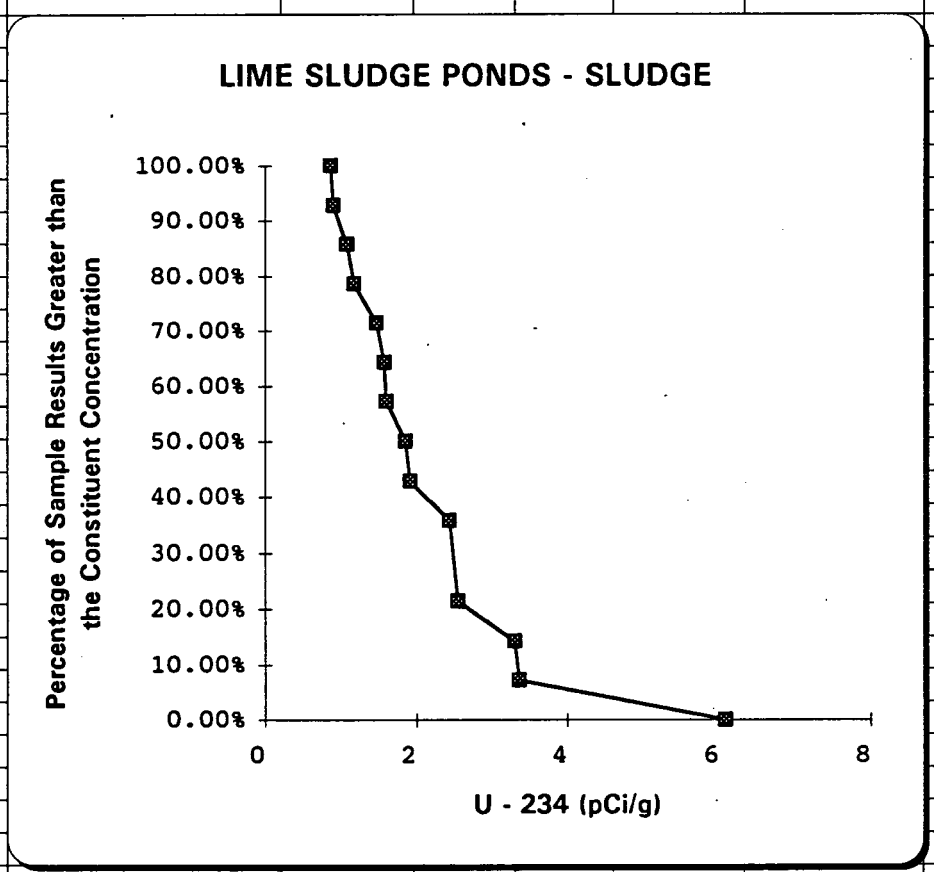
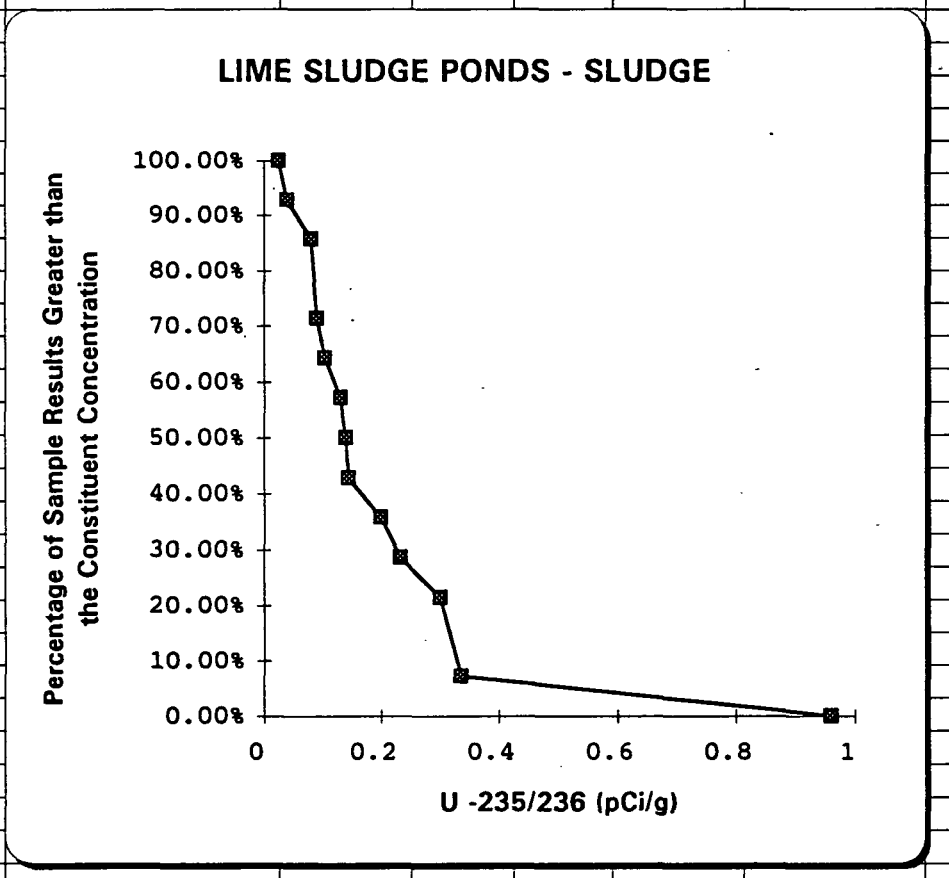


TABLE A.3-13
LIME SLUDGE PONDS - SLUDGE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114745	Uranium-235/236	1961	0.96	pci/g	-	0.96	100.00%
114485	Uranium-235/236	LSP-SS-05	0.335	pci/g	J	0.335	92.85%
067902	Uranium-235/236	LIME	0.6	pci/g	UJ	0.3	78.57%
067904	Uranium-235/236	LIME	0.6	pci/g	UJ	0.3	78.57%
114605	Uranium-235/236	1962	0.233	pci/g	J	0.233	71.42%
114812	Uranium-235/236	1959	0.199	pci/g	J	0.199	64.28%
114821	Uranium-235/236	1958	0.144	pci/g	J	0.144	57.14%
114857	Uranium-235/236	1956	0.14	pci/g	J	0.14	50.00%
114835	Uranium-235/236	1957	0.13	pci/g	J	0.13	42.85%
114487	Uranium-235/236	LSP-SS-06	0.103	pci/g	J	0.103	35.71%
114598	Uranium-235/236	LSP-SS-09	0.09	pci/g	J	0.09	28.57%
114564	Uranium-235/236	LSP-SB-01	0.08	pci/g	J	0.08	14.28%
114762	Uranium-235/236	1963	0.08	pci/g	J	0.08	14.28%
114734	Uranium-235/236	1960	0.039	pci/g	J	0.039	7.14%
114881	Uranium-235/236	LSP-SS-10	0.025	pci/g	J	0.025	0.00%



SLUDGE.XLS\8/6/94\2:56 PM

TABLE A.3-13
LIME SLUDGE PONDS - SLUDGE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114485	Uranium-238	LSP-SS-05	6.67	pci/g	J	6.67	100.00%
114605	Uranium-238	1962	3.33	pci/g	J	3.33	92.85%
114857	Uranium-238	1956	3.17	pci/g	J	3.17	85.71%
114835	Uranium-238	1957	2.84	pci/g	-	2.84	78.57%
114812	Uranium-238	1959	2.47	pci/g	-	2.47	71.42%
114487	Uranium-238	LSP-SS-06	2.12	pci/g	J	2.12	64.28%
114564	Uranium-238	LSP-SB-01	1.99	pci/g	-	1.99	57.14%
114745	Uranium-238	1961	1.86	pci/g	-	1.86	50.00%
114821	Uranium-238	1958	1.84	pci/g	-	1.84	42.85%
114734	Uranium-238	1960	1.59	pci/g	-	1.59	35.71%
067904	Uranium-238	LIME	1.33	pci/g	-	1.33	28.57%
114598	Uranium-238	LSP-SS-09	1.24	pci/g	J	1.24	21.42%
114762	Uranium-238	1963	0.87	pci/g	-	0.87	14.28%
114881	Uranium-238	LSP-SS-10	0.856	pci/g	-	0.856	7.14%
067902	Uranium-238	LIME	0.712	pci/g	-	0.712	0.00%

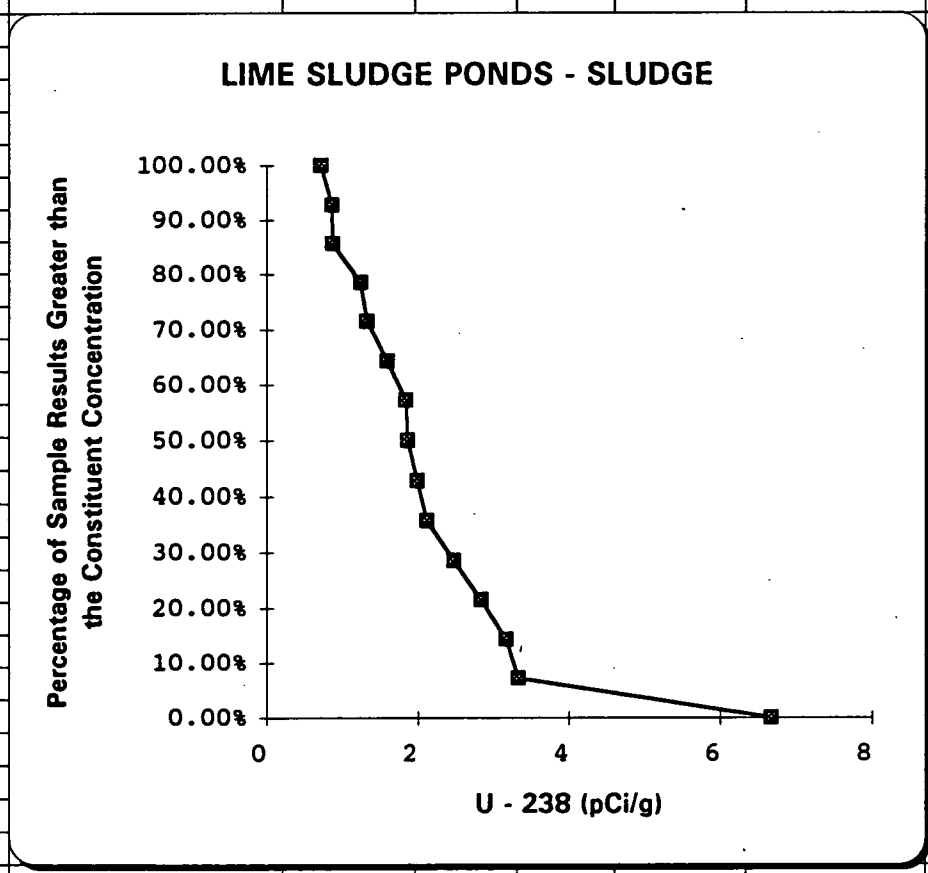


TABLE A.3-14
LIME SLUDGE PONDS - BERM

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114510	Arsenic	LSP-SB-03	8.8	mg/kg	-	8.8	100.00%
114576	Arsenic	LSP-SB-07	8.7	mg/kg	-	8.7	88.20%
114479	Arsenic	LSP-SS-07	8.7	mg/kg	J	8.7	88.20%
114469	Arsenic	LSP-SS-03	8.5	mg/kg	J	8.5	82.30%
114508	Arsenic	LSP-SB-02	8.1	mg/kg	-	8.1	76.40%
114476	Arsenic	LSP-SS-04	7.9	mg/kg	J	7.9	70.50%
114477	Arsenic	LSP-SS-07	7.8	mg/kg	J	7.8	58.80%
114490	Arsenic	LSP-SS-08	7.8	mg/kg	J	7.8	58.80%
114467	Arsenic	LSP-SS-03	7.5	mg/kg	J	7.5	52.90%
114570	Arsenic	LSP-SB-04	7.2	mg/kg	-	7.2	41.10%
114600	Arsenic	LSP-SB-05	7.2	mg/kg	-	7.2	41.10%
114474	Arsenic	LSP-SS-04	7.1	mg/kg	J	7.1	35.20%
114500	Arsenic	LSP-SS-11	6.6	mg/kg	-	6.6	29.40%
114498	Arsenic	LSP-SS-11	6.4	mg/kg	-	6.4	23.50%
114488	Arsenic	LSP-SS-08	6.3	mg/kg	J	6.3	17.60%
114501	Arsenic	LSP-SS-12	5.8	mg/kg	-	5.8	11.70%
114602	Arsenic	LSP-SB-06	5.6	mg/kg	-	5.6	5.80%
114503	Arsenic	LSP-SS-12	5.1	mg/kg	-	5.1	.00%

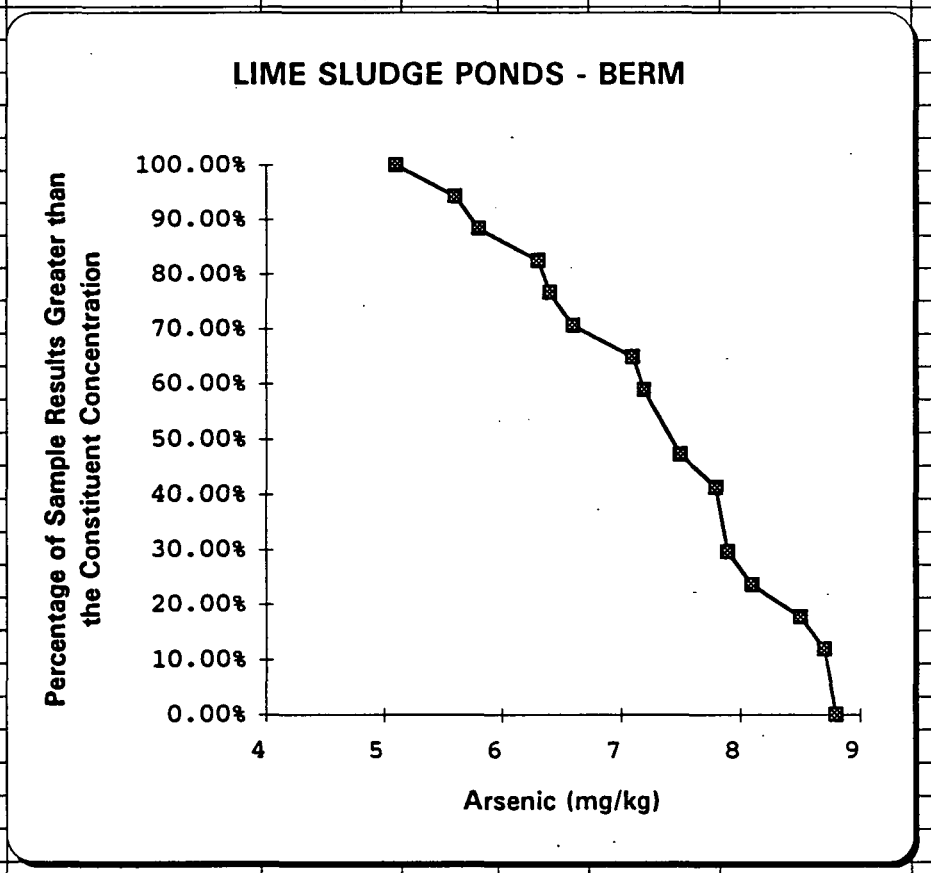


TABLE A.3-14
LIME SLUDGE PONDS - BERM

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114501	Cesium-137	LSP-SS-12	0.339	pci/g	-	0.339	100.00%
114488	Cesium-137	LSP-SS-08	0.28	pci/g	-	0.28	94.40%
114498	Cesium-137	LSP-SS-11	0.215	pci/g	-	0.215	88.80%
114467	Cesium-137	LSP-SS-03	0.21	pci/g	-	0.21	83.30%
114474	Cesium-137	LSP-SS-04	0.192	pci/g	J	0.192	77.70%
114469	Cesium-137	LSP-SS-03	0.17	pci/g	J	0.17	72.20%
114479	Cesium-137	LSP-SS-07	0.13	pci/g	J	0.13	61.10%
114503	Cesium-137	LSP-SS-12	0.13	pci/g	J	0.13	61.10%
114576	Cesium-137	LSP-SB-07	0.116	pci/g	-	0.116	55.50%
114570	Cesium-137	LSP-SB-04	0.1	pci/g	J	0.1	44.40%
008448	Cesium-137	1041	0.2	pci/g	UJ	0.1	44.40%
114510	Cesium-137	LSP-SB-03	0.094	pci/g	J	0.094	38.80%
114477	Cesium-137	LSP-SS-07	0.064	pci/g	J	0.064	33.30%
114508	Cesium-137	LSP-SB-02	0.11	pci/g	UJ	0.055	27.70%
114600	Cesium-137	LSP-SB-05	0.107	pci/g	UJ	0.0535	22.20%
114500	Cesium-137	LSP-SS-11	0.093	pci/g	UJ	0.0465	16.60%
114490	Cesium-137	LSP-SS-08	0.087	pci/g	UJ	0.0435	11.10%
114476	Cesium-137	LSP-SS-04	0.086	pci/g	UJ	0.043	5.50%
114602	Cesium-137	LSP-SB-06	0.0853	pci/g	UJ	0.04265	.00%

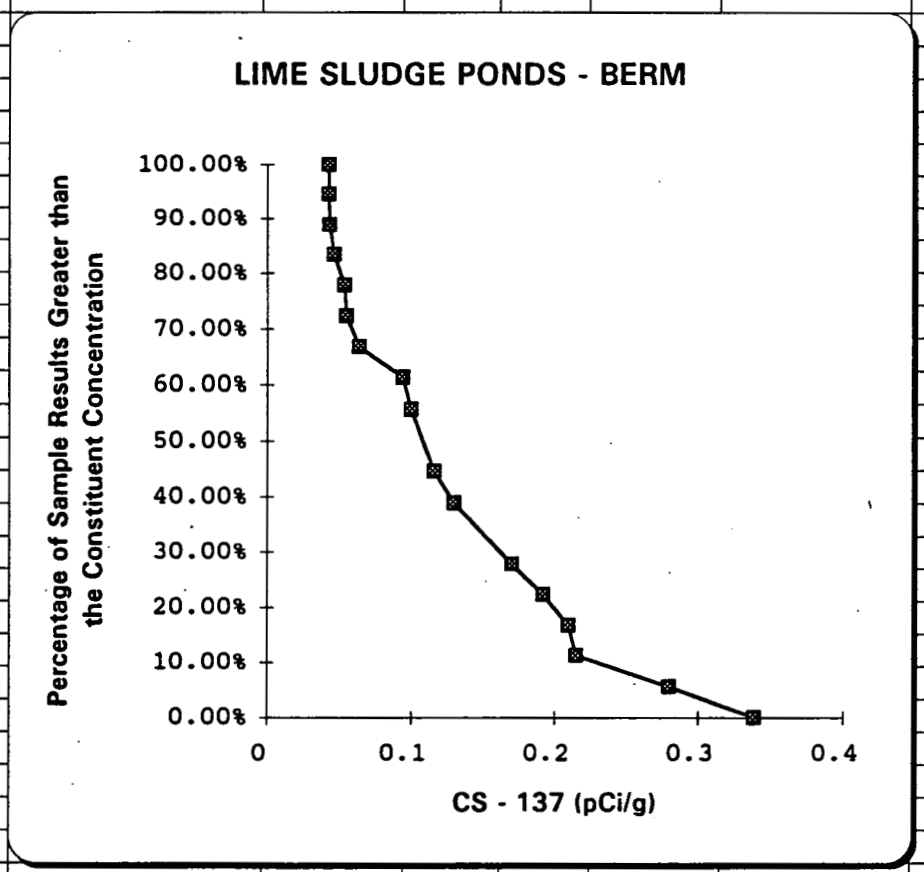


TABLE A.3-14
LIME SLUDGE PONDS - BERM

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114576	Neptunium-237	LSP-SB-07	0.541	pci/g	N	0.541	100.00%
114570	Neptunium-237	LSP-SB-04	0.48	pci/g	N	0.48	94.40%
114602	Neptunium-237	LSP-SB-06	0.3537	pci/g	J	0.3537	88.80%
008448	Neptunium-237	1041	0.6	pci/g	U	0.3	83.30%
114600	Neptunium-237	LSP-SB-05	0.289	pci/g	J	0.289	77.70%
114501	Neptunium-237	LSP-SS-12	0.284	pci/g	N	0.284	72.20%
114479	Neptunium-237	LSP-SS-07	0.19	pci/g	N	0.19	66.60%
114467	Neptunium-237	LSP-SS-03	0.16	pci/g	N	0.16	61.10%
114498	Neptunium-237	LSP-SS-11	0.143	pci/g	N	0.143	55.50%
114500	Neptunium-237	LSP-SS-11	0.128	pci/g	N	0.128	50.00%
114508	Neptunium-237	LSP-SB-02	0.111	pci/g	N	0.111	44.40%
114477	Neptunium-237	LSP-SS-07	0.096	pci/g	N	0.096	38.80%
114469	Neptunium-237	LSP-SS-03	0.08	pci/g	N	0.08	33.30%
114503	Neptunium-237	LSP-SS-12	0.045	pci/g	N	0.045	27.70%
114510	Neptunium-237	LSP-SB-03	0.044	pci/g	N	0.044	22.20%
114474	Neptunium-237	LSP-SS-04	0.041	pci/g	N	0.041	16.60%
114488	Neptunium-237	LSP-SS-08	0.04	pci/g	N	0.04	5.50%
114490	Neptunium-237	LSP-SS-08	0.04	pci/g	N	0.04	5.50%
114476	Neptunium-237	LSP-SS-04	0.03	pci/g	N	0.03	.00%

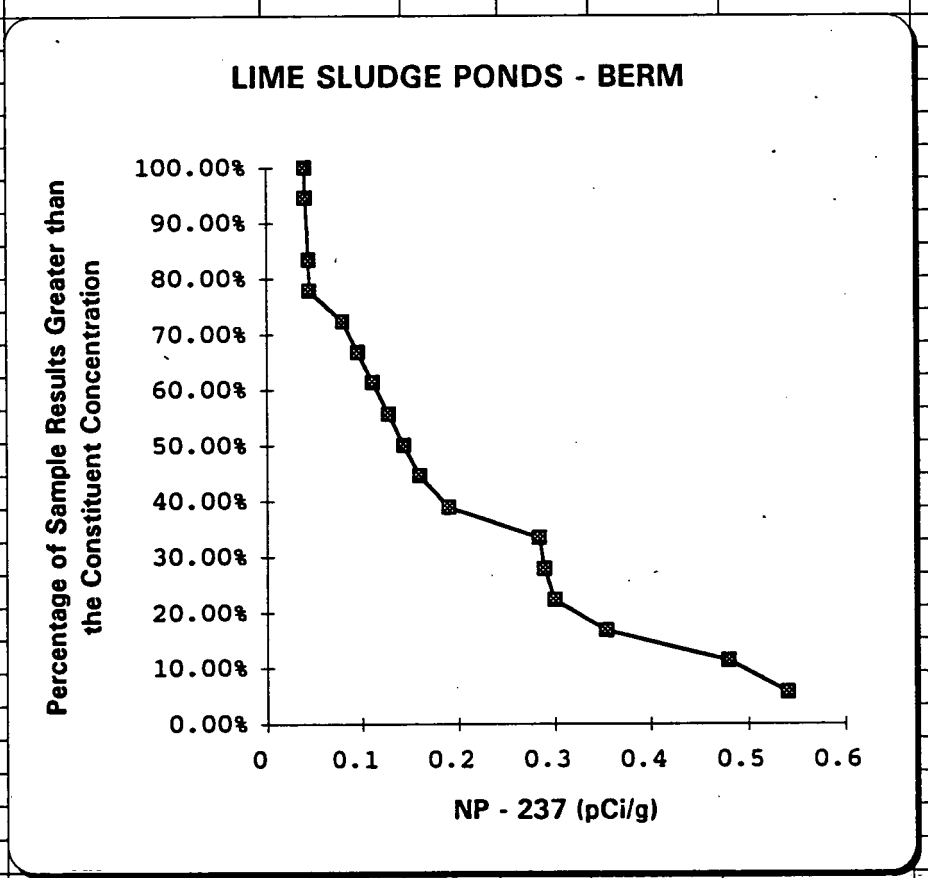


TABLE A.3-14
LIME SLUDGE PONDS - BERM

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114477	Radium-226	LSP-SS-07	2.45	pci/g	-	2.45	100.00%
114479	Radium-226	LSP-SS-07	2.36	pci/g	-	2.36	94.40%
114498	Radium-226	LSP-SS-11	1.47	pci/g	-	1.47	88.80%
114508	Radium-226	LSP-SB-02	1.33	pci/g	-	1.33	83.30%
114576	Radium-226	LSP-SB-07	1.26	pci/g	-	1.26	77.70%
114474	Radium-226	LSP-SS-04	1.23	pci/g	J	1.23	72.20%
114488	Radium-226	LSP-SS-08	1.17	pci/g	J	1.17	66.60%
114503	Radium-226	LSP-SS-12	1.15	pci/g	-	1.15	61.10%
114500	Radium-226	LSP-SS-11	1.14	pci/g	-	1.14	50.00%
114570	Radium-226	LSP-SB-04	1.14	pci/g	-	1.14	50.00%
114490	Radium-226	LSP-SS-08	1.12	pci/g	J	1.12	44.40%
008448	Radium-226	1041	1.1	pci/g	J	1.1	38.80%
114467	Radium-226	LSP-SS-03	1.08	pci/g	J	1.08	27.70%
114469	Radium-226	LSP-SS-03	1.08	pci/g	J	1.08	27.70%
114510	Radium-226	LSP-SB-03	1.06	pci/g	-	1.06	16.60%
114476	Radium-226	LSP-SS-04	1.06	pci/g	J	1.06	16.60%
114501	Radium-226	LSP-SS-12	1.05	pci/g	-	1.05	11.10%
114602	Radium-226	LSP-SB-06	0.97	pci/g	-	0.97	5.50%
114600	Radium-226	LSP-SB-05	0.953	pci/g	-	0.953	.00%

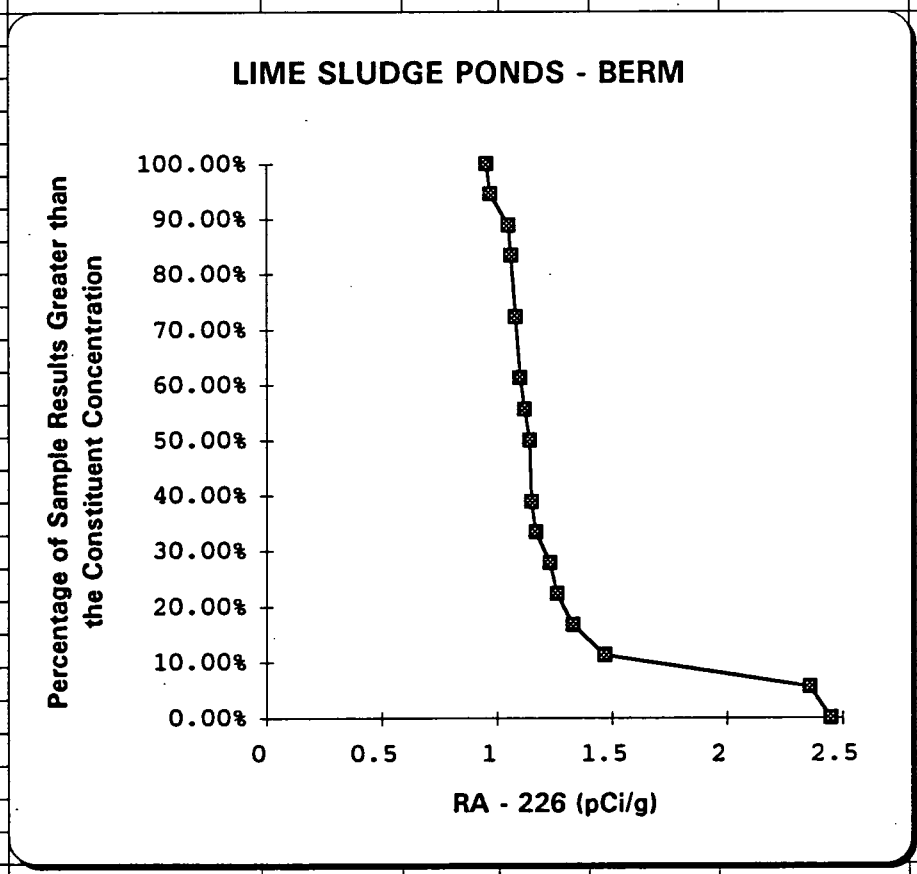


TABLE A.3-14
LIME SLUDGE PONDS - BERM

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114477	Radium-228	LSP-SS-07	1.47	pci/g	-	1.47	100.00%
114570	Radium-228	LSP-SB-04	1.43	pci/g	-	1.43	94.40%
114467	Radium-228	LSP-SS-03	1.42	pci/g	-	1.42	88.80%
114479	Radium-228	LSP-SS-07	1.37	pci/g	-	1.37	83.30%
114474	Radium-228	LSP-SS-04	1.35	pci/g	-	1.35	77.70%
114469	Radium-228	LSP-SS-03	1.33	pci/g	-	1.33	66.60%
114490	Radium-228	LSP-SS-08	1.33	pci/g	-	1.33	66.60%
114576	Radium-228	LSP-SB-07	1.32	pci/g	-	1.32	61.10%
114508	Radium-228	LSP-SB-02	1.24	pci/g	-	1.24	55.50%
114510	Radium-228	LSP-SB-03	1.21	pci/g	-	1.21	50.00%
114602	Radium-228	LSP-SB-06	1.16	pci/g	-	1.16	44.40%
114476	Radium-228	LSP-SS-04	1.12	pci/g	-	1.12	38.80%
114488	Radium-228	LSP-SS-08	1.11	pci/g	-	1.11	33.30%
114500	Radium-228	LSP-SS-11	1.08	pci/g	-	1.08	22.20%
114600	Radium-228	LSP-SB-05	1.08	pci/g	-	1.08	22.20%
114498	Radium-228	LSP-SS-11	1.07	pci/g	-	1.07	16.60%
114503	Radium-228	LSP-SS-12	0.983	pci/g	-	0.983	11.10%
008448	Radium-228	1041	0.9	pci/g	J	0.9	5.50%
114501	Radium-228	LSP-SS-12	0.709	pci/g	-	0.709	.00%

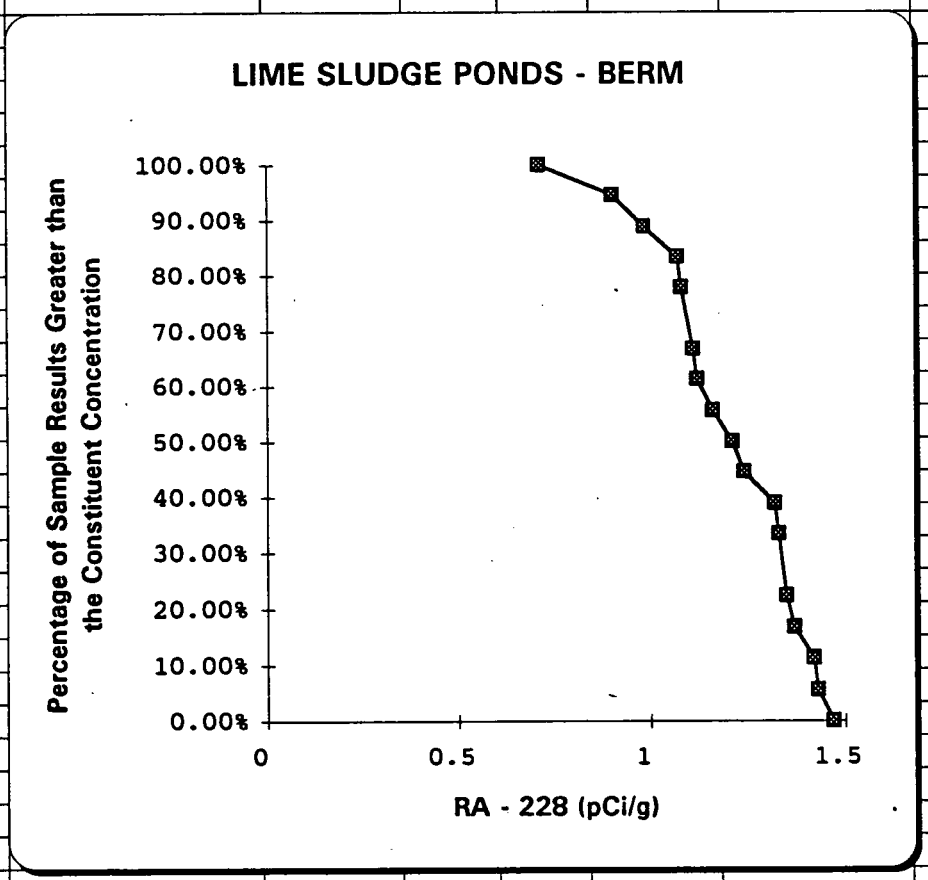


TABLE A.3-14
LIME SLUDGE PONDS - BERM

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114508	Strontium-90	LSP-SB-02	0.959	pci/g	J	0.959	100.00%
114479	Strontium-90	LSP-SS-07	0.86	pci/g	J	0.86	94.40%
114510	Strontium-90	LSP-SB-03	0.841	pci/g	J	0.841	88.80%
114498	Strontium-90	LSP-SS-11	0.508	pci/g	J	0.508	83.30%
114490	Strontium-90	LSP-SS-08	0.41	pci/g	J	0.41	77.70%
114500	Strontium-90	LSP-SS-11	0.725	pci/g	UJ	0.3625	72.20%
114501	Strontium-90	LSP-SS-12	0.627	pci/g	UJ	0.3135	66.60%
114503	Strontium-90	LSP-SS-12	0.565	pci/g	UJ	0.2825	61.10%
8448	Strontium-90	1041	0.5	pci/g	U	0.25	55.50%
114477	Strontium-90	LSP-SS-07	0.48	pci/g	UJ	0.24	50.00%
114570	Strontium-90	LSP-SB-04	0.43	pci/g	UJ	0.215	44.40%
114474	Strontium-90	LSP-SS-04	0.419	pci/g	UJ	0.2095	38.80%
114476	Strontium-90	LSP-SS-04	0.417	pci/g	UJ	0.2085	33.30%
114488	Strontium-90	LSP-SS-08	0.412	pci/g	UJ	0.206	27.70%
114469	Strontium-90	LSP-SS-03	0.397	pci/g	UJ	0.1985	22.20%
114576	Strontium-90	LSP-SB-07	0.381	pci/g	UJ	0.1905	16.60%
114600	Strontium-90	LSP-SB-05	0.376	pci/g	UJ	0.188	11.10%
114602	Strontium-90	LSP-SB-06	0.354	pci/g	UJ	0.177	5.50%
114467	Strontium-90	LSP-SS-03	0.235	pci/g	UJ	0.1175	.00%

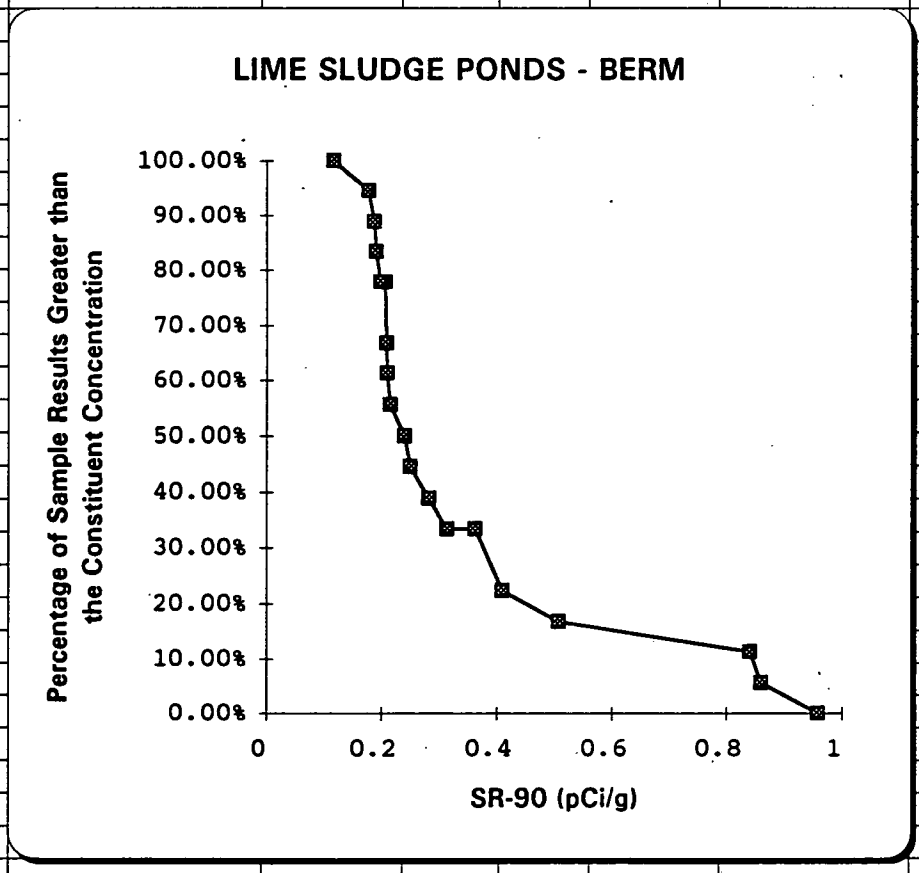


TABLE A.3-14
LIME SLUDGE PONDS - BERM

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114474	Technetium-99	LSP-SS-04	0.403	pci/g	UJ	0.2015	100.00%
114479	Technetium-99	LSP-SS-07	0.4	pci/g	UJ	0.2	94.10%
114500	Technetium-99	LSP-SS-11	0.399	pci/g	UJ	0.1995	88.20%
114503	Technetium-99	LSP-SS-12	0.398	pci/g	UJ	0.199	82.30%
114498	Technetium-99	LSP-SS-11	0.396	pci/g	UJ	0.198	76.40%
114508	Technetium-99	LSP-SB-02	0.392	pci/g	UJ	0.196	70.50%
114477	Technetium-99	LSP-SS-07	0.39	pci/g	UJ	0.195	64.70%
114576	Technetium-99	LSP-SB-07	0.374	pci/g	UJ	0.187	58.80%
114501	Technetium-99	LSP-SS-12	0.369	pci/g	UJ	0.1845	52.90%
114490	Technetium-99	LSP-SS-08	0.358	pci/g	UJ	0.179	47.00%
114510	Technetium-99	LSP-SB-03	0.355	pci/g	UJ	0.1775	41.10%
114476	Technetium-99	LSP-SS-04	0.352	pci/g	UJ	0.176	35.20%
114488	Technetium-99	LSP-SS-08	0.347	pci/g	UJ	0.1735	29.40%
114600	Technetium-99	LSP-SB-05	0.344	pci/g	UJ	0.172	23.50%
114467	Technetium-99	LSP-SS-03	0.342	pci/g	UJ	0.171	17.60%
114570	Technetium-99	LSP-SB-04	0.34	pci/g	UJ	0.17	11.70%
114469	Technetium-99	LSP-SS-03	0.339	pci/g	UJ	0.1695	5.80%
114602	Technetium-99	LSP-SB-06	0.331	pci/g	UJ	0.1655	.00%

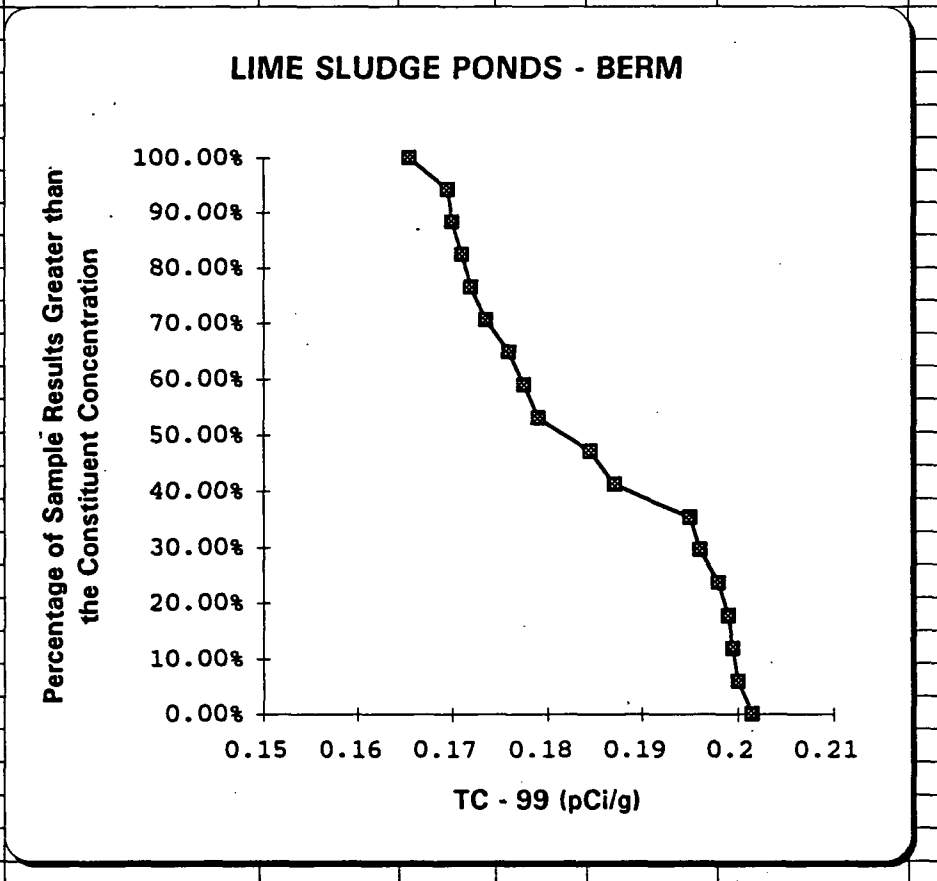


TABLE A.3-14
LIME SLUDGE PONDS - BERM

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
008448	Thorium-228	1041	1.3	pci/g	-	1.3	100.00%
114576	Thorium-228	LSP-SB-07	1.27	pci/g	-	1.27	93.70%
114570	Thorium-228	LSP-SB-04	1.15	pci/g	J	1.15	87.50%
114479	Thorium-228	LSP-SS-07	1.09	pci/g	-	1.09	81.20%
114469	Thorium-228	LSP-SS-03	1.07	pci/g	-	1.07	75.00%
114488	Thorium-228	LSP-SS-08	1.06	pci/g	-	1.06	62.50%
114510	Thorium-228	LSP-SB-03	1.06	pci/g	J	1.06	62.50%
114474	Thorium-228	LSP-SS-04	0.98	pci/g	-	0.98	56.20%
114476	Thorium-228	LSP-SS-04	0.96	pci/g	-	0.96	43.70%
114490	Thorium-228	LSP-SS-08	0.96	pci/g	-	0.96	43.70%
114467	Thorium-228	LSP-SS-03	0.95	pci/g	-	0.95	37.50%
114477	Thorium-228	LSP-SS-07	0.936	pci/g	-	0.936	31.20%
114498	Thorium-228	LSP-SS-11	0.935	pci/g	J	0.935	25.00%
114600	Thorium-228	LSP-SB-05	0.911	pci/g	-	0.911	18.70%
114500	Thorium-228	LSP-SS-11	0.898	pci/g	J	0.898	12.50%
114501	Thorium-228	LSP-SS-12	0.865	pci/g	J	0.865	6.20%
114503	Thorium-228	LSP-SS-12	0.859	pci/g	J	0.859	.00%

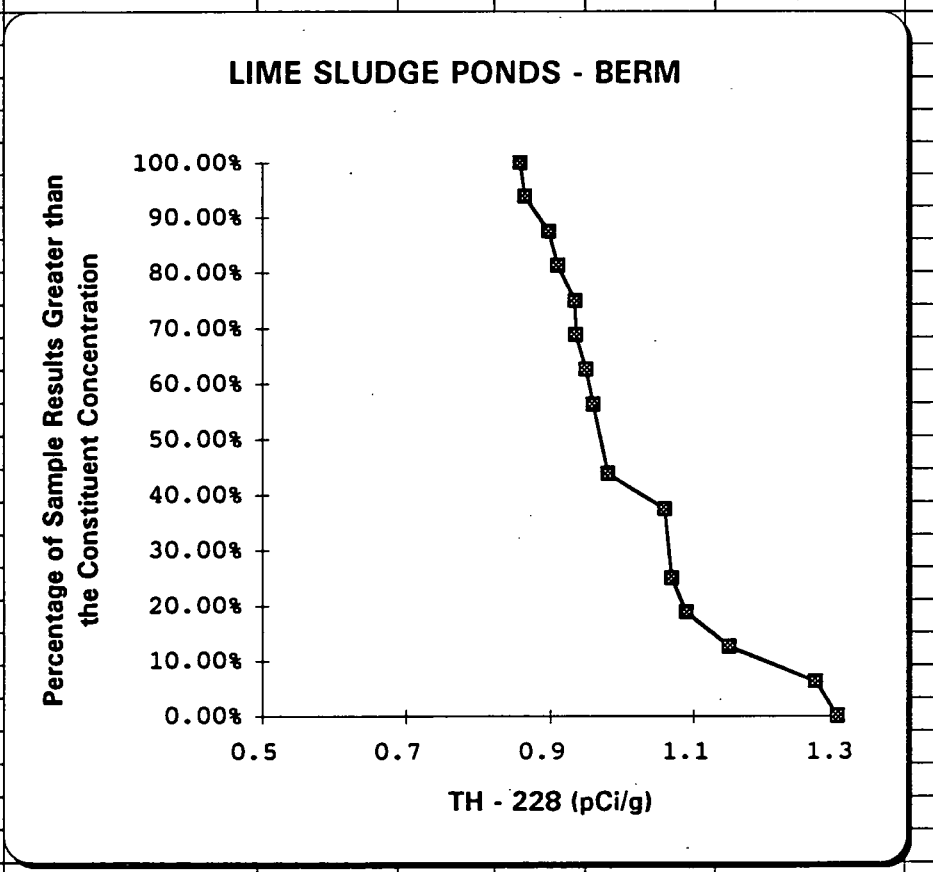


TABLE A.3-14
LIME SLUDGE PONDS - BERM

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114477	Thorium-230	LSP-SS-07	44.8	pci/g	-	44.8	100.00%
114479	Thorium-230	LSP-SS-07	32.2	pci/g	-	32.2	94.10%
114501	Thorium-230	LSP-SS-12	6.01	pci/g	J	6.01	88.20%
114576	Thorium-230	LSP-SB-07	5.19	pci/g	-	5.19	82.30%
114600	Thorium-230	LSP-SB-05	5.02	pci/g	-	5.02	76.40%
114570	Thorium-230	LSP-SB-04	4.74	pci/g	J	4.74	70.50%
008448	Thorium-230	1041	3.8	pci/g	-	3.8	64.70%
114498	Thorium-230	LSP-SS-11	3.59	pci/g	J	3.59	58.80%
114474	Thorium-230	LSP-SS-04	3	pci/g	-	3	52.90%
114490	Thorium-230	LSP-SS-08	2.9	pci/g	-	2.9	47.00%
114467	Thorium-230	LSP-SS-03	2.64	pci/g	-	2.64	41.10%
114488	Thorium-230	LSP-SS-08	2.4	pci/g	-	2.4	35.20%
114503	Thorium-230	LSP-SS-12	2.02	pci/g	J	2.02	29.40%
114469	Thorium-230	LSP-SS-03	2	pci/g	-	2	23.50%
114510	Thorium-230	LSP-SB-03	1.94	pci/g	J	1.94	17.60%
114476	Thorium-230	LSP-SS-04	1.8	pci/g	-	1.8	11.70%
114602	Thorium-230	LSP-SB-06	1.53	pci/g	J	1.53	5.80%
114500	Thorium-230	LSP-SS-11	1.15	pci/g	J	1.15	.00%

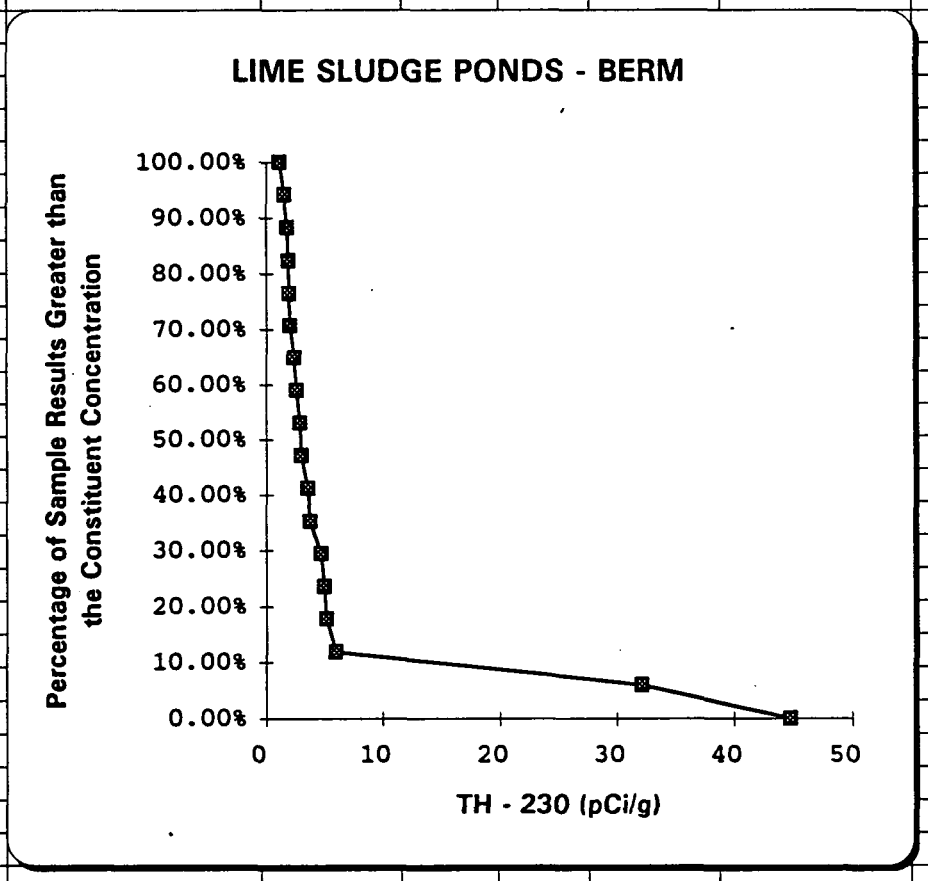


TABLE A.3-14
LIME SLUDGE PONDS - BERM

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
008448	Thorium-232	1041	1.5	pci/g	-	1.5	100.00%
114479	Thorium-232	LSP-SS-07	1.34	pci/g	-	1.34	93.70%
114467	Thorium-232	LSP-SS-03	1.13	pci/g	-	1.13	87.50%
114576	Thorium-232	LSP-SB-07	1.07	pci/g	-	1.07	81.20%
114510	Thorium-232	LSP-SB-03	1.05	pci/g	J	1.05	75.00%
114469	Thorium-232	LSP-SS-03	1.03	pci/g	-	1.03	68.70%
114474	Thorium-232	LSP-SS-04	1.01	pci/g	-	1.01	62.50%
114600	Thorium-232	LSP-SB-05	0.947	pci/g	-	0.947	56.20%
114476	Thorium-232	LSP-SS-04	0.94	pci/g	-	0.94	43.70%
114490	Thorium-232	LSP-SS-08	0.94	pci/g	-	0.94	43.70%
114477	Thorium-232	LSP-SS-07	0.93	pci/g	-	0.93	37.50%
114570	Thorium-232	LSP-SB-04	0.88	pci/g	J	0.88	31.20%
114488	Thorium-232	LSP-SS-08	0.87	pci/g	-	0.87	25.00%
114500	Thorium-232	LSP-SS-11	0.851	pci/g	J	0.851	18.70%
114498	Thorium-232	LSP-SS-11	0.841	pci/g	J	0.841	12.50%
114503	Thorium-232	LSP-SS-12	0.819	pci/g	J	0.819	6.20%
114501	Thorium-232	LSP-SS-12	0.693	pci/g	J	0.693	.00%

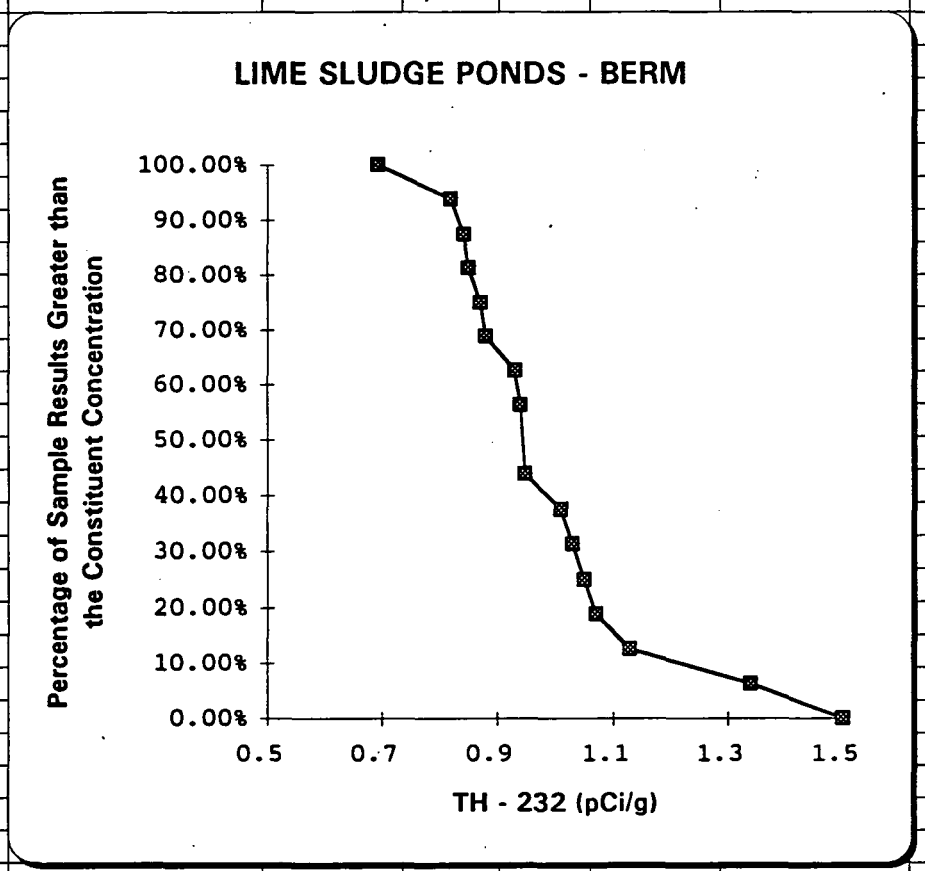


TABLE A.3-14
LIME SLUDGE PONDS - BERM

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114467	Uranium, Total	LSP-SS-03	35.8	mg/kg	-	35.8	100.00%
114498	Uranium, Total	LSP-SS-11	29	mg/kg	-	29	94.10%
114474	Uranium, Total	LSP-SS-04	28.9	mg/kg	-	28.9	88.20%
114488	Uranium, Total	LSP-SS-08	27	mg/kg	-	27	82.30%
114576	Uranium, Total	LSP-SB-07	26.4	mg/kg	-	26.4	76.40%
114501	Uranium, Total	LSP-SS-12	25.7	mg/kg	-	25.7	70.50%
114570	Uranium, Total	LSP-SB-04	25.2	mg/kg	J	25.2	64.70%
114469	Uranium, Total	LSP-SS-03	24	mg/kg	-	24	58.80%
114510	Uranium, Total	LSP-SB-03	23.5	mg/kg	-	23.5	52.90%
114490	Uranium, Total	LSP-SS-08	22.7	mg/kg	-	22.7	47.00%
114476	Uranium, Total	LSP-SS-04	20.7	mg/kg	-	20.7	41.10%
114600	Uranium, Total	LSP-SB-05	19.1	mg/kg	-	19.1	35.20%
114602	Uranium, Total	LSP-SB-06	18.5	mg/kg	-	18.5	29.40%
114479	Uranium, Total	LSP-SS-07	17.6	mg/kg	-	17.6	23.50%
114508	Uranium, Total	LSP-SB-02	15.1	mg/kg	-	15.1	17.60%
114477	Uranium, Total	LSP-SS-07	14.5	mg/kg	-	14.5	11.70%
114503	Uranium, Total	LSP-SS-12	13.7	mg/kg	-	13.7	5.80%
114500	Uranium, Total	LSP-SS-11	11.2	mg/kg	-	11.2	.00%

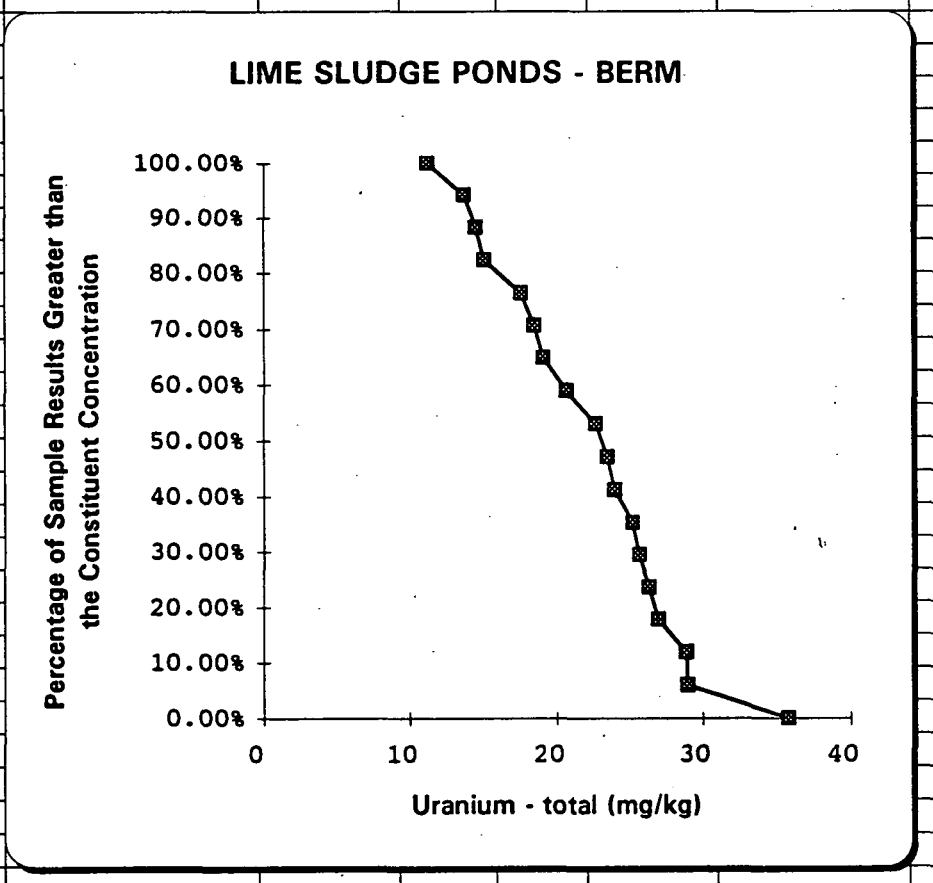


TABLE A.3-14
LIME SLUDGE PONDS - BERM

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114589	Uranium-234		19.5	pci/g	-	19.5	100.00%
114591	Uranium-234		13.4	pci/g	-	13.4	95.00%
114467	Uranium-234	LSP-SS-03	8	pci/g	J	8	90.00%
114501	Uranium-234	LSP-SS-12	7.87	pci/g	J	7.87	85.00%
114498	Uranium-234	LSP-SS-11	7.71	pci/g	J	7.71	80.00%
114488	Uranium-234	LSP-SS-08	5.9	pci/g	J	5.9	75.00%
114474	Uranium-234	LSP-SS-04	5.58	pci/g	J	5.58	70.00%
114570	Uranium-234	LSP-SB-04	5.45	pci/g	J	5.45	65.00%
114479	Uranium-234	LSP-SS-07	4.5	pci/g	-	4.5	60.00%
114576	Uranium-234	LSP-SB-07	4.49	pci/g	-	4.49	55.00%
114469	Uranium-234	LSP-SS-03	4.4	pci/g	J	4.4	50.00%
114510	Uranium-234	LSP-SB-03	4.28	pci/g	J	4.28	45.00%
114477	Uranium-234	LSP-SS-07	4.07	pci/g	-	4.07	40.00%
114476	Uranium-234	LSP-SS-04	3.83	pci/g	J	3.83	35.00%
008448	Uranium-234	1041	3.8	pci/g	J	3.8	30.00%
114490	Uranium-234	LSP-SS-08	3.75	pci/g	J	3.75	25.00%
114508	Uranium-234	LSP-SB-02	3.71	pci/g	J	3.71	20.00%
114500	Uranium-234	LSP-SS-11	3.66	pci/g	J	3.66	15.00%
114503	Uranium-234	LSP-SS-12	3.58	pci/g	J	3.58	10.00%
114600	Uranium-234	LSP-SB-05	3.46	pci/g	-	3.46	5.00%
114602	Uranium-234	LSP-SB-06	2.67	pci/g	-	2.67	0.00%

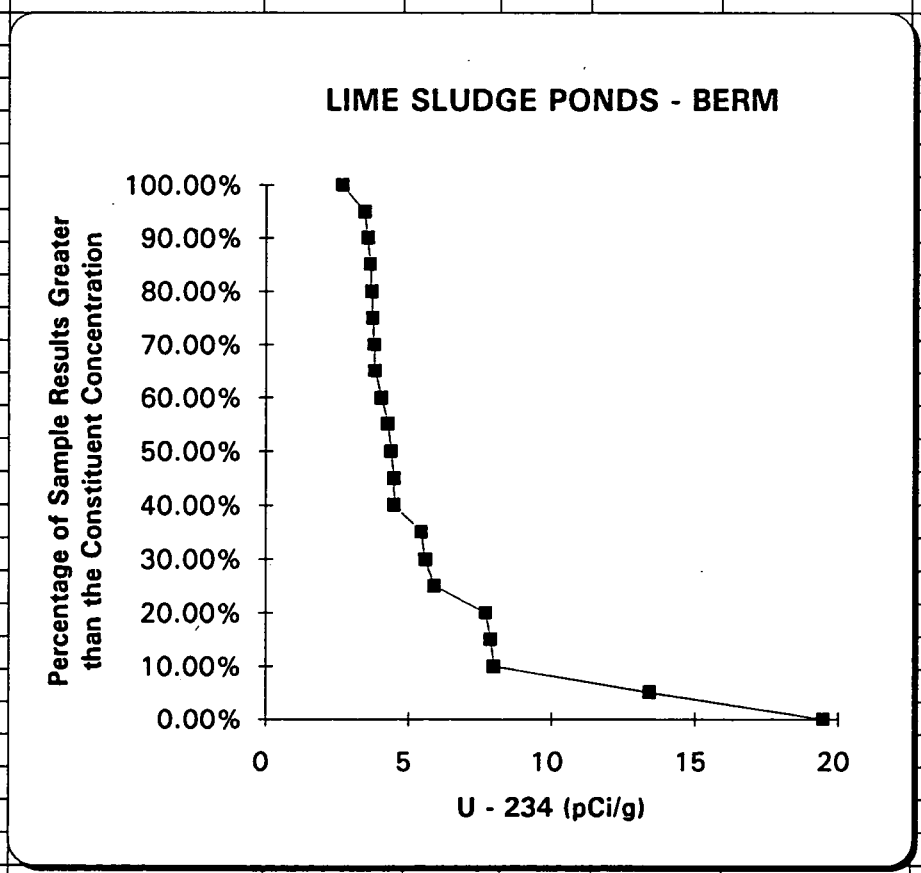


TABLE A.3-14
LIME SLUDGE PONDS - BERM

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114589	Uranium-235/236		1.313	pci/g	-	1.313	100.00%
114591	Uranium-235/236		0.77	pci/g	-	0.77	95.00%
114488	Uranium-235/236	LSP-SS-08	0.42	pci/g	J	0.42	90.00%
114467	Uranium-235/236	LSP-SS-03	0.414	pci/g	J	0.414	85.00%
114498	Uranium-235/236	LSP-SS-11	0.377	pci/g	J	0.377	80.00%
114501	Uranium-235/236	LSP-SS-12	0.348	pci/g	J	0.348	75.00%
008448	Uranium-235/236	1041	0.6	pci/g	UJ	0.3	70.00%
114474	Uranium-235/236	LSP-SS-04	0.29	pci/g	J	0.29	60.00%
114490	Uranium-235/236	LSP-SS-08	0.29	pci/g	J	0.29	60.00%
114570	Uranium-235/236	LSP-SB-04	0.26	pci/g	J	0.26	55.00%
114476	Uranium-235/236	LSP-SS-04	0.22	pci/g	J	0.22	45.00%
114576	Uranium-235/236	LSP-SB-07	0.22	pci/g	J	0.22	45.00%
114479	Uranium-235/236	LSP-SS-07	0.209	pci/g	J	0.209	40.00%
114500	Uranium-235/236	LSP-SS-11	0.204	pci/g	J	0.204	30.00%
114510	Uranium-235/236	LSP-SB-03	0.204	pci/g	J	0.204	30.00%
114508	Uranium-235/236	LSP-SB-02	0.203	pci/g	J	0.203	25.00%
114469	Uranium-235/236	LSP-SS-03	0.2	pci/g	J	0.2	20.00%
114503	Uranium-235/236	LSP-SS-12	0.197	pci/g	J	0.197	15.00%
114600	Uranium-235/236	LSP-SB-05	0.181	pci/g	J	0.181	10.00%
114477	Uranium-235/236	LSP-SS-07	0.18	pci/g	J	0.18	5.00%
114602	Uranium-235/236	LSP-SB-06	0.143	pci/g	J	0.143	0.00%

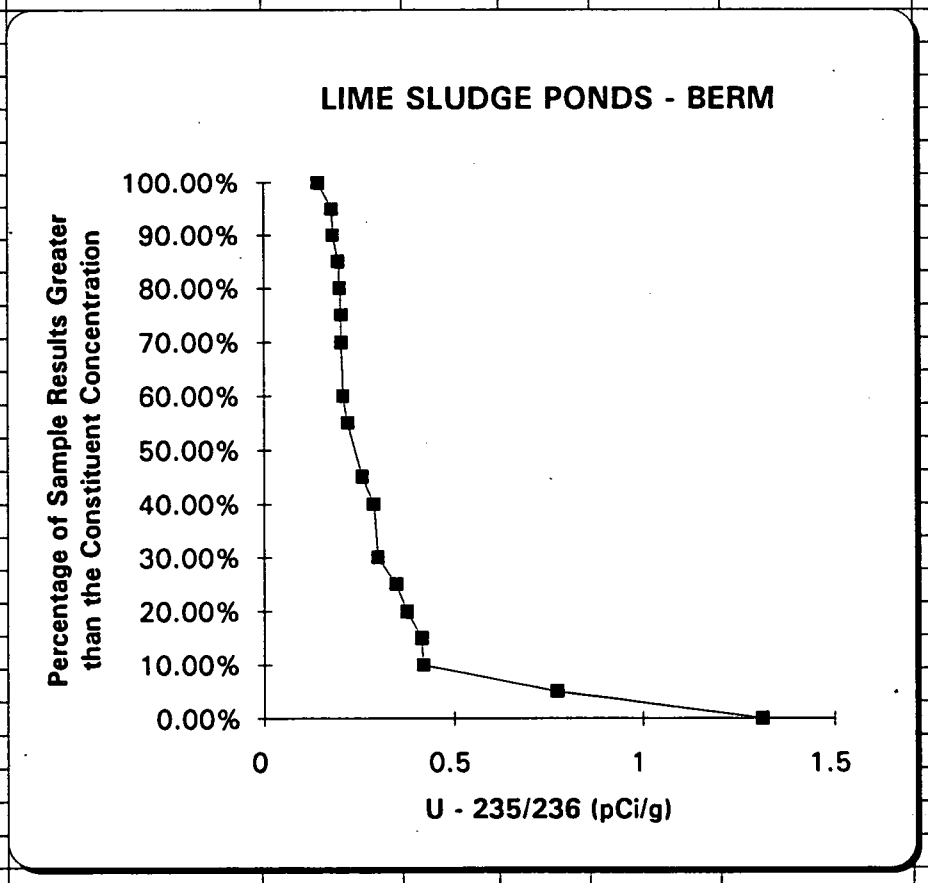


TABLE A.3-14
LIME SLUDGE PONDS - BERM

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114501	Uranium-238	LSP-SS-12	9.54	pci/g	J	9.54	100.00%
114498	Uranium-238	LSP-SS-11	9.38	pci/g	J	9.38	94.40%
114510	Uranium-238	LSP-SB-03	8.75	pci/g	J	8.75	88.80%
114467	Uranium-238	LSP-SS-03	8.49	pci/g	J	8.49	83.30%
114488	Uranium-238	LSP-SS-08	6.69	pci/g	J	6.69	77.70%
114474	Uranium-238	LSP-SS-04	6.54	pci/g	J	6.54	72.20%
114570	Uranium-238	LSP-SB-04	6.47	pci/g	J	6.47	66.60%
008448	Uranium-238	1041	5.9	pci/g	J	5.9	61.10%
114479	Uranium-238	LSP-SS-07	5.61	pci/g	-	5.61	55.50%
114576	Uranium-238	LSP-SB-07	5.09	pci/g	-	5.09	50.00%
114469	Uranium-238	LSP-SS-03	4.69	pci/g	J	4.69	44.40%
114490	Uranium-238	LSP-SS-08	4.68	pci/g	J	4.68	38.80%
114477	Uranium-238	LSP-SS-07	4.64	pci/g	-	4.64	33.30%
114476	Uranium-238	LSP-SS-04	4.52	pci/g	J	4.52	27.70%
114503	Uranium-238	LSP-SS-12	4.1	pci/g	J	4.1	22.20%
114500	Uranium-238	LSP-SS-11	4.05	pci/g	J	4.05	16.60%
114508	Uranium-238	LSP-SB-02	3.93	pci/g	J	3.93	11.10%
114600	Uranium-238	LSP-SB-05	3.78	pci/g	-	3.78	5.50%
114602	Uranium-238	LSP-SB-06	2.75	pci/g	-	2.75	.00%

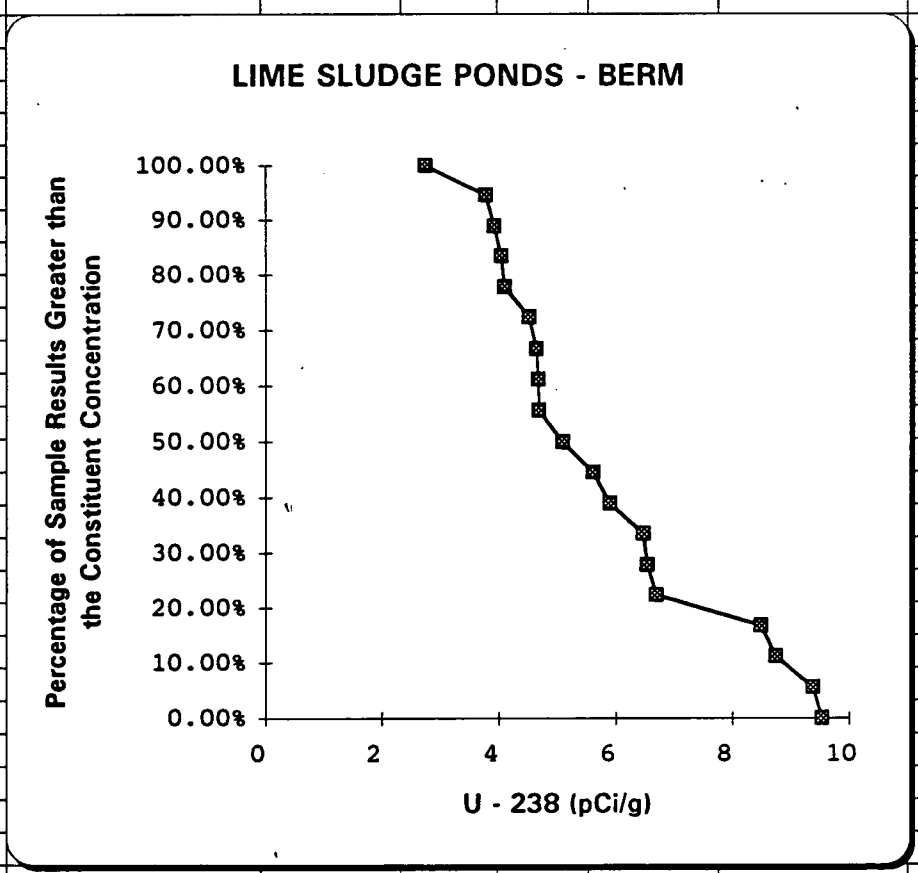


TABLE A.3-15
LIME SLUDGE PONDS - TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114838	Arsenic	1957	14.6	mg/kg	-	14.6	100.00%
114823	Arsenic	1958	13.8	mg/kg	-	13.8	88.88%
114814	Arsenic	1959	8.7	mg/kg	-	8.7	77.77%
114859	Arsenic	1956	7.9	mg/kg	-	7.9	66.66%
114815	Arsenic	1959	7.5	mg/kg	-	7.5	55.55%
114743	Arsenic	1961	4.3	mg/kg	-	4.3	44.44%
114737	Arsenic	1960	3.8	mg/kg	-	3.8	22.22%
114874	Arsenic	1963	3.8	mg/kg	J	3.8	22.22%
114766	Arsenic	1963	2.8	mg/kg	-	2.8	11.11%
114607	Arsenic	1962	1.1	mg/kg	J	1.1	0.00%

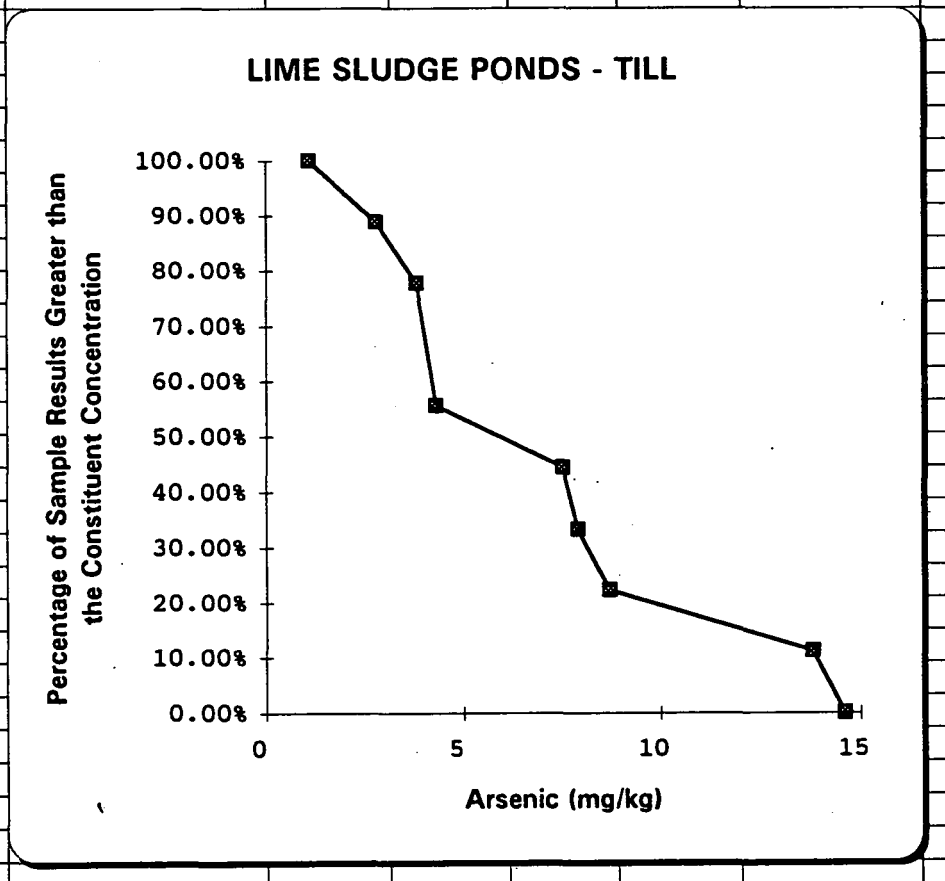


TABLE A.3-15
LIME SLUDGE PONDS - TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
008439	Cesium-137	1039	0.2	pci/g	UJ	0.1	100.00%
114859	Cesium-137	1956	0.11	pci/g	UJ	0.055	90.00%
114814	Cesium-137	1959	0.106	pci/g	UJ	0.053	80.00%
114607	Cesium-137	1962	0.0999	pci/g	UJ	0.04995	70.00%
114823	Cesium-137	1958	0.092	pci/g	UJ	0.046	60.00%
114737	Cesium-137	1960	0.09	pci/g	UJ	0.045	40.00%
114743	Cesium-137	1961	0.09	pci/g	UJ	0.045	40.00%
114874	Cesium-137	1963	0.079	pci/g	UJ	0.0395	30.00%
114815	Cesium-137	1959	0.074	pci/g	UJ	0.037	20.00%
114838	Cesium-137	1957	0.071	pci/g	UJ	0.0355	10.00%
114766	Cesium-137	1963	0.05	pci/g	UJ	0.025	0.00%

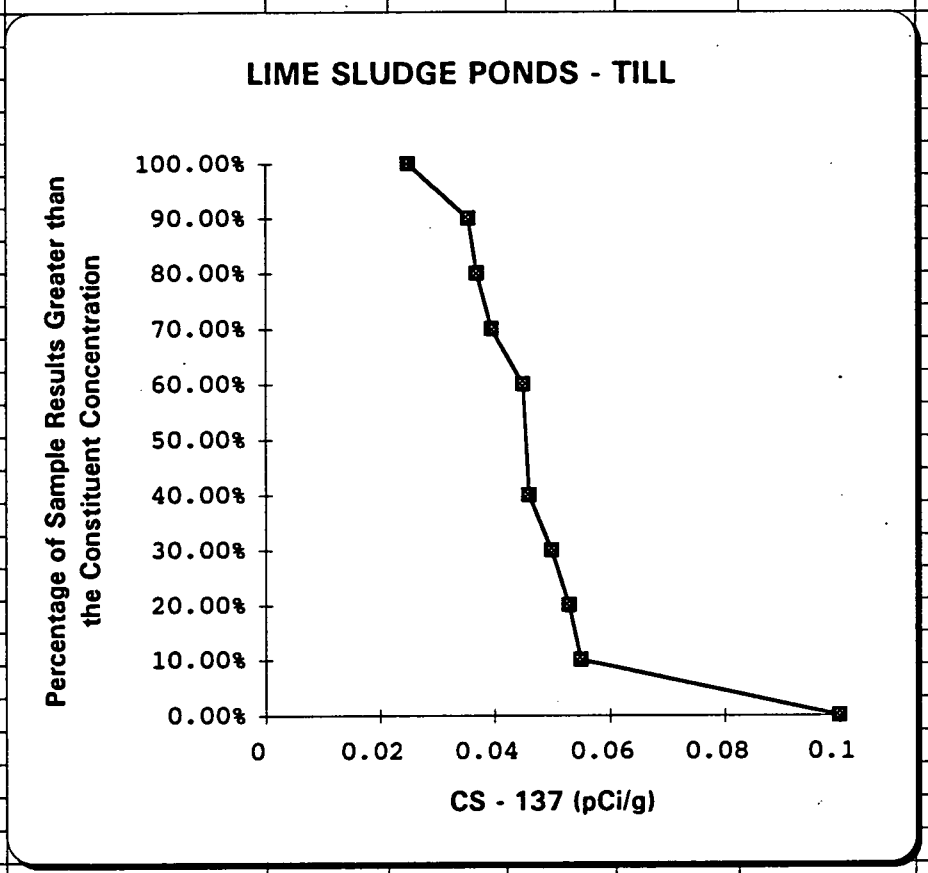


TABLE A.3-15
LIME SLUDGE PONDS - TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
008439	Neptunium-237	1039	0.6	pci/g	U	0.3	100.00%
114874	Neptunium-237	1963	0.129	pci/g	N	0.129	85.71%
114838	Neptunium-237	1957	0.077	pci/g	N	0.077	71.42%
114814	Neptunium-237	1959	0.071	pci/g	N	0.071	57.14%
114815	Neptunium-237	1959	0.054	pci/g	N	0.054	42.85%
114737	Neptunium-237	1960	0.05	pci/g	N	0.05	14.28%
114766	Neptunium-237	1963	0.05	pci/g	N	0.05	14.28%
114859	Neptunium-237	1956	0.034	pci/g	U	0.017	0.00%

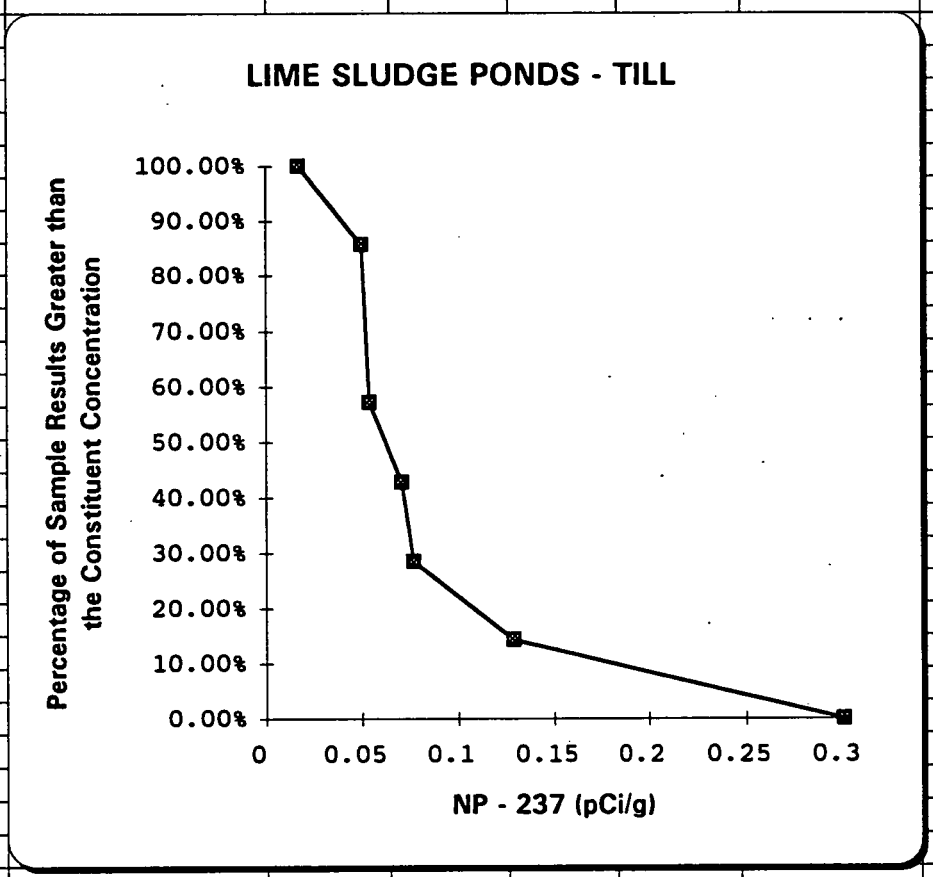


TABLE A.3-15
LIME SLUDGE PONDS - TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114838	Radium-226	1957	1.37	pci/g	-	1.37	100.00%
114823	Radium-226	1958	1.26	pci/g	-	1.26	90.00%
114859	Radium-226	1956	1.25	pci/g	-	1.25	80.00%
114815	Radium-226	1959	1.22	pci/g	-	1.22	70.00%
114814	Radium-226	1959	1.17	pci/g	-	1.17	60.00%
114874	Radium-226	1963	1.04	pci/g	-	1.04	50.00%
114743	Radium-226	1961	1.03	pci/g	-	1.03	40.00%
008439	Radium-226	1039	0.9	pci/g	J	0.9	30.00%
114737	Radium-226	1960	0.88	pci/g	-	0.88	20.00%
114607	Radium-226	1962	0.842	pci/g	-	0.842	10.00%
114766	Radium-226	1963	0.83	pci/g	-	0.83	0.00%

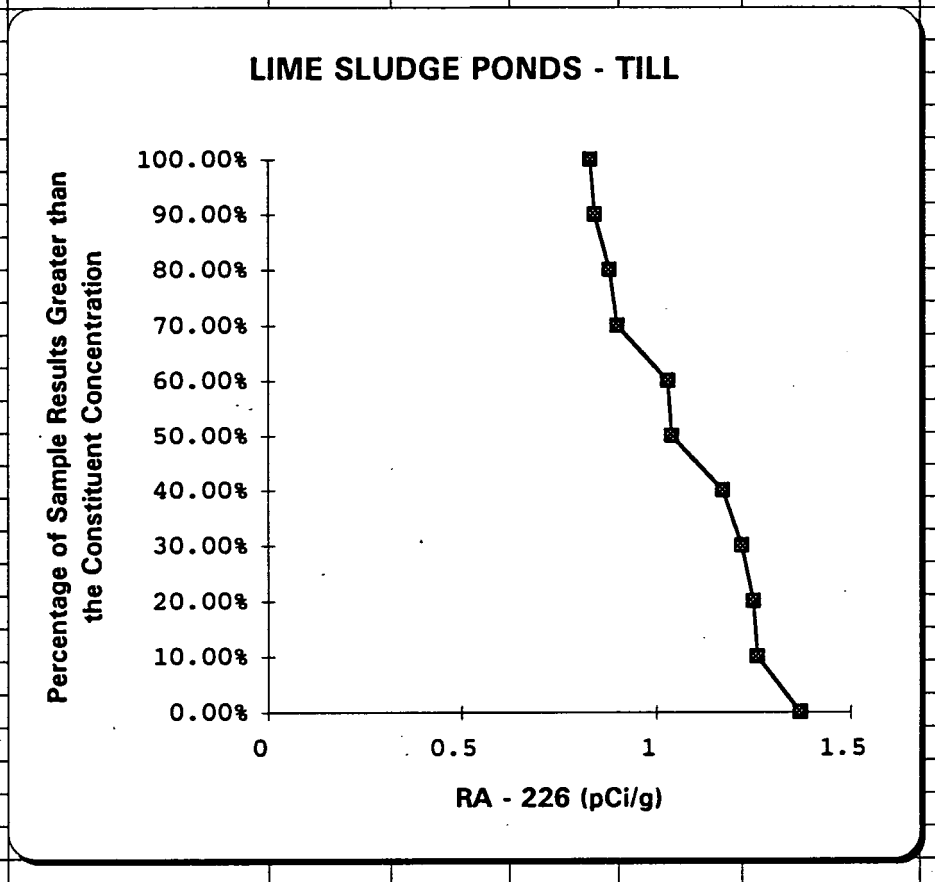


TABLE A.3-15
LIME SLUDGE PONDS - TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114838	Radium-228	1957	1.44	pci/g	-	1.44	100.00%
114823	Radium-228	1958	1.18	pci/g	-	1.18	90.00%
114814	Radium-228	1959	1.06	pci/g	-	1.06	80.00%
114815	Radium-228	1959	1.05	pci/g	-	1.05	70.00%
114743	Radium-228	1961	0.96	pci/g	-	0.96	60.00%
114859	Radium-228	1956	0.9	pci/g	-	0.9	50.00%
114874	Radium-228	1963	0.89	pci/g	-	0.89	40.00%
114607	Radium-228	1962	0.775	pci/g	-	0.775	30.00%
114766	Radium-228	1963	0.73	pci/g	-	0.73	20.00%
114737	Radium-228	1960	0.67	pci/g	-	0.67	10.00%
008439	Radium-228	1039	0.5	pci/g	UJ	0.25	0.00%

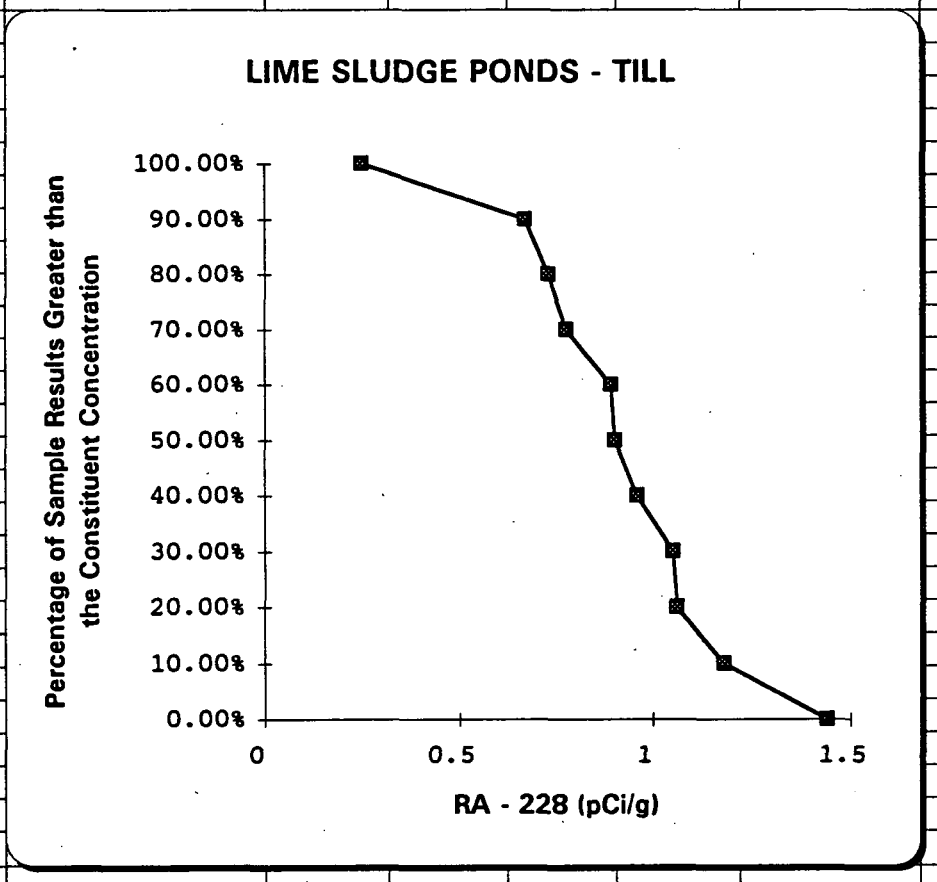


TABLE A.3-15
LIME SLUDGE PONDS - TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114814	Strontium-90	1959	0.538	pci/g	J	0.538	100.00%
114823	Strontium-90	1958	0.364	pci/g	J	0.364	90.00%
8439	Strontium-90	1039	0.5	pci/g	U	0.25	80.00%
114815	Strontium-90	1959	0.237	pci/g	J	0.237	70.00%
114874	Strontium-90	1963	0.215	pci/g	UJ	0.1075	60.00%
114859	Strontium-90	1956	0.21	pci/g	UJ	0.105	50.00%
114607	Strontium-90	1962	0.199	pci/g	UJ	0.0995	40.00%
114737	Strontium-90	1960	0.19	pci/g	UJ	0.095	20.00%
114743	Strontium-90	1961	0.19	pci/g	UJ	0.095	20.00%
114766	Strontium-90	1963	0.17	pci/g	UJ	0.085	10.00%
114838	Strontium-90	1957	0.16	pci/g	UJ	0.08	.00%

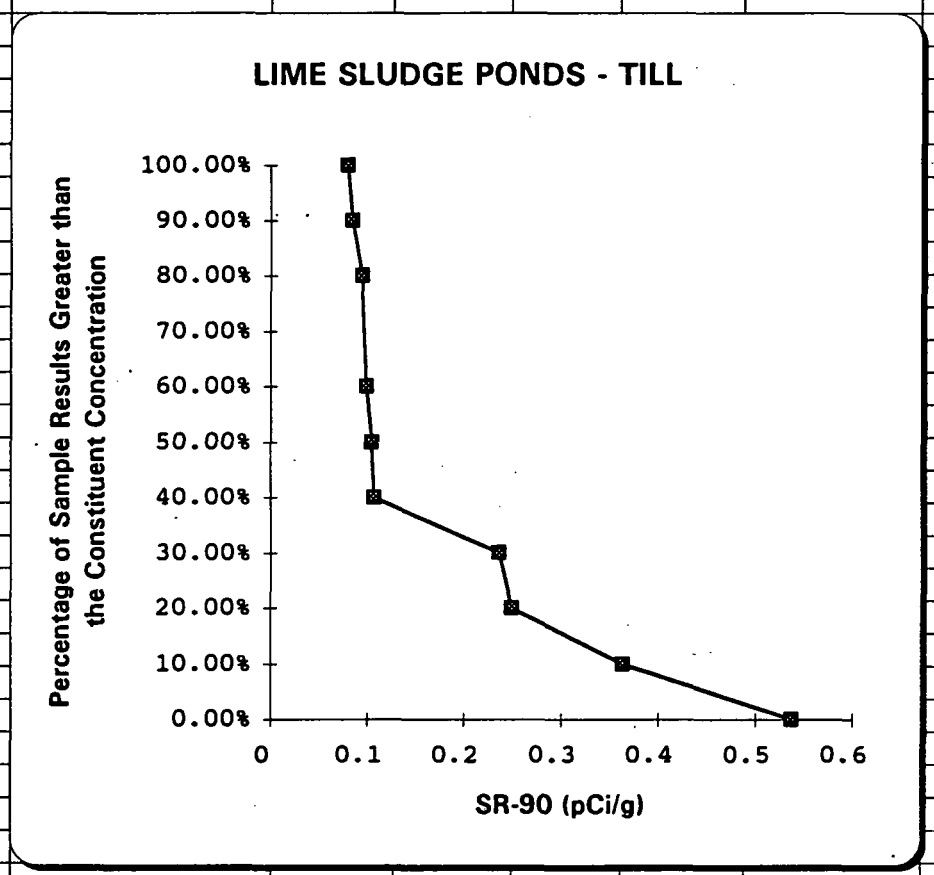


TABLE A.3-15
LIME SLUDGE PONDS - TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
008439	Technetium-99	1039	0.9	pci/g	U	0.45	100.00%
114815	Technetium-99	1959	0.64	pci/g	UJ	0.32	90.00%
114814	Technetium-99	1959	0.575	pci/g	UJ	0.2875	80.00%
114823	Technetium-99	1958	0.571	pci/g	UJ	0.2855	70.00%
114737	Technetium-99	1960	0.57	pci/g	UJ	0.285	50.00%
114743	Technetium-99	1961	0.57	pci/g	UJ	0.285	50.00%
114766	Technetium-99	1963	0.54	pci/g	UJ	0.27	40.00%
114874	Technetium-99	1963	0.438	pci/g	UJ	0.219	30.00%
114859	Technetium-99	1956	0.42	pci/g	UJ	0.21	20.00%
114838	Technetium-99	1957	0.4	pci/g	UJ	0.2	10.00%
114607	Technetium-99	1962	0.367	pci/g	UJ	0.1835	0.00%

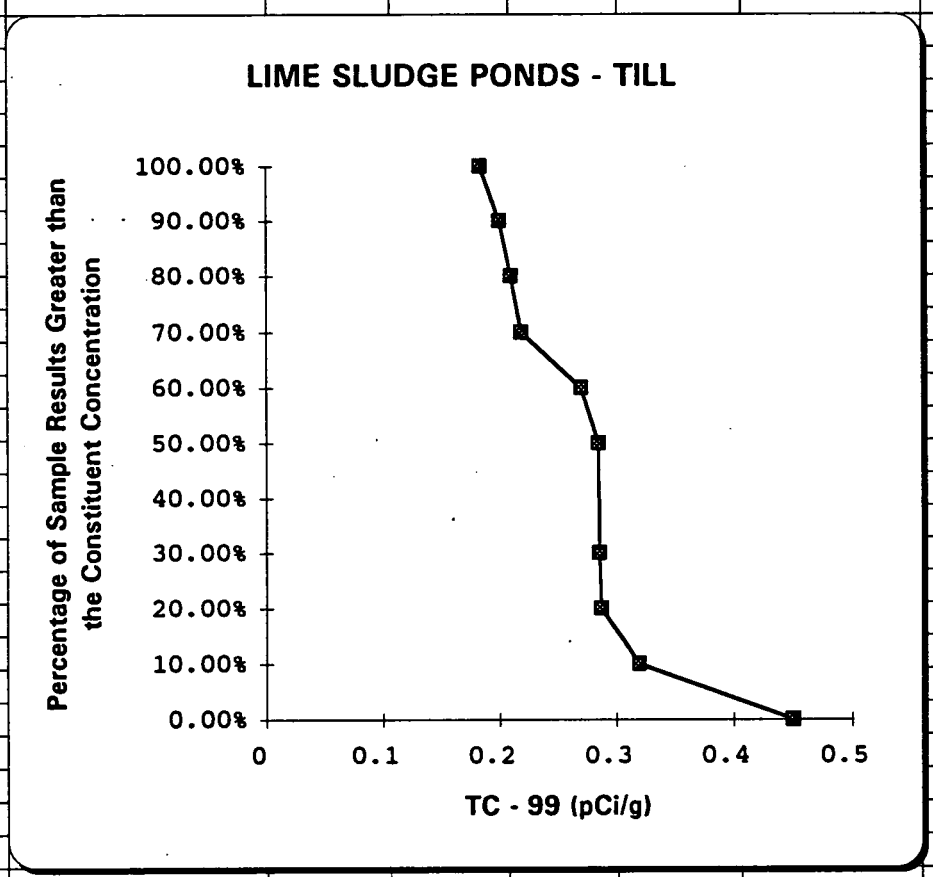


TABLE A.3-15
LIME SLUDGE PONDS - TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114838	Thorium-228	1957	1.27	pci/g	J	1.27	100.00%
114823	Thorium-228	1958	1.07	pci/g	J	1.07	90.00%
114814	Thorium-228	1959	1.02	pci/g	J	1.02	80.00%
114874	Thorium-228	1963	0.919	pci/g	J	0.919	70.00%
114815	Thorium-228	1959	0.811	pci/g	J	0.811	60.00%
114743	Thorium-228	1961	0.78	pci/g	-	0.78	50.00%
114859	Thorium-228	1956	0.71	pci/g	J	0.71	40.00%
008439	Thorium-228	1039	0.7	pci/g	J	0.7	30.00%
114737	Thorium-228	1960	0.54	pci/g	-	0.54	20.00%
114607	Thorium-228	1962	0.536	pci/g	J	0.536	10.00%
114766	Thorium-228	1963	0.48	pci/g	J	0.48	0.00%

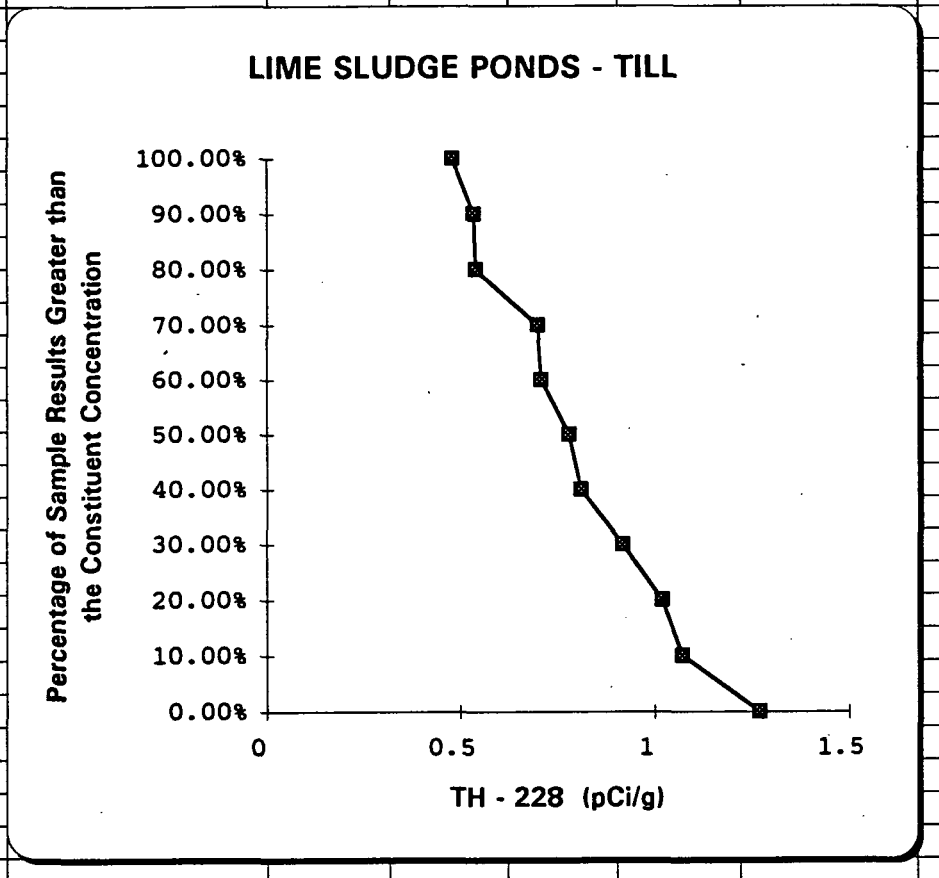


TABLE A.3-15
LIME SLUDGE PONDS - TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114737	Thorium-230	1960	4.51	pci/g	-	4.51	100.00%
114607	Thorium-230	1962	2.47	pci/g	-	2.47	90.00%
114838	Thorium-230	1957	1.51	pci/g	J	1.51	80.00%
008439	Thorium-230	1039	1.5	pci/g	-	1.5	70.00%
114823	Thorium-230	1958	1.35	pci/g	J	1.35	60.00%
114874	Thorium-230	1963	1.34	pci/g	J	1.34	50.00%
114814	Thorium-230	1959	1.28	pci/g	J	1.28	40.00%
114859	Thorium-230	1956	1.24	pci/g	J	1.24	30.00%
114815	Thorium-230	1959	0.857	pci/g	J	0.857	20.00%
114743	Thorium-230	1961	1.12	pci/g	U	0.56	10.00%
114766	Thorium-230	1963	0.48	pci/g	J	0.48	0.00%

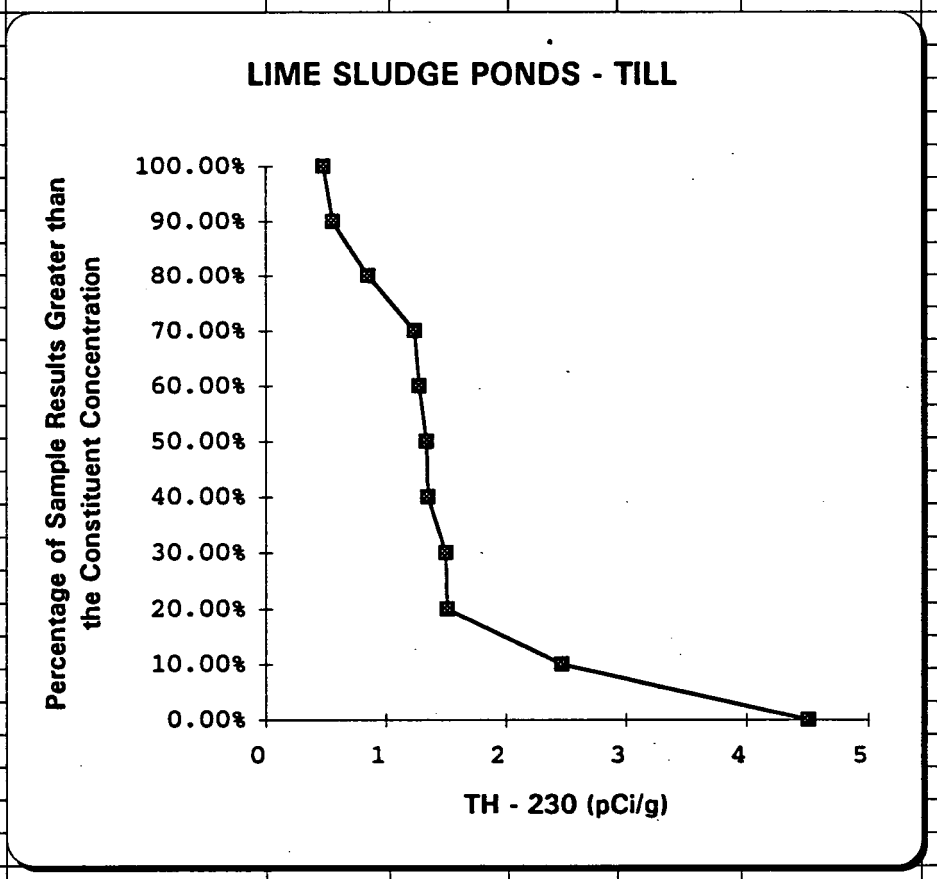


TABLE A.3-15
LIME SLUDGE PONDS - TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114814	Thorium-232	1959	1.26	pci/g	J	1.26	100.00%
114823	Thorium-232	1958	1.21	pci/g	J	1.21	90.00%
114838	Thorium-232	1957	1.12	pci/g	J	1.12	80.00%
114859	Thorium-232	1956	1	pci/g	J	1	70.00%
114874	Thorium-232	1963	0.939	pci/g	J	0.939	60.00%
008439	Thorium-232	1039	0.9	pci/g	-	0.9	50.00%
114743	Thorium-232	1961	0.86	pci/g	-	0.86	40.00%
114815	Thorium-232	1959	0.629	pci/g	J	0.629	30.00%
114766	Thorium-232	1963	0.43	pci/g	J	0.43	20.00%
114737	Thorium-232	1960	0.36	pci/g	-	0.36	10.00%
114607	Thorium-232	1962	0.335	pci/g	J	0.335	0.00%

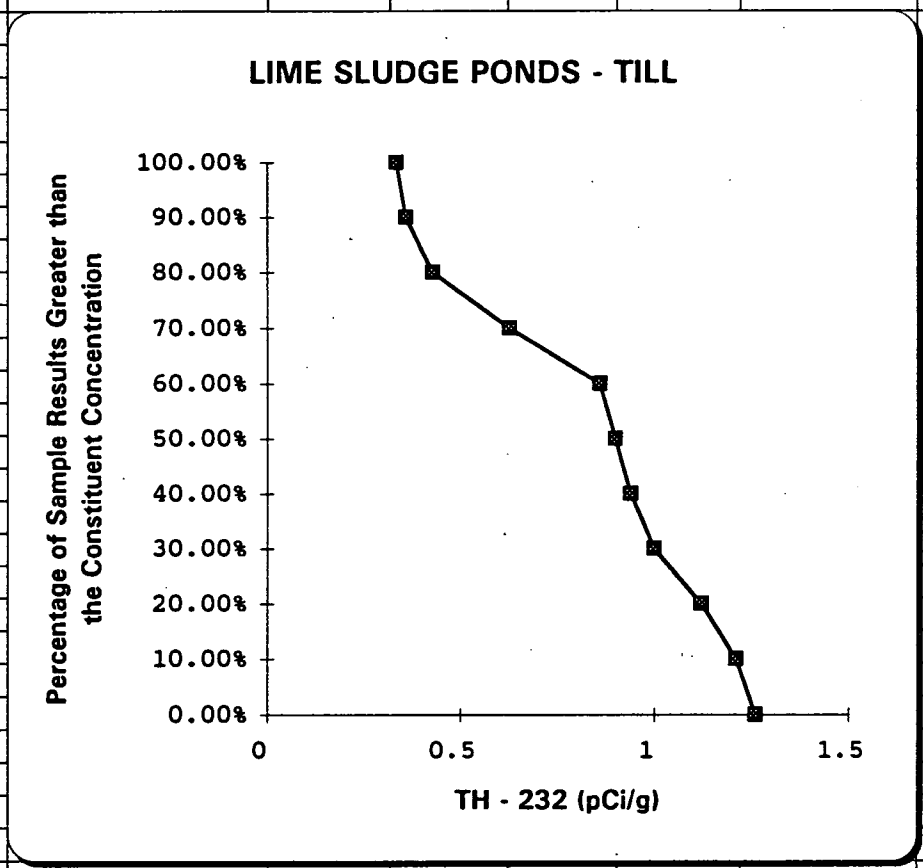


TABLE A.3-15
LIME SLUDGE PONDS - TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114743	Uranium, Total	1961	14.3	mg/kg	-	14.3	100.00%
114859	Uranium, Total	1956	13.7	mg/kg	J	13.7	88.88%
114823	Uranium, Total	1958	13.1	mg/kg	-	13.1	77.77%
114737	Uranium, Total	1960	12.3	mg/kg	-	12.3	55.55%
114814	Uranium, Total	1959	12.3	mg/kg	-	12.3	55.55%
114815	Uranium, Total	1959	11.3	mg/kg	-	11.3	44.44%
114838	Uranium, Total	1957	11.1	mg/kg	J	11.1	33.33%
114766	Uranium, Total	1963	8.61	mg/kg	-	8.61	22.22%
114874	Uranium, Total	1963	4.01	mg/kg	-	4.01	11.11%
114607	Uranium, Total	1962	2.17	mg/kg	-	2.17	0.00%

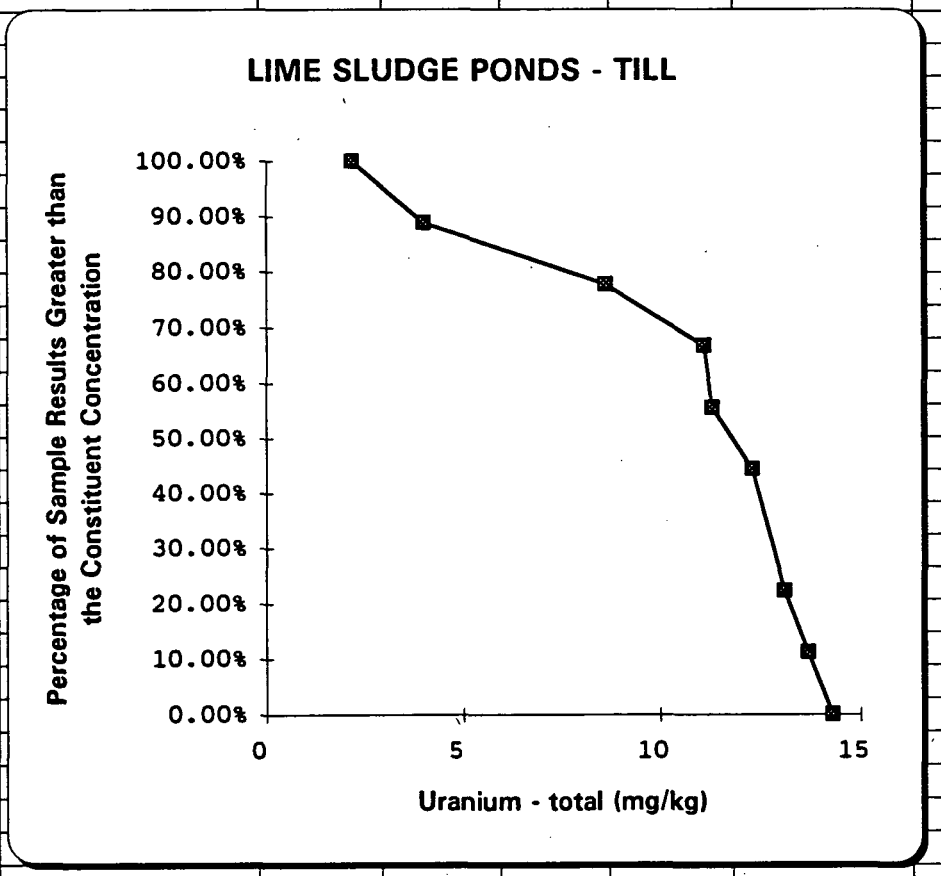


TABLE A.3-15
LIME SLUDGE PONDS - TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114823	Uranium-234	1958	1.29	pci/g	-	1.29	100.00%
114838	Uranium-234	1957	1.15	pci/g	J	1.15	90.00%
114815	Uranium-234	1959	1.14	pci/g	-	1.14	80.00%
114814	Uranium-234	1959	1.08	pci/g	-	1.08	70.00%
114743	Uranium-234	1961	1.05	pci/g	-	1.05	60.00%
114874	Uranium-234	1963	1.01	pci/g	-	1.01	50.00%
114859	Uranium-234	1956	0.89	pci/g	J	0.89	40.00%
008439	Uranium-234	1039	0.8	pci/g	J	0.8	30.00%
114737	Uranium-234	1960	0.78	pci/g	-	0.78	20.00%
114607	Uranium-234	1962	0.71	pci/g	-	0.71	10.00%
114766	Uranium-234	1963	0.62	pci/g	-	0.62	0.00%

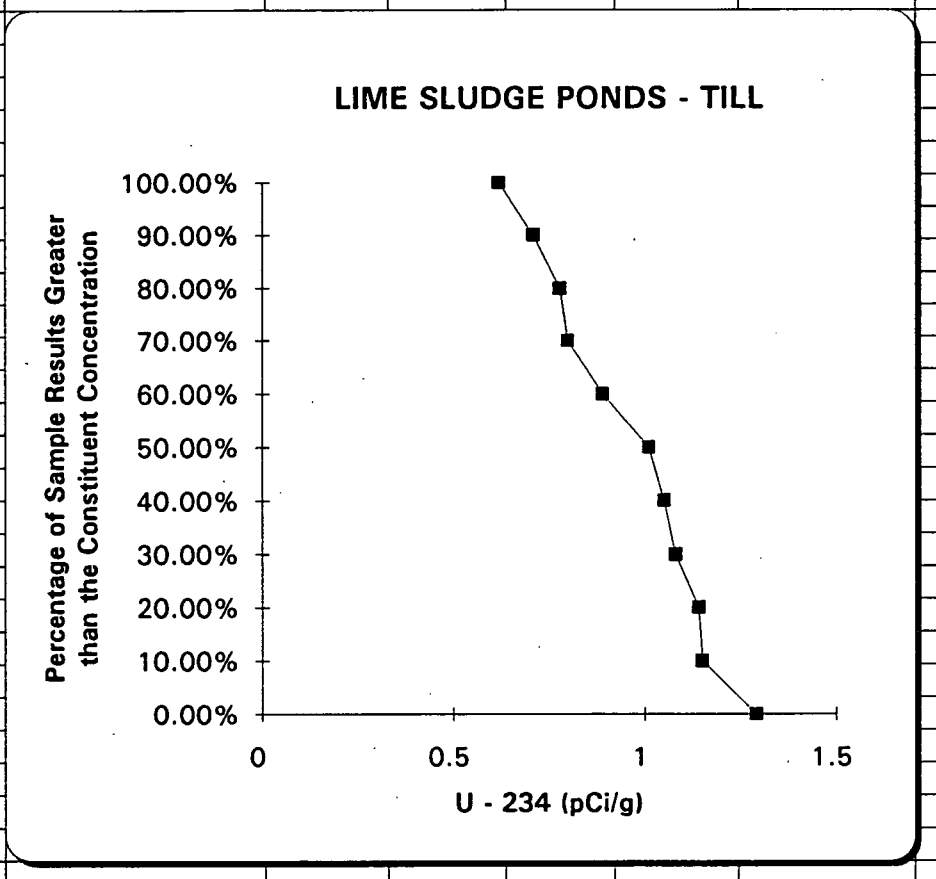


TABLE A.3-15
LIME SLUDGE PONDS - TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
008439	Uranium-235/236	1039	0.6	pci/g	UJ	0.3	100.00%
114814	Uranium-235/236	1959	0.117	pci/g	J	0.117	90.00%
114743	Uranium-235/236	1961	0.08	pci/g	J	0.08	80.00%
114823	Uranium-235/236	1958	0.079	pci/g	J	0.079	70.00%
114815	Uranium-235/236	1959	0.068	pci/g	J	0.068	60.00%
114607	Uranium-235/236	1962	0.066	pci/g	J	0.066	50.00%
114859	Uranium-235/236	1956	0.06	pci/g	J	0.06	40.00%
114838	Uranium-235/236	1957	0.057	pci/g	J	0.057	30.00%
114874	Uranium-235/236	1963	0.036	pci/g	J	0.036	20.00%
114766	Uranium-235/236	1963	0.03	pci/g	J	0.03	10.00%
114737	Uranium-235/236	1960	0.04	pci/g	UJ	0.02	0.00%

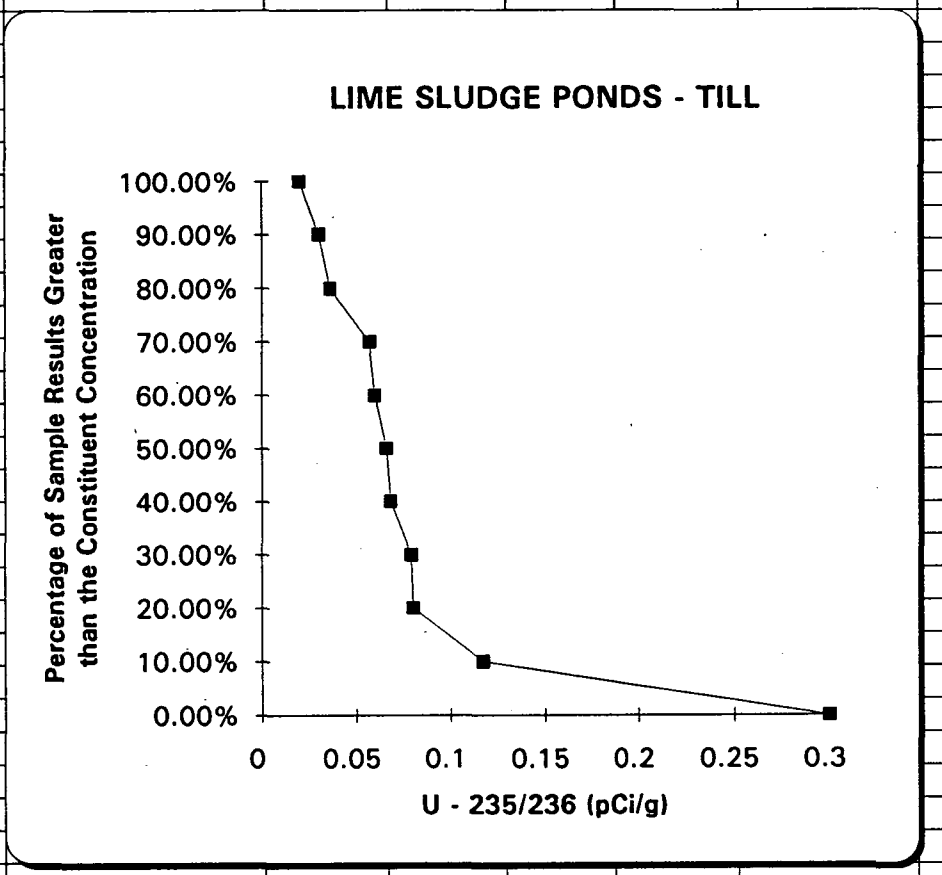


TABLE A.3-15
LIME SLUDGE PONDS - TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114823	Uranium-238	1958	1.37	pci/g	-	1.37	100.00%
114743	Uranium-238	1961	1.17	pci/g	-	1.17	90.00%
114814	Uranium-238	1959	1.15	pci/g	-	1.15	70.00%
114815	Uranium-238	1959	1.15	pci/g	-	1.15	70.00%
114838	Uranium-238	1957	1.14	pci/g	J	1.14	60.00%
114874	Uranium-238	1963	1.02	pci/g	-	1.02	50.00%
114859	Uranium-238	1956	0.97	pci/g	J	0.97	40.00%
114607	Uranium-238	1962	0.732	pci/g	-	0.732	30.00%
008439	Uranium-238	1039	0.7	pci/g	J	0.7	20.00%
114737	Uranium-238	1960	0.66	pci/g	-	0.66	10.00%
114766	Uranium-238	1963	0.59	pci/g	J	0.59	0.00%

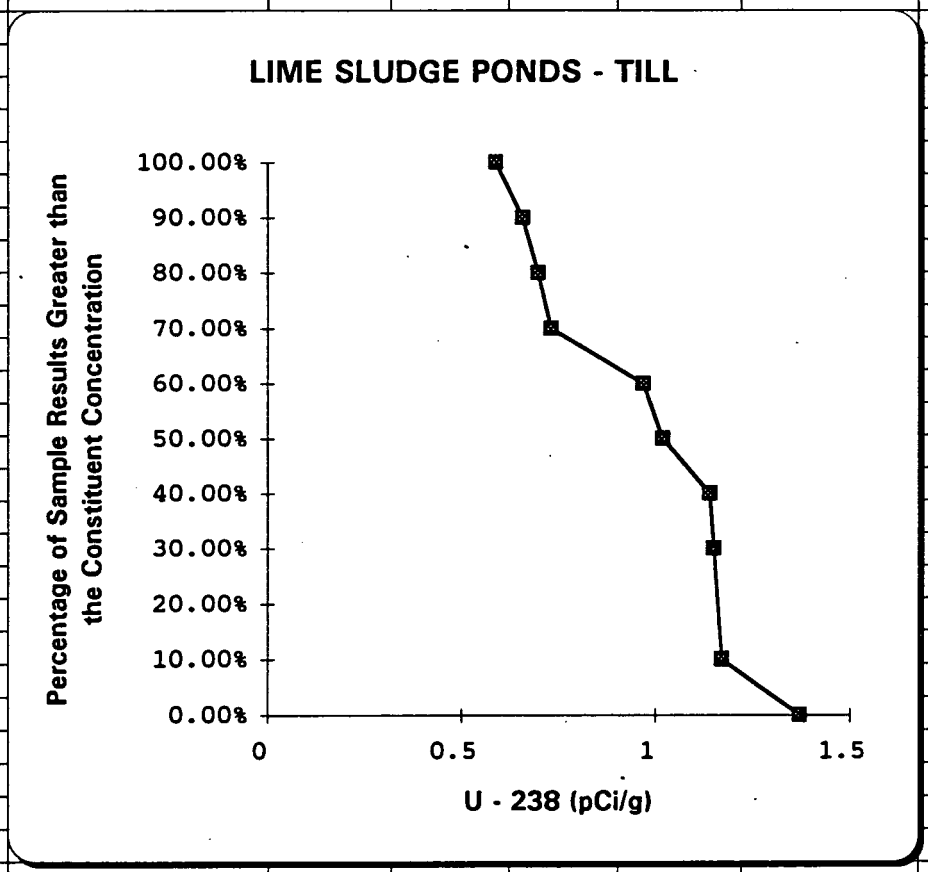


TABLE A.3-16
LIME SLUDGE PONDS - TILL (outside battery limits)

Sample	Parameter	Location	Units	Qualifier	Adjusted Result
008869	Cesium-137	2042	pci/g	UJ	0.1
008869	Neptunium-237	2042	pci/g	UJ	0.3
008869	Radium-226	2042	pci/g	J	1
008869	Radium-228	2042	pci/g	J	1.2
008869	Technetium-99	2042	pci/g	UJ	0.45
008869	Thorium-228	2042	pci/g	J	1
008869	Thorium-230	2042	pci/g	J	2.3
008869	Thorium-232	2042	pci/g	J	1.3
008869	Uranium-234	2042	pci/g	-	0.8
008869	Uranium-235/236	2042	pci/g	U	0.3
008869	Uranium-238	2042	pci/g	-	0.9

TABLE A.3-17
LIME SLUDGE PONDS - K65

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114767	Arsenic		9	mg/kg	J	9	100.00%
114510	Arsenic	LSP-SB-03	8.8	mg/kg	-	8.8	87.50%
114776	Arsenic		8.5	mg/kg	-	8.5	62.50%
114469	Arsenic	LSP-SS-03	8.5	mg/kg	J	8.5	62.50%
114476	Arsenic	LSP-SS-04	7.9	mg/kg	J	7.9	50.00%
114467	Arsenic	LSP-SS-03	7.5	mg/kg	J	7.5	37.50%
114474	Arsenic	LSP-SS-04	7.1	mg/kg	J	7.1	25.00%
114591	Arsenic		6	mg/kg	-	6	12.50%
114589	Arsenic		5.8	mg/kg	-	5.8	0.00%

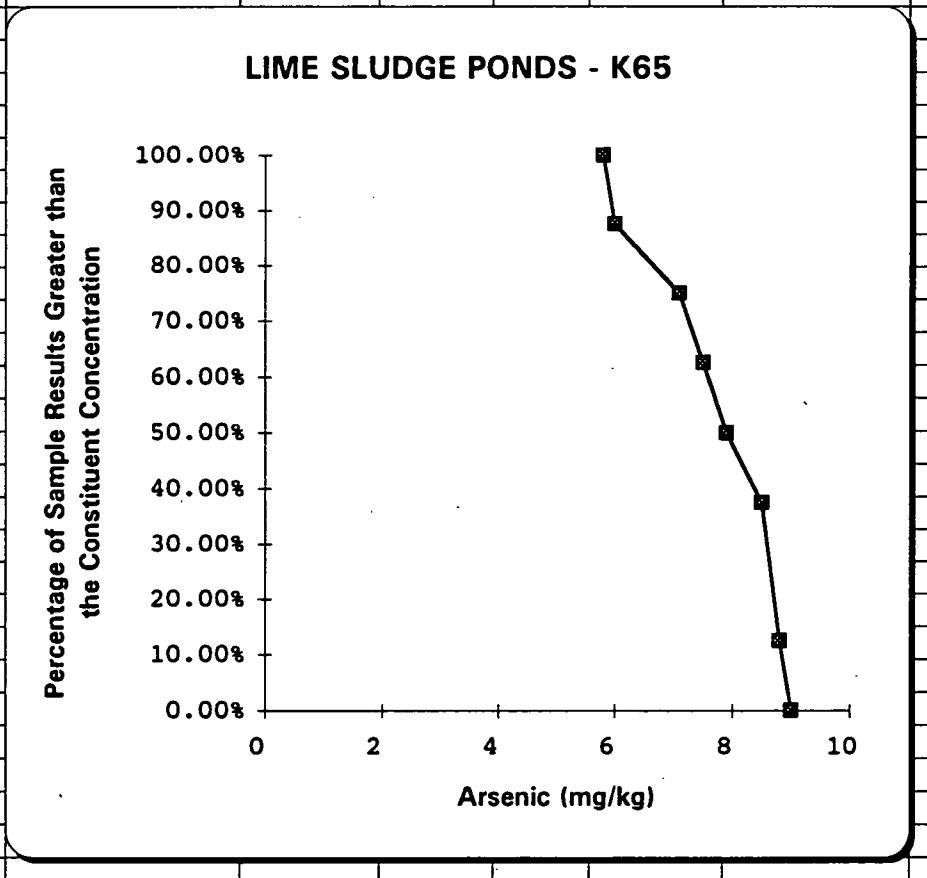


TABLE A.3-17
LIME SLUDGE PONDS - K65

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114467	Cesium-137	LSP-SS-03	0.21	pci/g	-	0.21	100.00%
114474	Cesium-137	LSP-SS-04	0.192	pci/g	J	0.192	87.50%
114589	Cesium-137		0.18	pci/g	J	0.18	75.00%
114469	Cesium-137	LSP-SS-03	0.17	pci/g	J	0.17	62.50%
114591	Cesium-137		0.12	pci/g	J	0.12	50.00%
114767	Cesium-137		0.113	pci/g	J	0.113	37.50%
114510	Cesium-137	LSP-SB-03	0.094	pci/g	J	0.094	25.00%
114776	Cesium-137		0.092	pci/g	J	0.092	12.50%
114476	Cesium-137	LSP-SS-04	0.086	pci/g	UJ	0.043	0.00%

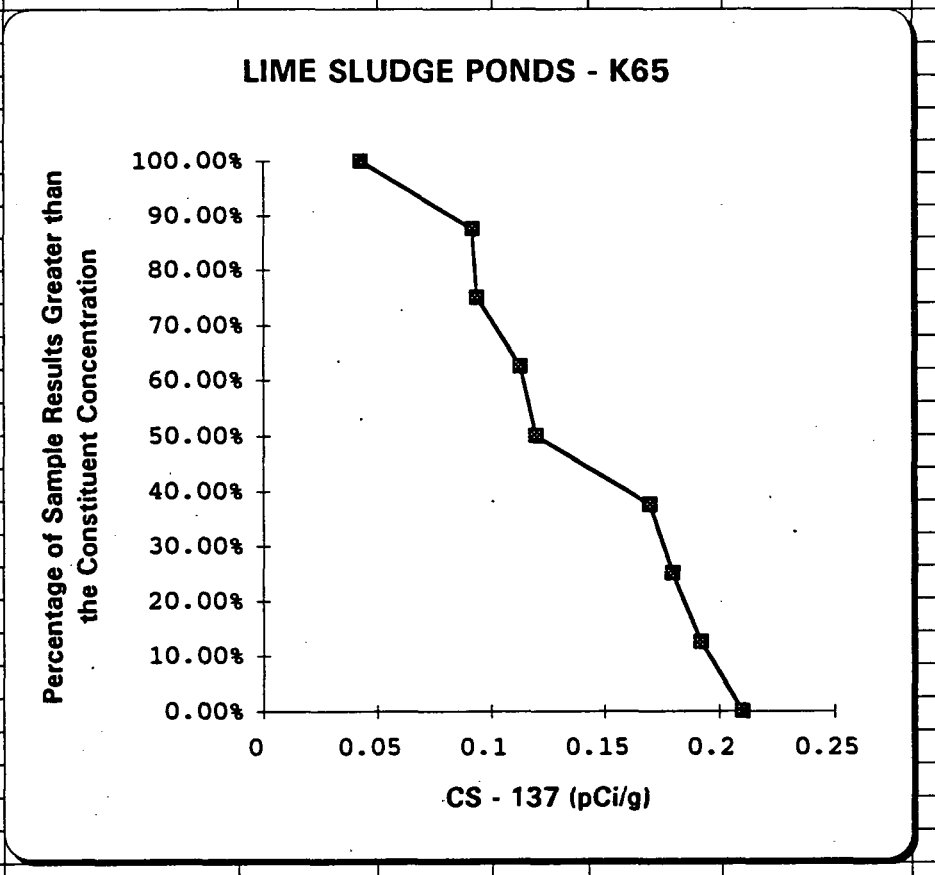


TABLE A.3-17
LIME SLUDGE PONDS - K65

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114776	Neptunium-237		0.305	pci/g	N	0.305	100.00%
114591	Neptunium-237		0.21	pci/g	N	0.21	87.50%
114467	Neptunium-237	LSP-SS-03	0.16	pci/g	N	0.16	62.50%
114589	Neptunium-237		0.16	pci/g	N	0.16	62.50%
114767	Neptunium-237		0.103	pci/g	N	0.103	50.00%
114469	Neptunium-237	LSP-SS-03	0.08	pci/g	N	0.08	37.50%
114510	Neptunium-237	LSP-SB-03	0.044	pci/g	N	0.044	25.00%
114474	Neptunium-237	LSP-SS-04	0.041	pci/g	N	0.041	12.50%
114476	Neptunium-237	LSP-SS-04	0.03	pci/g	N	0.03	0.00%

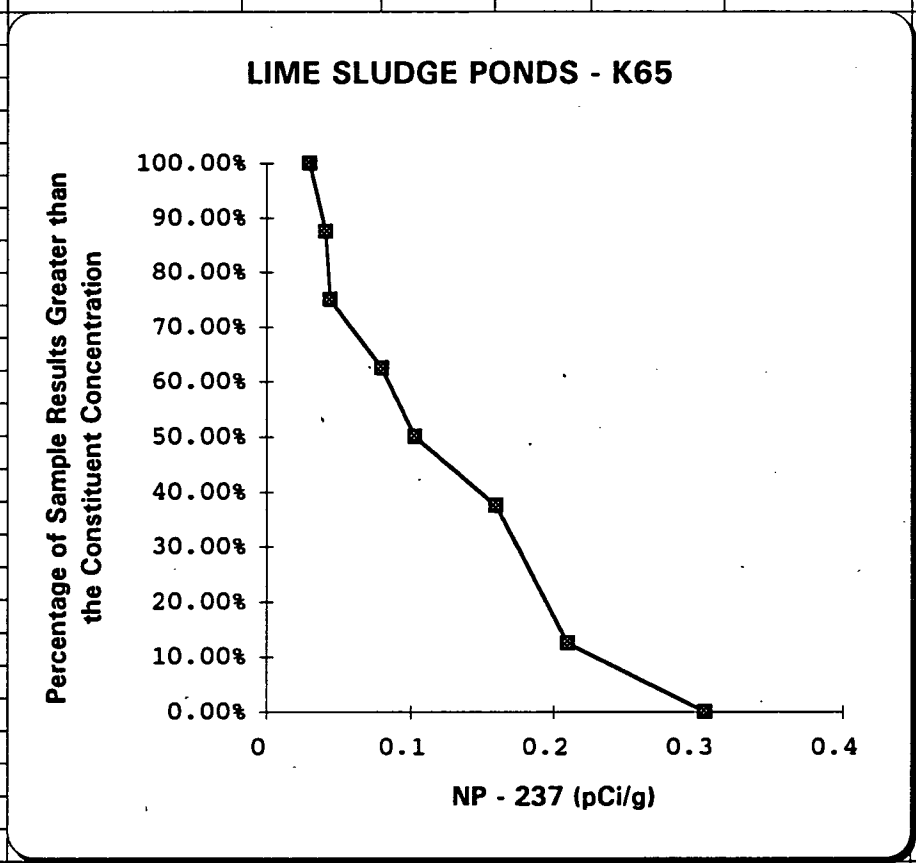


TABLE A.3-17
LIME SLUDGE PONDS - K65

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114767	Radium-226		5.93	pci/g	-	5.93	100.00%
114591	Radium-226		3.48	pci/g	-	3.48	87.50%
114589	Radium-226		3.15	pci/g	-	3.15	75.00%
114776	Radium-226		2.32	pci/g	-	2.32	62.50%
114474	Radium-226	LSP-SS-04	1.23	pci/g	J	1.23	50.00%
114467	Radium-226	LSP-SS-03	1.08	pci/g	J	1.08	25.00%
114469	Radium-226	LSP-SS-03	1.08	pci/g	J	1.08	25.00%
114510	Radium-226	LSP-SB-03	1.06	pci/g	-	1.06	0.00%
114476	Radium-226	LSP-SS-04	1.06	pci/g	J	1.06	0.00%

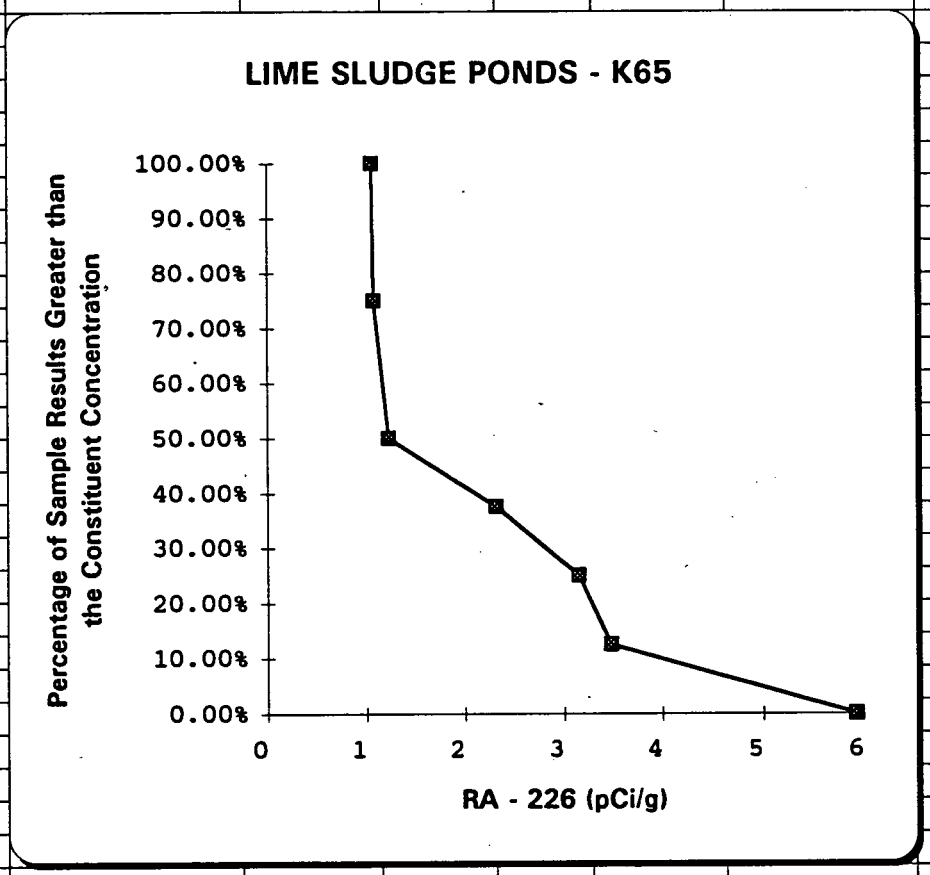


TABLE A.3-17
LIME SLUDGE PONDS - K65

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114589	Radium-228		2	pci/g	-	2	100.00%
114591	Radium-228		1.8	pci/g	-	1.8	87.50%
114776	Radium-228		1.72	pci/g	-	1.72	75.00%
114467	Radium-228	LSP-SS-03	1.42	pci/g	-	1.42	62.50%
114474	Radium-228	LSP-SS-04	1.35	pci/g	-	1.35	50.00%
114469	Radium-228	LSP-SS-03	1.33	pci/g	-	1.33	37.50%
114510	Radium-228	LSP-SB-03	1.21	pci/g	-	1.21	25.00%
114476	Radium-228	LSP-SS-04	1.12	pci/g	-	1.12	12.50%
114767	Radium-228		1.02	pci/g	-	1.02	0.00%

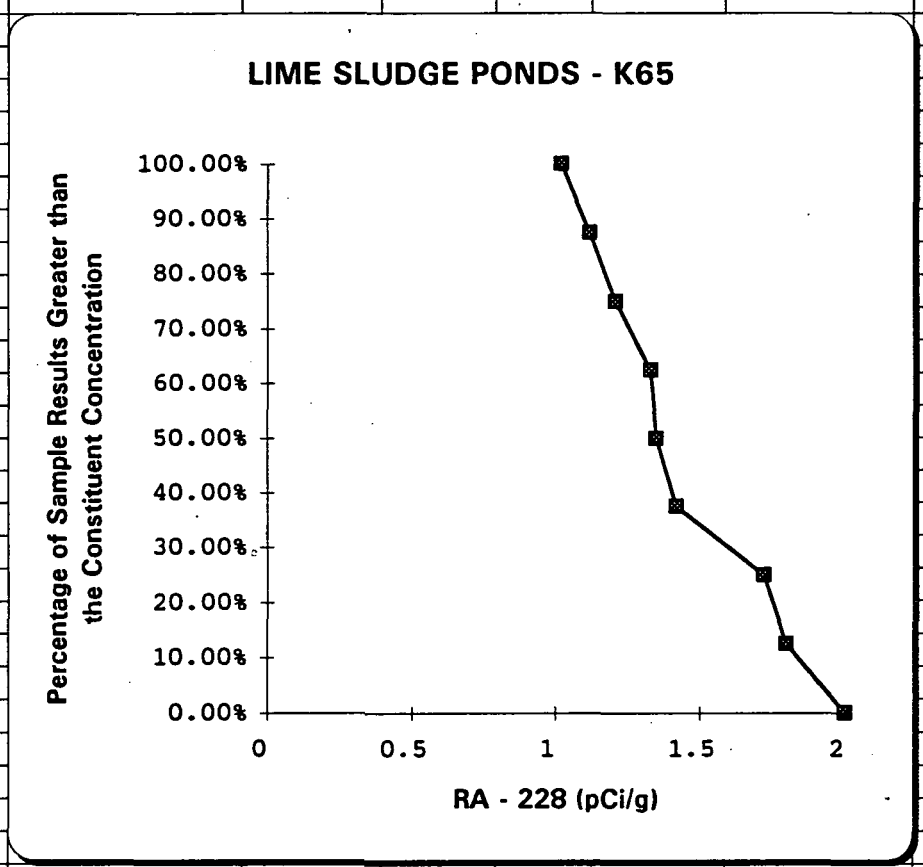


TABLE A.3-17
LIME SLUDGE PONDS - K65

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114510	Strontium-90	LSP-SB-03	0.841	pci/g	J	0.841	100.00%
114767	Strontium-90		0.268	pci/g	J	0.268	87.50%
114474	Strontium-90	LSP-SS-04	0.419	pci/g	UJ	0.2095	75.00%
114476	Strontium-90	LSP-SS-04	0.417	pci/g	UJ	0.2085	62.50%
114469	Strontium-90	LSP-SS-03	0.397	pci/g	UJ	0.1985	50.00%
114467	Strontium-90	LSP-SS-03	0.235	pci/g	UJ	0.1175	37.50%
114589	Strontium-90		0.217	pci/g	UJ	0.1085	25.00%
114591	Strontium-90		0.21	pci/g	UJ	0.105	12.50%
114776	Strontium-90		0.16	pci/g	UJ	0.08	.00%

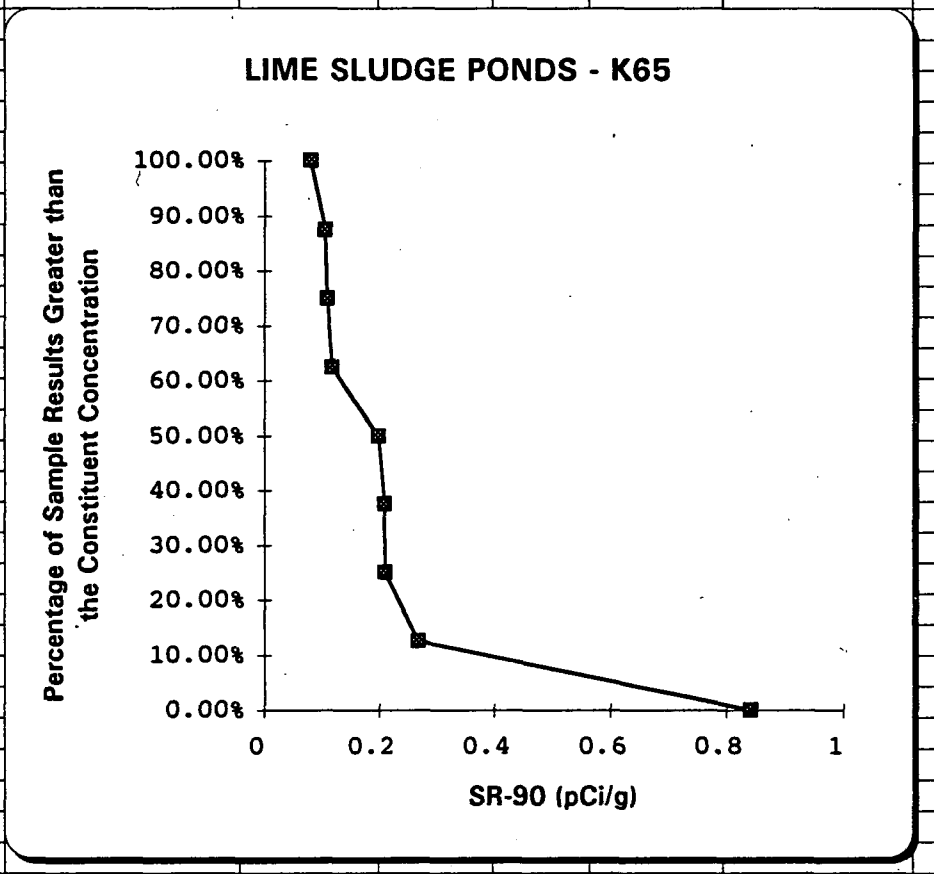


TABLE A.3-17
LIME SLUDGE PONDS - K65

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114591	Technetium-99		1.79	pci/g	J	1.79	100.00%
114589	Technetium-99		1.05	pci/g	J	1.05	87.50%
114776	Technetium-99		0.45	pci/g	UJ	0.225	75.00%
114474	Technetium-99	LSP-SS-04	0.403	pci/g	UJ	0.2015	62.50%
114767	Technetium-99		0.387	pci/g	UJ	0.1935	50.00%
114510	Technetium-99	LSP-SB-03	0.355	pci/g	UJ	0.1775	37.50%
114476	Technetium-99	LSP-SS-04	0.352	pci/g	UJ	0.176	25.00%
114467	Technetium-99	LSP-SS-03	0.342	pci/g	UJ	0.171	12.50%
114469	Technetium-99	LSP-SS-03	0.339	pci/g	UJ	0.1695	0.00%

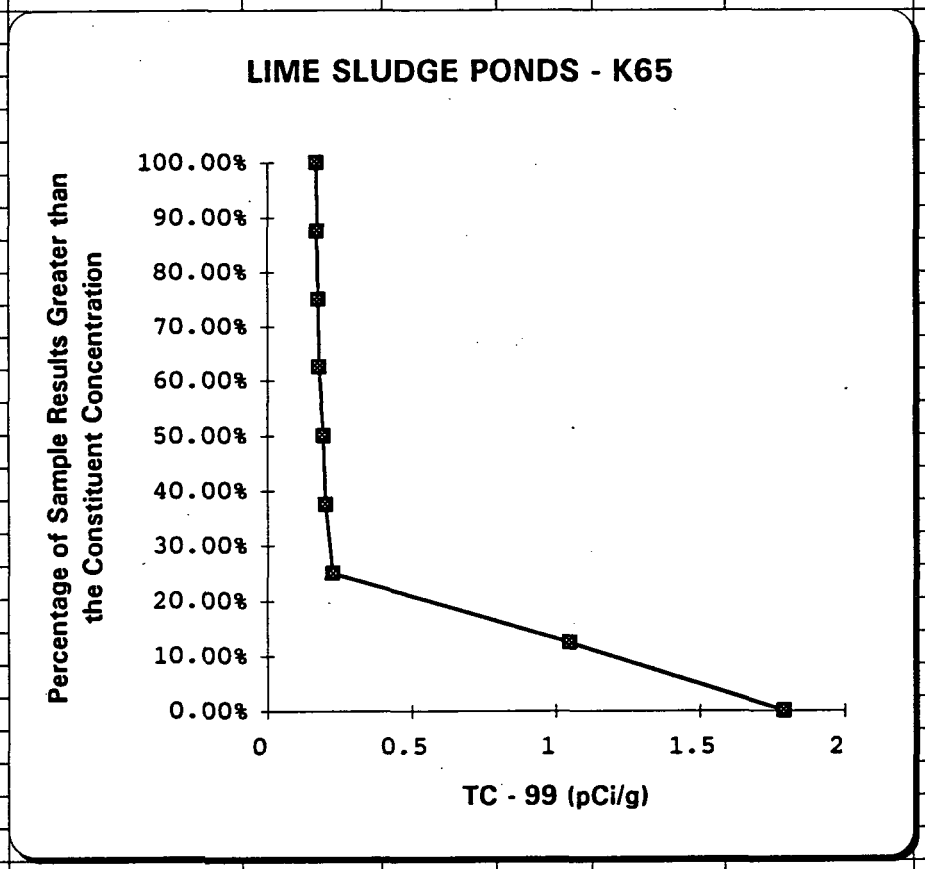


TABLE A.3-17
LIME SLUDGE PONDS - K65

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114589	Thorium-228		1.75	pci/g	-	1.75	87.50%
114776	Thorium-228		1.75	pci/g	J	1.75	87.50%
114591	Thorium-228		1.54	pci/g	-	1.54	75.00%
114767	Thorium-228		1.3	pci/g	-	1.3	62.50%
114469	Thorium-228	LSP-SS-03	1.07	pci/g	-	1.07	50.00%
114510	Thorium-228	LSP-SB-03	1.06	pci/g	J	1.06	37.50%
114474	Thorium-228	LSP-SS-04	0.98	pci/g	-	0.98	25.00%
114476	Thorium-228	LSP-SS-04	0.96	pci/g	-	0.96	12.50%
114467	Thorium-228	LSP-SS-03	0.95	pci/g	-	0.95	0.00%

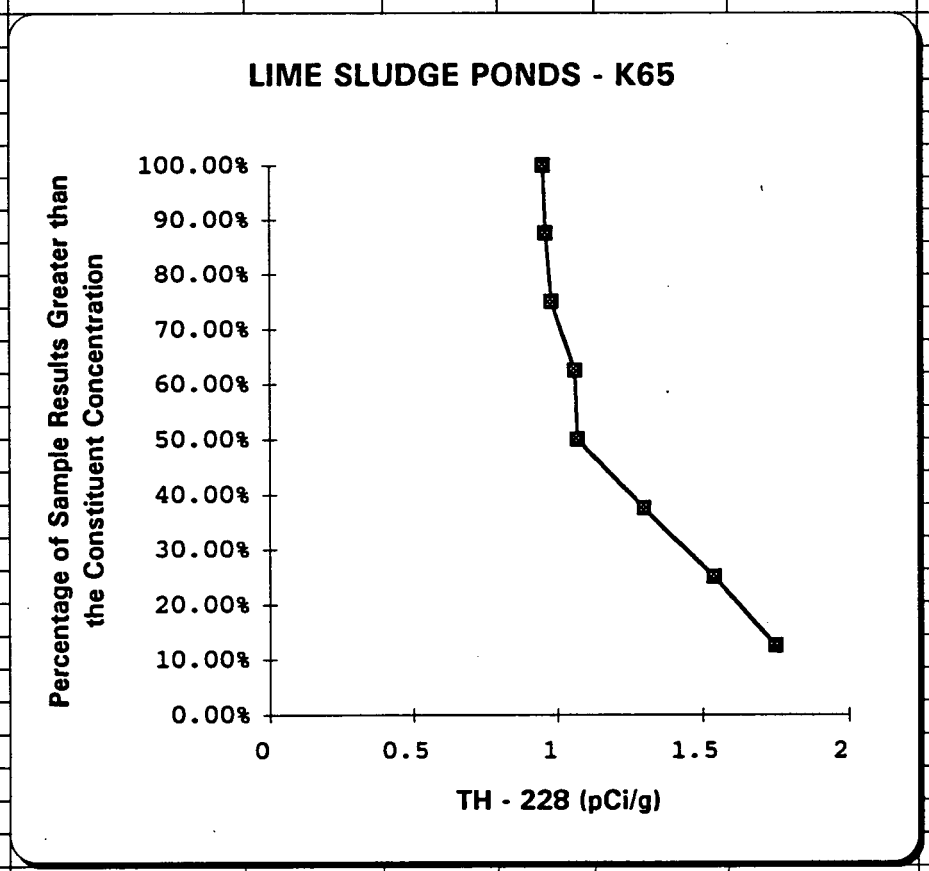


TABLE A.3-17
LIME SLUDGE PONDS - K65

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114776	Thorium-230		20.3	pci/g	J	20.3	100.00%
114591	Thorium-230		16.23	pci/g	-	16.23	87.50%
114589	Thorium-230		9.79	pci/g	-	9.79	75.00%
114767	Thorium-230		5.34	pci/g	-	5.34	62.50%
114474	Thorium-230	LSP-SS-04	3	pci/g	-	3	50.00%
114467	Thorium-230	LSP-SS-03	2.64	pci/g	-	2.64	37.50%
114469	Thorium-230	LSP-SS-03	2	pci/g	-	2	25.00%
114510	Thorium-230	LSP-SB-03	1.94	pci/g	J	1.94	12.50%
114476	Thorium-230	LSP-SS-04	1.8	pci/g	-	1.8	0.00%

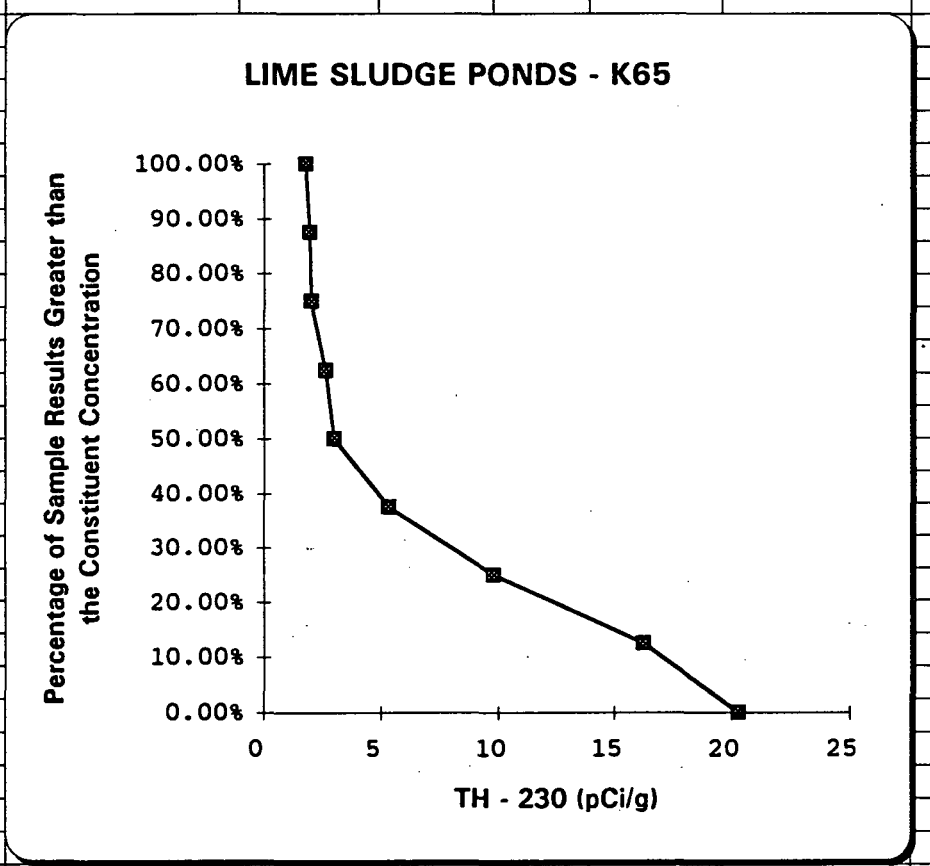


TABLE A.3-17
LIME SLUDGE PONDS - K65

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114776	Thorium-232		1.43	pci/g	J	1.43	100.00%
114467	Thorium-232	LSP-SS-03	1.13	pci/g	-	1.13	87.50%
114510	Thorium-232	LSP-SB-03	1.05	pci/g	J	1.05	75.00%
114469	Thorium-232	LSP-SS-03	1.03	pci/g	-	1.03	62.50%
114474	Thorium-232	LSP-SS-04	1.01	pci/g	-	1.01	50.00%
114589	Thorium-232		0.95	pci/g	-	0.95	37.50%
114476	Thorium-232	LSP-SS-04	0.94	pci/g	-	0.94	25.00%
114591	Thorium-232		0.92	pci/g	-	0.92	12.50%
114767	Thorium-232		0.912	pci/g	-	0.912	0.00%

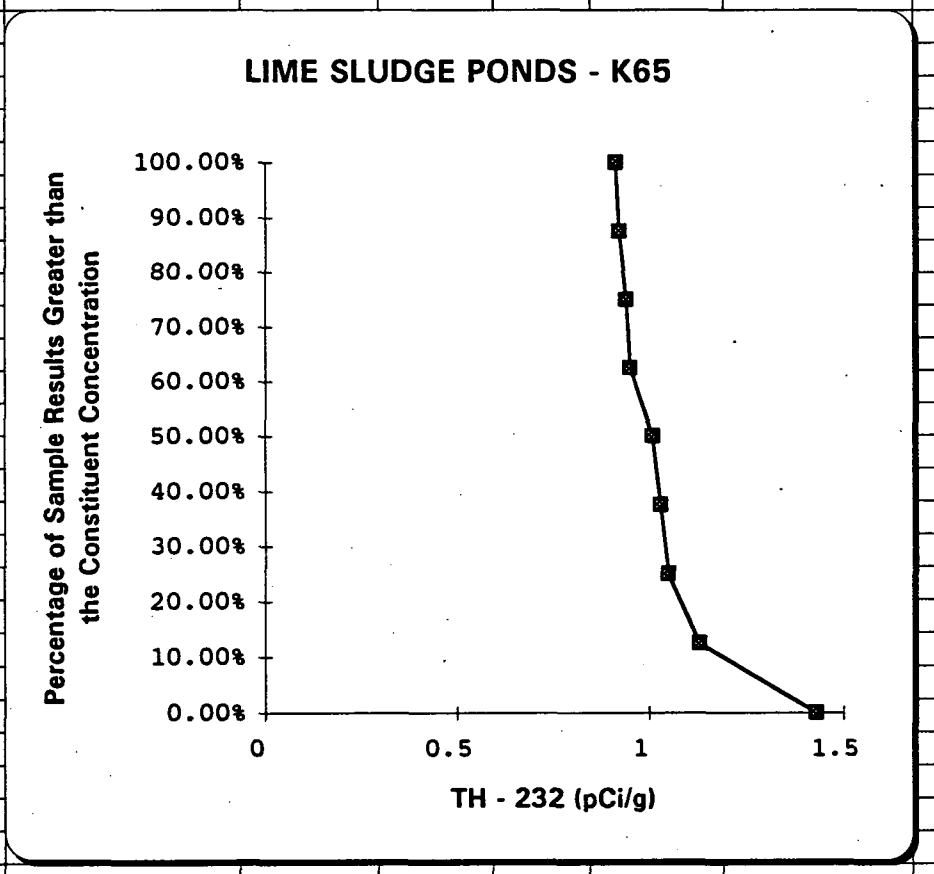


TABLE A.3-17
LIME SLUDGE PONDS - K65

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114589	Uranium, Total		51.6	mg/kg	J	51.6	100.00%
114591	Uranium, Total		45	mg/kg	J	45	87.50%
114467	Uranium, Total	LSP-SS-03	35.8	mg/kg	-	35.8	75.00%
114474	Uranium, Total	LSP-SS-04	28.9	mg/kg	-	28.9	62.50%
114776	Uranium, Total		24.8	mg/kg	J	24.8	50.00%
114469	Uranium, Total	LSP-SS-03	24	mg/kg	-	24	37.50%
114510	Uranium, Total	LSP-SB-03	23.5	mg/kg	-	23.5	25.00%
114476	Uranium, Total	LSP-SS-04	20.7	mg/kg	-	20.7	12.50%
114767	Uranium, Total		11.5	mg/kg	-	11.5	0.00%

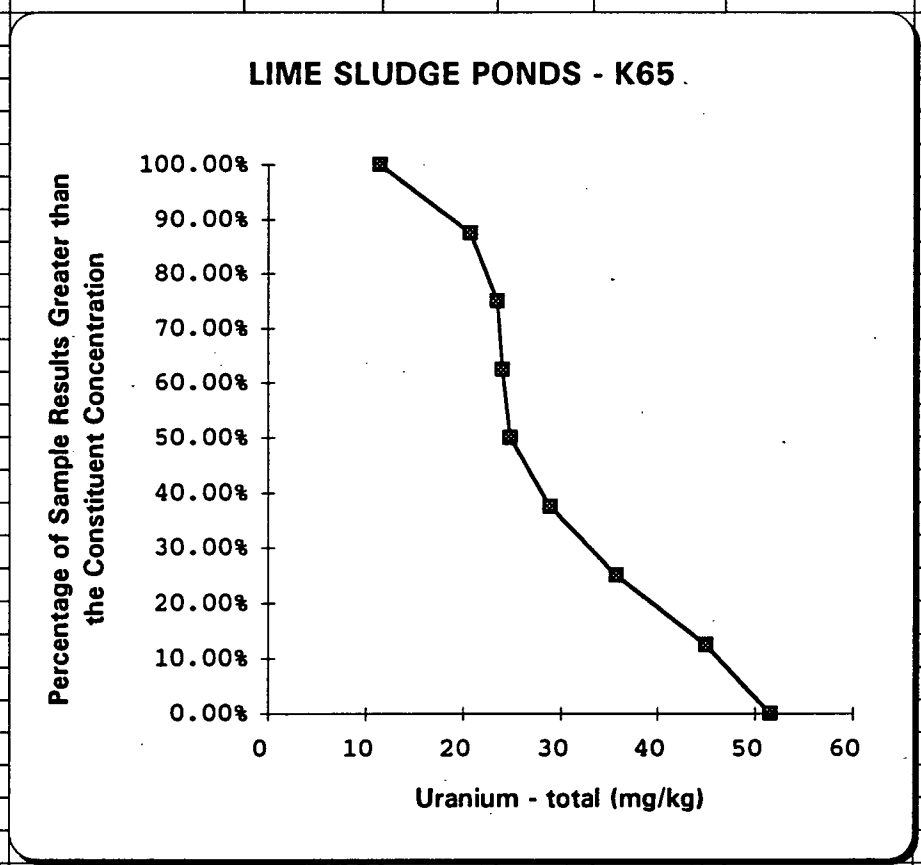


TABLE A.3-17
LIME SLUDGE PONDS - K65

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114589	Uranium-234		19.5	pci/g	-	19.5	100.00%
114591	Uranium-234		13.4	pci/g	-	13.4	87.50%
114467	Uranium-234	LSP-SS-03	8	pci/g	J	8	75.00%
114474	Uranium-234	LSP-SS-04	5.58	pci/g	J	5.58	62.50%
114776	Uranium-234		5.33	pci/g	J	5.33	50.00%
114469	Uranium-234	LSP-SS-03	4.4	pci/g	J	4.4	37.50%
114510	Uranium-234	LSP-SB-03	4.28	pci/g	J	4.28	25.00%
114476	Uranium-234	LSP-SS-04	3.83	pci/g	J	3.83	12.50%
114767	Uranium-234		3.64	pci/g	-	3.64	0.00%

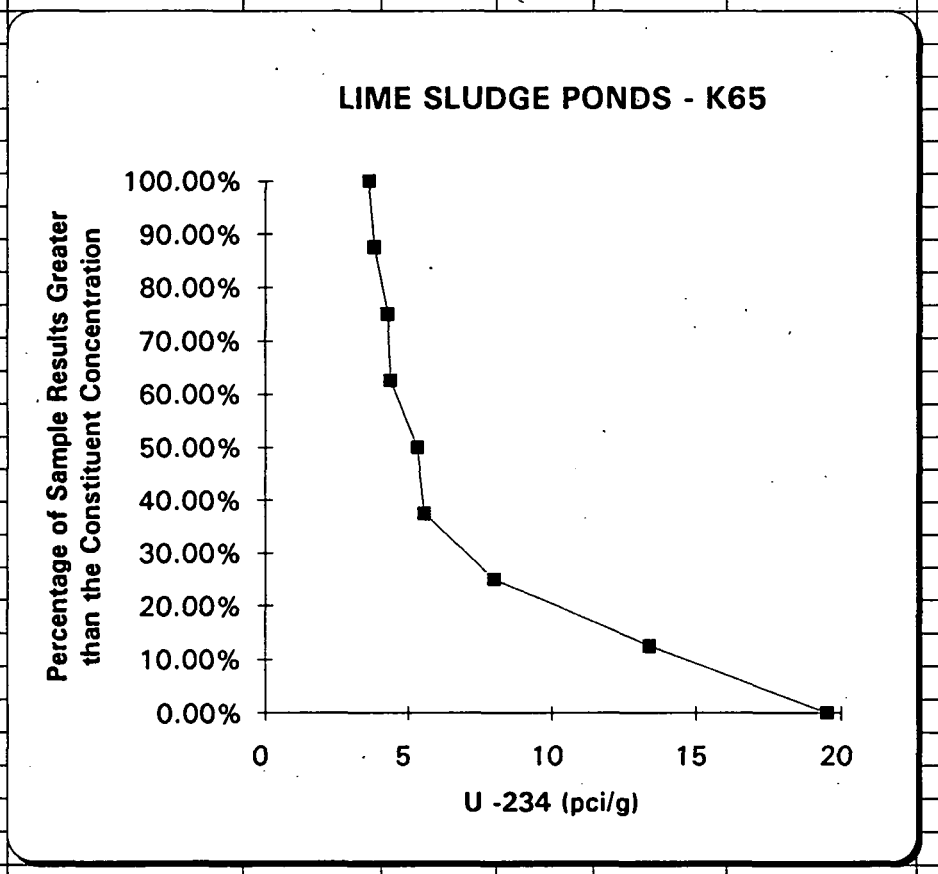


TABLE A.3-17
LIME SLUDGE PONDS - K65

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114589	Uranium-235/236		1.313	pci/g	-	1.313	100.00%
114591	Uranium-235/236		0.77	pci/g	-	0.77	87.50%
114467	Uranium-235/236	LSP-SS-03	0.414	pci/g	J	0.414	75.00%
114474	Uranium-235/236	LSP-SS-04	0.29	pci/g	J	0.29	62.50%
114767	Uranium-235/236		0.277	pci/g	J	0.277	50.00%
114776	Uranium-235/236		0.26	pci/g	J	0.26	37.50%
114476	Uranium-235/236	LSP-SS-04	0.22	pci/g	J	0.22	25.00%
114510	Uranium-235/236	LSP-SB-03	0.204	pci/g	J	0.204	12.50%
114469	Uranium-235/236	LSP-SS-03	0.2	pci/g	J	0.2	0.00%

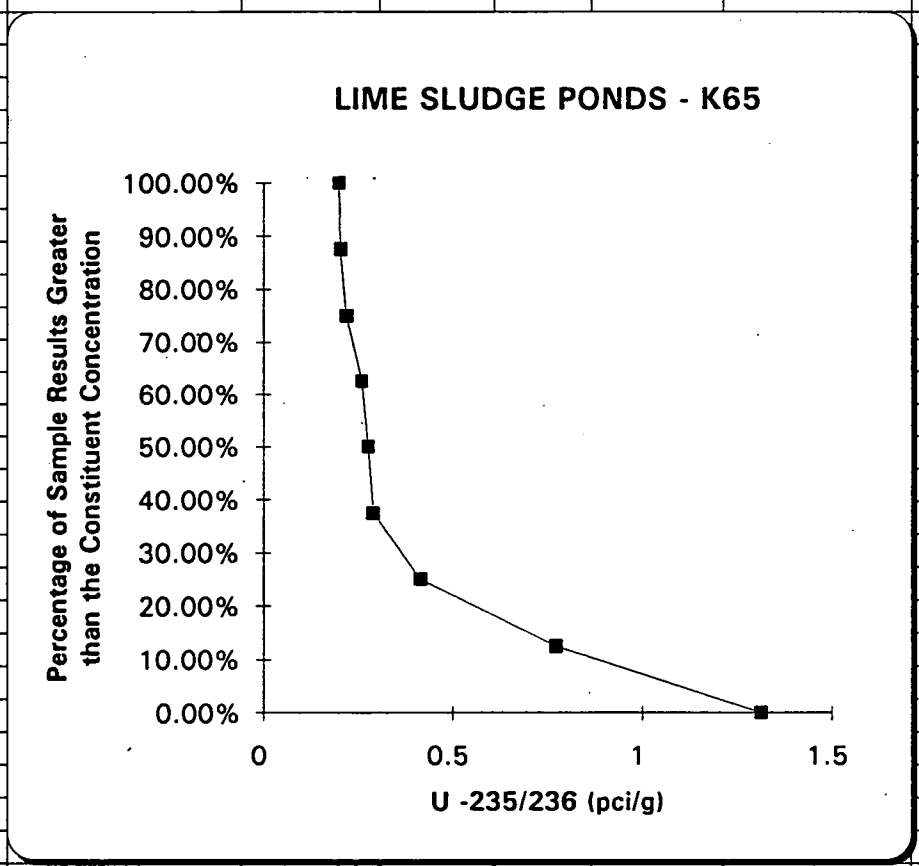


TABLE A.3-17
LIME SLUDGE PONDS - K65

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
114589	Uranium-238		20.4	pci/g	-	20.4	100.00%
114591	Uranium-238		14.8	pci/g	-	14.8	87.50%
114510	Uranium-238	LSP-SB-03	8.75	pci/g	J	8.75	75.00%
114467	Uranium-238	LSP-SS-03	8.49	pci/g	J	8.49	62.50%
114474	Uranium-238	LSP-SS-04	6.54	pci/g	J	6.54	50.00%
114776	Uranium-238		5.5	pci/g	J	5.5	37.50%
114469	Uranium-238	LSP-SS-03	4.69	pci/g	J	4.69	25.00%
114476	Uranium-238	LSP-SS-04	4.52	pci/g	J	4.52	12.50%
114767	Uranium-238		3.91	pci/g	-	3.91	0.00%

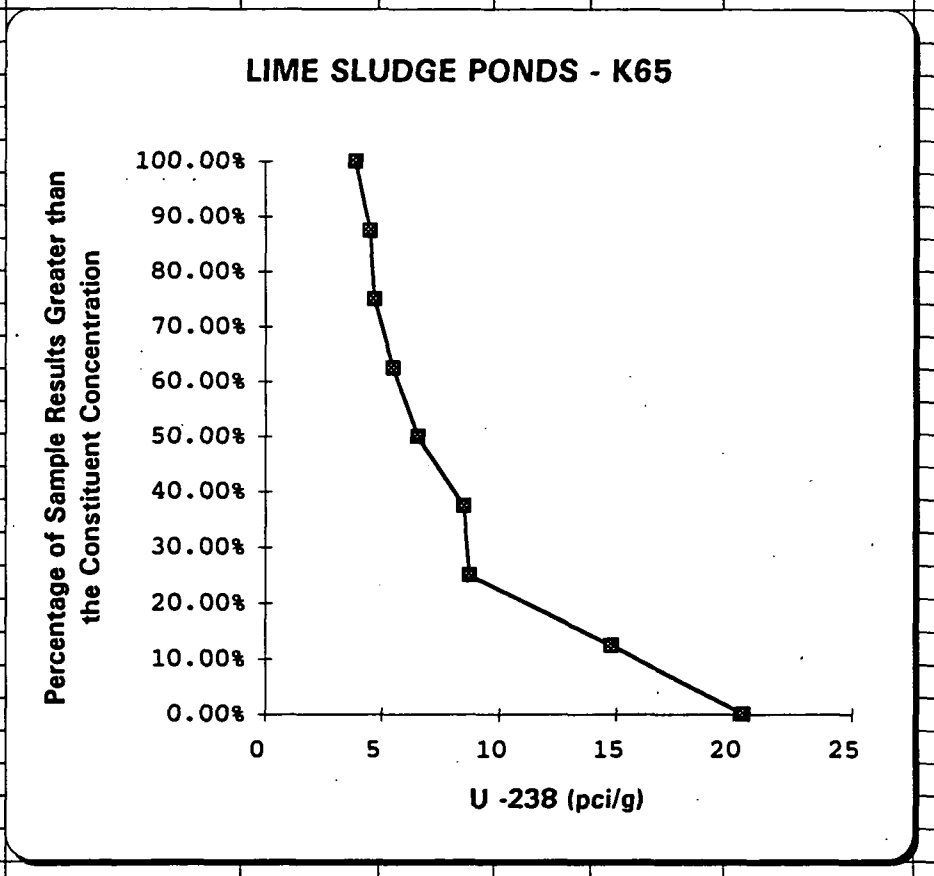


TABLE A.3-18
LIME SLUDGE PONDS -GMA (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
008509	Cesium-137	2042	0.2	pci/g	UJ	0.1
008509	Neptunium-237	2042	0.6	pci/g	UJ	0.3
008509	Radium-226	2042	0.4	pci/g	J	0.4
008509	Radium-228	2042	0.5	pci/g	UJ	0.25
008509	Technetium-99	2042	0.9	pci/g	UJ	0.45
008509	Thorium-228	2042	0.6	pci/g	U	0.3
008509	Thorium-230	2042	1.3	pci/g	J	1.3
008509	Thorium-232	2042	0.6	pci/g	U	0.3
008509	Uranium-234	2042	0.6	pci/g	U	0.3
008509	Uranium-235/236	2042	0.6	pci/g	U	0.3
008509	Uranium-238	2042	0.6	pci/g	U	0.3

TABLE A.3-19
LIME SLUDGE PONDS - PGW (inside battery limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
114784	Arsenic	UNFILTERED	06/11/93	1940	0.0022	mg/l	-
114785	Arsenic	UNFILTERED	06/11/93	1940	0.0054	mg/l	-
114782	Arsenic	UNFILTERED	06/01/93	1937	0.0038	mg/l	J
114617	Arsenic	UNFILTERED	05/11/93	1937	0.001	mg/l	U
003732	Arsenic	FILTERED	11/17/88	1041	0.002	mg/l	U
003490	Arsenic	FILTERED	08/10/88	1041	0.01	mg/l	U
003180	Arsenic	FILTERED	05/11/88	1041	0.2	mg/l	U
116221	Arsenic	FILTERED	05/05/93	1041	0.001	mg/l	U
116220	Arsenic	UNFILTERED	05/05/93	1041	0.0041	mg/l	-
003924	Arsenic	FILTERED	03/01/89	1041	0.003	mg/l	U
003733	Arsenic	FILTERED	11/20/88	1039	0.002	mg/l	UJ
003491	Arsenic	FILTERED	08/10/88	1039	0.01	mg/l	U
003179	Arsenic	FILTERED	05/11/88	1039	0.2	mg/l	U
111990	Arsenic	FILTERED	04/28/93	1039	0.001	mg/l	U
003928	Arsenic	FILTERED	02/05/89	1039	0.002	mg/l	U
114785	Cesium-137	UNFILTERED	06/11/93	1940	11.8	pci/l	UJ
114784	Cesium-137	UNFILTERED	06/11/93	1940	17.8	pci/l	UJ
114782	Cesium-137	UNFILTERED	06/01/93	1937	16	pci/l	UJ
114617	Cesium-137	UNFILTERED	05/11/93	1937	18.7	pci/l	UJ
116221	Cesium-137	FILTERED	05/05/93	1041	15.9	pci/l	UJ
116220	Cesium-137	UNFILTERED	05/05/93	1041	16.4	pci/l	UJ
111990	Cesium-137	FILTERED	04/28/93	1039	16	pci/l	UJ
114785	Neptunium-237	UNFILTERED	06/11/93	1940	0.295	pci/l	U
114784	Neptunium-237	UNFILTERED	06/11/93	1940	0.339	pci/l	N
114782	Neptunium-237	UNFILTERED	06/01/93	1937	0.15	pci/l	U
114617	Neptunium-237	UNFILTERED	05/11/93	1937	0.333	pci/l	U
003732	Neptunium-237	UNFILTERED	11/17/88	1041	1	pci/l	U
003490	Neptunium-237	UNFILTERED	08/10/88	1041	1	pci/l	UJ
003180	Neptunium-237	UNFILTERED	05/11/88	1041	1	pci/l	U
003924	Neptunium-237	UNFILTERED	03/01/89	1041	1	pci/l	U
003733	Neptunium-237	UNFILTERED	11/20/88	1039	0.2	pci/l	UJ
003491	Neptunium-237	UNFILTERED	08/10/88	1039	1	pci/l	UJ
003179	Neptunium-237	UNFILTERED	05/11/88	1039	1	pci/l	U
111990	Neptunium-237	FILTERED	04/28/93	1039	0.198	pci/l	U
003928	Neptunium-237	UNFILTERED	02/05/89	1039	1	pci/l	U
114784	Radium-226	UNFILTERED	06/11/93	1940	0.431	pci/l	U
114785	Radium-226	UNFILTERED	06/11/93	1940	1.21	pci/l	J
114782	Radium-226	UNFILTERED	06/01/93	1937	0.98	pci/l	UJ
114617	Radium-226	UNFILTERED	05/11/93	1937	0.378	pci/l	UJ
003732	Radium-226	UNFILTERED	11/17/88	1041	1	pci/l	U
003490	Radium-226	UNFILTERED	08/10/88	1041	1	pci/l	U
003180	Radium-226	UNFILTERED	05/11/88	1041	1	pci/l	U
116221	Radium-226	FILTERED	05/05/93	1041	0.1	pci/l	UJ
116220	Radium-226	UNFILTERED	05/05/93	1041	0.31	pci/l	J
003924	Radium-226	UNFILTERED	03/01/89	1041	1	pci/l	U
003733	Radium-226	UNFILTERED	11/20/88	1039	0.3	pci/l	J
003491	Radium-226	UNFILTERED	08/10/88	1039	1	pci/l	U
003179	Radium-226	UNFILTERED	05/11/88	1039	1	pci/l	U
111990	Radium-226	FILTERED	04/28/93	1039	0.183	pci/l	UJ
003928	Radium-226	UNFILTERED	02/05/89	1039	1	pci/l	U
114784	Radium-228	UNFILTERED	06/11/93	1940	2.98	pci/l	U

TABLE A.3-19
LIME SLUDGE PONDS - PGW (inside battery limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
114785	Radium-228	UNFILTERED	06/11/93	1940	3.68	pci/l	J
114617	Radium-228	UNFILTERED	05/11/93	1937	2.09	pci/l	UJ
003732	Radium-228	UNFILTERED	11/17/88	1041	3	pci/l	U
003490	Radium-228	UNFILTERED	08/10/88	1041	3	pci/l	U
003180	Radium-228	UNFILTERED	05/11/88	1041	3.8	pci/l	-
116221	Radium-228	FILTERED	05/05/93	1041	1.36	pci/l	UJ
116220	Radium-228	UNFILTERED	05/05/93	1041	1.29	pci/l	UJ
003924	Radium-228	UNFILTERED	03/01/89	1041	3	pci/l	UJ
003733	Radium-228	UNFILTERED	11/20/88	1039	2.3	pci/l	UJ
003491	Radium-228	UNFILTERED	08/10/88	1039	3	pci/l	U
003179	Radium-228	UNFILTERED	05/11/88	1039	3	pci/l	U
111990	Radium-228	FILTERED	04/28/93	1039	2.48	pci/l	UJ
003928	Radium-228	UNFILTERED	02/05/89	1039	3	pci/l	UJ
3928	Strontium-90	*U	2/5/89	1039	5	pci/l	U
3924	Strontium-90	*U	3/1/89	1041	5	pci/l	U
3179	Strontium-90	*U	5/11/88	1039	5	pci/l	U
3180	Strontium-90	*U	5/11/88	1041	5	pci/l	U
3491	Strontium-90	*U	8/10/88	1039	5	pci/l	U
3490	Strontium-90	*U	8/10/88	1041	5	pci/l	U
3732	Strontium-90	*U	11/17/88	1041	5	pci/l	U
3733	Strontium-90	*U	11/20/88	1039	1.2	pci/l	UJ
111990	Strontium-90	FILTERED	4/28/93	1039	0.885	pci/l	U
116221	Strontium-90	FILTERED	5/5/93	1041	0.85	pci/l	UJ
116220	Strontium-90	UNFILTERED	5/5/93	1041	0.87	pci/l	UJ
114617	Strontium-90	UNFILTERED	5/11/93	1937	0.73	pci/l	UJ
114782	Strontium-90	UNFILTERED	6/1/93	1937	0.61	pci/l	UJ
114784	Strontium-90	UNFILTERED	6/11/93	1940	0.758	pci/l	UJ
114785	Strontium-90	UNFILTERED	6/11/93	1940	0.819	pci/l	UJ
114784	Technetium-99	UNFILTERED	06/11/93	1940	9.4	pci/l	UJ
114785	Technetium-99	UNFILTERED	06/11/93	1940	10.93	pci/l	UJ
114782	Technetium-99	UNFILTERED	06/01/93	1937	12.5	pci/l	UJ
114617	Technetium-99	UNFILTERED	05/11/93	1937	9.1	pci/l	UJ
003732	Technetium-99	UNFILTERED	11/17/88	1041	30	pci/l	U
003490	Technetium-99	UNFILTERED	08/10/88	1041	30	pci/l	U
003180	Technetium-99	UNFILTERED	05/11/88	1041	30	pci/l	U
116221	Technetium-99	FILTERED	05/05/93	1041	10.7	pci/l	UJ
116220	Technetium-99	UNFILTERED	05/05/93	1041	11.1	pci/l	UJ
003924	Technetium-99	UNFILTERED	03/01/89	1041	30	pci/l	U
003733	Technetium-99	UNFILTERED	11/20/88	1039	26	pci/l	UJ
003491	Technetium-99	UNFILTERED	08/10/88	1039	30	pci/l	U
003179	Technetium-99	UNFILTERED	05/11/88	1039	30	pci/l	U
111990	Technetium-99	FILTERED	04/28/93	1039	10	pci/l	UJ
003928	Technetium-99	UNFILTERED	02/05/89	1039	30	pci/l	UJ
114784	Thorium-228	UNFILTERED	06/11/93	1940	0.227	pci/l	UJ
114785	Thorium-228	UNFILTERED	06/11/93	1940	1.36	pci/l	-
114782	Thorium-228	UNFILTERED	06/01/93	1937	2.37	pci/l	-
114617	Thorium-228	UNFILTERED	05/11/93	1937	0.294	pci/l	UJ
003732	Thorium-228	UNFILTERED	11/17/88	1041	1	pci/l	U
003490	Thorium-228	UNFILTERED	08/10/88	1041	1	pci/l	UJ
003180	Thorium-228	UNFILTERED	05/11/88	1041	1.2	pci/l	-
116221	Thorium-228	FILTERED	05/05/93	1041	1.03	pci/l	UJ

TABLE A.3-19
LIME SLUDGE PONDS - PGW (inside battery limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
116220	Thorium-228	UNFILTERED	05/05/93	1041	0.78	pci/l	J
003924	Thorium-228	UNFILTERED	03/01/89	1041	1.1	pci/l	J
003733	Thorium-228	UNFILTERED	11/20/88	1039	0.7	pci/l	UJ
003491	Thorium-228	UNFILTERED	08/10/88	1039	1	pci/l	UJ
003179	Thorium-228	UNFILTERED	05/11/88	1039	1	pci/l	U
111990	Thorium-228	FILTERED	04/28/93	1039	0.209	pci/l	UJ
003928	Thorium-228	UNFILTERED	02/05/89	1039	1	pci/l	U
114784	Thorium-230	UNFILTERED	06/11/93	1940	0.123	pci/l	UJ
114785	Thorium-230	UNFILTERED	06/11/93	1940	1.29	pci/l	-
114782	Thorium-230	UNFILTERED	06/01/93	1937	2.74	pci/l	J
114617	Thorium-230	UNFILTERED	05/11/93	1937	3.04	pci/l	-
003732	Thorium-230	UNFILTERED	11/17/88	1041	1	pci/l	U
003490	Thorium-230	UNFILTERED	08/10/88	1041	1	pci/l	UJ
003180	Thorium-230	UNFILTERED	05/11/88	1041	1.6	pci/l	-
116221	Thorium-230	FILTERED	05/05/93	1041	0.41	pci/l	UJ
116220	Thorium-230	UNFILTERED	05/05/93	1041	1.37	pci/l	-
003924	Thorium-230	UNFILTERED	03/01/89	1041	1.4	pci/l	-
003733	Thorium-230	UNFILTERED	11/20/88	1039	0.7	pci/l	UJ
003491	Thorium-230	UNFILTERED	08/10/88	1039	1	pci/l	UJ
003179	Thorium-230	UNFILTERED	05/11/88	1039	1	pci/l	U
111990	Thorium-230	FILTERED	04/28/93	1039	0.251	pci/l	J
003928	Thorium-230	UNFILTERED	02/05/89	1039	1.4	pci/l	-
114784	Thorium-232	UNFILTERED	06/11/93	1940	0.122	pci/l	UJ
114785	Thorium-232	UNFILTERED	06/11/93	1940	0.756	pci/l	J
114782	Thorium-232	UNFILTERED	06/01/93	1937	1.91	pci/l	-
114617	Thorium-232	UNFILTERED	05/11/93	1937	0.138	pci/l	UJ
003732	Thorium-232	UNFILTERED	11/17/88	1041	1	pci/l	U
003490	Thorium-232	UNFILTERED	08/10/88	1041	1	pci/l	UJ
003180	Thorium-232	UNFILTERED	05/11/88	1041	1	pci/l	U
116221	Thorium-232	FILTERED	05/05/93	1041	1.03	pci/l	UJ
116220	Thorium-232	UNFILTERED	05/05/93	1041	0.74	pci/l	J
003924	Thorium-232	UNFILTERED	03/01/89	1041	1	pci/l	U
003733	Thorium-232	UNFILTERED	11/20/88	1039	0.7	pci/l	UJ
003491	Thorium-232	UNFILTERED	08/10/88	1039	1	pci/l	UJ
003179	Thorium-232	UNFILTERED	05/11/88	1039	1	pci/l	U
111990	Thorium-232	FILTERED	04/28/93	1039	0.054	pci/l	UJ
003928	Thorium-232	UNFILTERED	02/05/89	1039	1	pci/l	U
114784	Uranium, Total	UNFILTERED	06/11/93	1940	6.3	ug/l	-
114785	Uranium, Total	UNFILTERED	06/11/93	1940	7.62	ug/l	-
114782	Uranium, Total	UNFILTERED	06/01/93	1937	6.48	ug/l	-
114617	Uranium, Total	UNFILTERED	05/11/93	1937	5.16	ug/l	-
003732	Uranium, Total	UNFILTERED	11/17/88	1041	6	ug/l	-
003490	Uranium, Total	UNFILTERED	08/10/88	1041	6	ug/l	-
003180	Uranium, Total	UNFILTERED	05/11/88	1041	9	ug/l	J
116221	Uranium, Total	FILTERED	05/05/93	1041	8.3	ug/l	-
116220	Uranium, Total	UNFILTERED	05/05/93	1041	7.8	ug/l	-
003924	Uranium, Total	UNFILTERED	03/01/89	1041	8	ug/l	-
003733	Uranium, Total	UNFILTERED	11/20/88	1039	1.8	ug/l	J
003491	Uranium, Total	UNFILTERED	08/10/88	1039	1	ug/l	-
003179	Uranium, Total	UNFILTERED	05/11/88	1039	2	ug/l	UJ
111990	Uranium, Total	FILTERED	04/28/93	1039	1	ug/l	U

TABLE A.3-19
LIME SLUDGE PONDS - PGW (inside battery limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
003928	Uranium, Total	UNFILTERED	02/05/89	1039	1	ug/l	-
114784	Uranium-234	UNFILTERED	06/11/93	1940	3.14	pci/l	-
114785	Uranium-234	UNFILTERED	06/11/93	1940	3.34	pci/l	-
114782	Uranium-234	UNFILTERED	06/01/93	1937	3.17	pci/l	-
114617	Uranium-234	UNFILTERED	05/11/93	1937	2.42	pci/l	J
003732	Uranium-234	UNFILTERED	11/17/88	1041	1.4	pci/l	-
003490	Uranium-234	UNFILTERED	08/10/88	1041	2.1	pci/l	J
003180	Uranium-234	UNFILTERED	05/11/88	1041	1.8	pci/l	-
116221	Uranium-234	FILTERED	05/05/93	1041	2.45	pci/l	-
116220	Uranium-234	UNFILTERED	05/05/93	1041	3.02	pci/l	-
003733	Uranium-234	UNFILTERED	11/20/88	1039	0.5	pci/l	J
003491	Uranium-234	UNFILTERED	08/10/88	1039	1	pci/l	UJ
003179	Uranium-234	UNFILTERED	05/11/88	1039	1	pci/l	U
111990	Uranium-234	FILTERED	04/28/93	1039	0.391	pci/l	J
003928	Uranium-234	UNFILTERED	02/05/89	1039	1.4	pci/l	-
114784	Uranium-235/236	UNFILTERED	06/11/93	1940	0.076	pci/l	J
114785	Uranium-235/236	UNFILTERED	06/11/93	1940	0.212	pci/l	J
114782	Uranium-235/236	UNFILTERED	06/01/93	1937	0.165	pci/l	J
114617	Uranium-235/236	UNFILTERED	05/11/93	1937	0.078	pci/l	J
003732	Uranium-235/236	UNFILTERED	11/17/88	1041	1	pci/l	U
003490	Uranium-235/236	UNFILTERED	08/10/88	1041	1	pci/l	UJ
003180	Uranium-235/236	UNFILTERED	05/11/88	1041	1	pci/l	U
116221	Uranium-235/236	FILTERED	05/05/93	1041	0.18	pci/l	-
116220	Uranium-235/236	UNFILTERED	05/05/93	1041	0.18	pci/l	J
003924	Uranium-235/236	UNFILTERED	03/01/89	1041	1	pci/l	U
003733	Uranium-235/236	UNFILTERED	11/20/88	1039	0.3	pci/l	UJ
003491	Uranium-235/236	UNFILTERED	08/10/88	1039	1	pci/l	UJ
003179	Uranium-235/236	UNFILTERED	05/11/88	1039	1	pci/l	U
111990	Uranium-235/236	FILTERED	04/28/93	1039	0.058	pci/l	UJ
003928	Uranium-235/236	UNFILTERED	02/05/89	1039	1	pci/l	U
114784	Uranium-238	UNFILTERED	06/11/93	1940	2.58	pci/l	-
114785	Uranium-238	UNFILTERED	06/11/93	1940	3.67	pci/l	-
114782	Uranium-238	UNFILTERED	06/01/93	1937	3.19	pci/l	-
114617	Uranium-238	UNFILTERED	05/11/93	1937	2.13	pci/l	-
003732	Uranium-238	UNFILTERED	11/17/88	1041	2.1	pci/l	-
003490	Uranium-238	UNFILTERED	08/10/88	1041	1.7	pci/l	J
003180	Uranium-238	UNFILTERED	05/11/88	1041	2.4	pci/l	-
116221	Uranium-238	FILTERED	05/05/93	1041	2.72	pci/l	-
116220	Uranium-238	UNFILTERED	05/05/93	1041	3.33	pci/l	-
003924	Uranium-238	UNFILTERED	03/01/89	1041	2.4	pci/l	-
003733	Uranium-238	UNFILTERED	11/20/88	1039	0.3	pci/l	J
003491	Uranium-238	UNFILTERED	08/10/88	1039	1	pci/l	UJ
003179	Uranium-238	UNFILTERED	05/11/88	1039	1	pci/l	U
111990	Uranium-238	FILTERED	04/28/93	1039	0.416	pci/l	J
003928	Uranium-238	UNFILTERED	02/05/89	1039	1.8	pci/l	-

TABLE A.3-20
LIME SLUDGE PONDS - PGW (outside battery limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
114622	Arsenic	UNFILTERED	05/13/93	1934	0.014	mg/l	J
114620	Arsenic	UNFILTERED	05/13/93	1934	0.001	mg/l	UJ
003723	Arsenic	FILTERED	11/17/88	1042	0.002	mg/l	U
003416	Arsenic	FILTERED	08/09/88	1042	0.01	mg/l	U
003182	Arsenic	FILTERED	05/11/88	1042	0.2	mg/l	U
110889	Arsenic	FILTERED	04/22/93	1042	0.002	mg/l	UJ
003922	Arsenic	FILTERED	03/01/89	1042	0.003	mg/l	U
114622	Cesium-137	UNFILTERED	05/13/93	1934	16.1	pci/l	UJ
114620	Cesium-137	UNFILTERED	05/13/93	1934	13	pci/l	UJ
110889	Cesium-137	UNFILTERED	04/22/93	1042	17.8	pci/l	UJ
114622	Neptunium-237	UNFILTERED	05/13/93	1934	0.839	pci/l	N
114620	Neptunium-237	UNFILTERED	05/13/93	1934	0.149	pci/l	N
003723	Neptunium-237	UNFILTERED	11/17/88	1042	1	pci/l	U
003416	Neptunium-237	*U	08/09/88	1042	1	pci/l	U
003182	Neptunium-237	UNFILTERED	05/11/88	1042	1	pci/l	U
003922	Neptunium-237	UNFILTERED	03/01/89	1042	1	pci/l	U
114622	Radium-226	UNFILTERED	05/13/93	1934	1.4	pci/l	-
114620	Radium-226	UNFILTERED	05/13/93	1934	0.225	pci/l	-
003723	Radium-226	UNFILTERED	11/17/88	1042	1	pci/l	U
003416	Radium-226	*U	08/09/88	1042	1	pci/l	UJ
003182	Radium-226	UNFILTERED	05/11/88	1042	1	pci/l	U
110889	Radium-226	UNFILTERED	04/22/93	1042	0.21	pci/l	J
003922	Radium-226	UNFILTERED	03/01/89	1042	1	pci/l	U
114622	Radium-228	UNFILTERED	05/13/93	1934	1.87	pci/l	UJ
114620	Radium-228	UNFILTERED	05/13/93	1934	1.39	pci/l	UJ
003723	Radium-228	UNFILTERED	11/17/88	1042	3	pci/l	U
003416	Radium-228	*U	08/09/88	1042	3.4	pci/l	J
003182	Radium-228	UNFILTERED	05/11/88	1042	3	pci/l	U
110889	Radium-228	UNFILTERED	04/22/93	1042	1.73	pci/l	UJ
003922	Radium-228	UNFILTERED	03/01/89	1042	3	pci/l	UJ
3922	Strontium-90	*U	3/1/89	1042	5	pci/l	U
3182	Strontium-90	*U	5/11/88	1042	5	pci/l	U
3723	Strontium-90	*U	11/17/88	1042	5	pci/l	U
110889	Strontium-90	UNFILTERED	4/22/93	1042	3.45	pci/l	J
114622	Strontium-90	UNFILTERED	5/13/93	1934	0.973	pci/l	UJ
114620	Strontium-90	UNFILTERED	5/13/93	1934	0.781	pci/l	UJ
3416	Strontium-90	*U	8/9/88	1042	5	pci/l	U
114622	Technetium-99	UNFILTERED	05/13/93	1934	8.6	pci/l	UJ
114620	Technetium-99	UNFILTERED	05/13/93	1934	8.2	pci/l	UJ
003723	Technetium-99	UNFILTERED	11/17/88	1042	30	pci/l	U
003416	Technetium-99	*U	08/09/88	1042	30	pci/l	U
003182	Technetium-99	UNFILTERED	05/11/88	1042	30	pci/l	U
110889	Technetium-99	UNFILTERED	04/22/93	1042	8	pci/l	UJ
003922	Technetium-99	UNFILTERED	03/01/89	1042	30	pci/l	U
114622	Thorium-228	UNFILTERED	05/13/93	1934	2.87	pci/l	-
114620	Thorium-228	UNFILTERED	05/13/93	1934	0.332	pci/l	UJ
003723	Thorium-228	UNFILTERED	11/17/88	1042	1	pci/l	U
003416	Thorium-228	*U	08/09/88	1042	1	pci/l	U
003182	Thorium-228	UNFILTERED	05/11/88	1042	1	pci/l	U
110889	Thorium-228	UNFILTERED	04/22/93	1042	0.24	pci/l	UJ
003922	Thorium-228	UNFILTERED	03/01/89	1042	1	pci/l	U

TABLE A.3-20
LIME SLUDGE PONDS - PGW (outside battery limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
114622	Thorium-230	UNFILTERED	05/13/93	1934	6.67	pci/l	-
114620	Thorium-230	UNFILTERED	05/13/93	1934	0.308	pci/l	UJ
003723	Thorium-230	UNFILTERED	11/17/88	1042	1	pci/l	U
003416	Thorium-230	*U	08/09/88	1042	1	pci/l	U
003182	Thorium-230	UNFILTERED	05/11/88	1042	1	pci/l	U
110889	Thorium-230	UNFILTERED	04/22/93	1042	0.17	pci/l	UJ
003922	Thorium-230	UNFILTERED	03/01/89	1042	1	pci/l	U
114622	Thorium-232	UNFILTERED	05/13/93	1934	2.6	pci/l	-
114620	Thorium-232	UNFILTERED	05/13/93	1934	0.332	pci/l	UJ
003723	Thorium-232	UNFILTERED	11/17/88	1042	1	pci/l	U
003416	Thorium-232	*U	08/09/88	1042	1	pci/l	U
003182	Thorium-232	UNFILTERED	05/11/88	1042	1	pci/l	U
110889	Thorium-232	UNFILTERED	04/22/93	1042	0.17	pci/l	UJ
003922	Thorium-232	UNFILTERED	03/01/89	1042	1	pci/l	U
114622	Uranium, Total	UNFILTERED	05/13/93	1934	17.5	ug/l	-
114620	Uranium, Total	UNFILTERED	05/13/93	1934	4.77	ug/l	-
045780	Uranium, Total	UNFILTERED	10/23/89	1229	58	ug/l	J
045739	Uranium, Total	UNFILTERED	10/22/89	1210	8.4	ug/l	-
045426	Uranium, Total	UNFILTERED	10/18/89	1134	21	ug/l	-
003723	Uranium, Total	UNFILTERED	11/17/88	1042	11	ug/l	-
003416	Uranium, Total	*U	08/09/88	1042	6	ug/l	-
003182	Uranium, Total	UNFILTERED	05/11/88	1042	7	ug/l	J
110889	Uranium, Total	UNFILTERED	04/22/93	1042	30.4	ug/l	-
003922	Uranium, Total	UNFILTERED	03/01/89	1042	30	ug/l	-
114622	Uranium-234	UNFILTERED	05/13/93	1934	6.69	pci/l	-
114620	Uranium-234	UNFILTERED	05/13/93	1934	1.81	pci/l	-
003723	Uranium-234	UNFILTERED	11/17/88	1042	3.3	pci/l	-
003416	Uranium-234	*U	08/09/88	1042	2.5	pci/l	-
003182	Uranium-234	UNFILTERED	05/11/88	1042	1	pci/l	U
110889	Uranium-234	UNFILTERED	04/22/93	1042	11.02	pci/l	J
114622	Uranium-235/236	UNFILTERED	05/13/93	1934	0.25	pci/l	-
114620	Uranium-235/236	UNFILTERED	05/13/93	1934	0.176	pci/l	-
003723	Uranium-235/236	UNFILTERED	11/17/88	1042	1	pci/l	U
003416	Uranium-235/236	*U	08/09/88	1042	1	pci/l	U
003182	Uranium-235/236	UNFILTERED	05/11/88	1042	1	pci/l	U
110889	Uranium-235/236	UNFILTERED	04/22/93	1042	0.7	pci/l	J
003922	Uranium-235/236	UNFILTERED	03/01/89	1042	1	pci/l	U
114622	Uranium-238	UNFILTERED	05/13/93	1934	5.75	pci/l	-
114620	Uranium-238	UNFILTERED	05/13/93	1934	1.89	pci/l	-
003723	Uranium-238	UNFILTERED	11/17/88	1042	3.2	pci/l	-
003416	Uranium-238	*U	08/09/88	1042	2.2	pci/l	-
003182	Uranium-238	UNFILTERED	05/11/88	1042	1	pci/l	U
110889	Uranium-238	UNFILTERED	04/22/93	1042	11.81	pci/l	J
003922	Uranium-238	UNFILTERED	03/01/89	1042	9.7	pci/l	-

APPENDIX A.4

INACTIVE FLYASH PILE

TABLE A.4–1
STATISTICAL SUMMARY FOR SOIL/WASTE
INACTIVE FLYASH PILE

Analyte	Units	Distribution	# of Sample	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N	95%(N	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
IFP – Surface Soil																	
Arsenic	mg/kg	Undefined	7	7	1.9	33.2	–	–	8.729	–	–	–	–	–	33.200	33.200	33.200
Dibenzo(a,h)anthracene	ug/kg	Undefined	7	1	2200	2200	360	560	499.286	–	–	–	–	–	2200	2200	2200
Neptunium–237	pci/g	Undefined	4	4	0.0298	0.137	–	–	0.061	–	–	–	–	–	0.137	0.137	0.137
Radium–226	pci/g	LogNormal	7	7	0.523	2.7	–	–	–	–	–	1.217	1.975	2.406	–	–	1.975
Radium–228	pci/g	LogNormal	7	7	0.415	2.62	–	–	–	–	–	1.208	2.242	2.643	–	–	2.242
Technetium–99	pci/g	Undefined	7	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium–228	pci/g	Undefined	2	2	0.79	2.71	–	–	1.750	–	–	–	–	–	2.710	2.710	2.710
Thorium–230	pci/g	Undefined	2	2	2.2	2.77	–	–	2.485	–	–	–	–	–	2.770	2.770	2.770
Thorium–232	pci/g	Undefined	2	2	0.841	2.33	–	–	1.586	–	–	–	–	–	2.330	2.330	2.330
Uranium, Total	mg/kg	Normal	7	7	0.824	32.1	–	–	17.348	28.499	37.183	–	–	–	–	–	28.499
Uranium–234	pci/g	Normal	7	7	0.433	10.6	–	–	5.633	9.431	12.388	–	–	–	–	–	9.431
Uranium–235/236	pci/g	Normal	7	7	0.038	0.602	–	–	0.268	0.459	0.608	–	–	–	–	–	0.459
Uranium–238	pci/g	Normal	7	7	0.422	11.2	–	–	5.732	9.680	12.755	–	–	–	–	–	9.680
IFP – Cover Material *																	
Arsenic	mg/kg	Undefined	2	2	1.9	5.1	–	–	3.500	–	–	–	–	–	5.100	5.100	5.100
Dibenzo(a,h)anthracene	ug/kg	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Neptunium–237	pci/g	Undefined	2	2	0.030	0.137	–	–	0.083	–	–	–	–	–	0.137	0.137	0.137
Radium–226	pci/g	Undefined	2	2	0.523	1.22	–	–	0.872	–	–	–	–	–	1.220	1.220	1.220
Radium–228	pci/g	Undefined	2	2	0.415	1.2	–	–	0.808	–	–	–	–	–	1.200	1.200	1.200
Technetium–99	pci/g	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Uranium, Total	mg/kg	Undefined	2	2	0.824	19.7	–	–	10.262	–	–	–	–	–	19.700	19.700	19.700
Uranium–234	pci/g	Undefined	2	2	0.433	6.18	–	–	3.307	–	–	–	–	–	6.180	6.180	6.180
Uranium–235/236	pci/g	Undefined	2	2	0.038	0.276	–	–	0.157	–	–	–	–	–	0.276	0.276	0.276
Uranium–238	pci/g	Undefined	2	2	0.422	6.12	–	–	3.271	–	–	–	–	–	6.120	6.120	6.120
IFP – Ash Samples																	
Arsenic	mg/kg	LogNormal	15	15	7.1	81.8	–	–	–	–	–	35.527	59.346	95.388	–	–	59.346
Dibenzo(a,h)anthracene	ug/kg	Undefined	20	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Neptunium–237	pci/g	Undefined	12	5	0.113	0.78	0.6	0.6	0.325	–	–	–	–	–	0.270	0.780	0.780
Radium–226	pci/g	LogNormal	15	15	1.96	4.11	–	–	–	–	–	2.827	3.085	3.750	–	–	3.085
Radium–228	pci/g	Normal	15	15	1.66	3.13	–	–	2.413	2.620	3.029	–	–	–	–	–	2.620
Technetium–99	pci/g	Undefined	15	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium–228	pci/g	Normal	14	14	0.79	3.34	–	–	2.514	2.867	3.520	–	–	–	–	–	2.867
Thorium–230	pci/g	LogNormal	14	14	1.41	8.8	–	–	–	–	–	3.902	4.949	7.176	–	–	4.949
Thorium–232	pci/g	Normal	14	14	0.8	3.1	–	–	2.242	2.560	3.149	–	–	–	–	–	2.560
Uranium, Total	mg/kg	Undefined	15	15	8.61	123	–	–	28.007	–	–	–	–	–	38.200	123.000	123.000
Uranium–234	pci/g	Undefined	15	15	1.33	42	–	–	7.106	–	–	–	–	–	5.930	42.000	42.000
Uranium–235/236	pci/g	LogNormal	15	11	0.037	5.34	0.6	0.6	–	–	–	0.670	1.687	2.296	–	–	1.687
Uranium–238	pci/g	Undefined	15	15	1.54	40.1	–	–	7.224	–	–	–	–	–	5.670	40.100	40.100
IFP – Source Material																	
Arsenic	mg/kg	Undefined	19	19	1.7	49.7	–	–	10.768	–	–	–	–	–	6.800	49.700	49.700
Dibenzo(a,h)anthracene	ug/kg	Undefined	21	2	2	2200	360	820	303.667	–	–	–	–	–	2.000	2.000	2.000
Neptunium–237	pci/g	Undefined	21	18	0.030	37.3	0.6	0.6	2.124	–	–	–	–	–	0.490	1.910	1.910
Radium–226	pci/g	Undefined	26	26	0.523	42.3	–	–	6.384	–	–	–	–	–	2.700	37.800	37.800
Radium–228	pci/g	LogNormal	26	26	0.415	3.12	–	–	–	–	–	1.557	1.911	3.194	–	–	1.911
Technetium–99	pci/g	Undefined	25	1	0.9	0.9	0.312	0.9	0.263	–	–	–	–	–	0.900	0.900	0.900
Thorium–228	pci/g	LogNormal	21	21	0.63	4.1	–	–	–	–	–	1.655	2.048	3.261	–	–	2.048
Thorium–230	pci/g	Undefined	21	21	0.9	121	–	–	14.868	–	–	–	–	–	5.170	74.900	74.900

TABLE A.4-1 (Continued)
STATISTICAL SUMMARY FOR SOIL/WASTE
INACTIVE FLYASH PILE

Analyte	Units	Distribution	# of Sample	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N	95%(N	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
Thorium-232	pci/g	LogNormal	21	21	0.6	4	–	–	–	–	–	1.544	1.935	3.124	–	–	1.935
Uranium, Total	mg/kg	Undefined	25	25	0.824	3580	–	–	406.168	–	–	–	–	–	128.000	2280.000	2280.000
Uranium-234	pci/g	Undefined	25	25	0.433	1380	–	–	137.255	–	–	–	–	–	23.400	771.000	771.000
Uranium-235/236	pci/g	Undefined	25	22	0.038	68.8	0.6	0.6	7.643	–	–	–	–	–	1.280	49.100	49.100
Uranium-238	pci/g	Undefined	24	24	0.422	1570	–	–	152.505	–	–	–	–	–	21.940	803.000	803.000
IFP – Fill Material																	
Arsenic	mg/kg	Undefined	16	16	1.9	49.7	–	–	12.181	–	–	–	–	–	9.700	49.700	49.700
Dibenzo(a,h)anthracene	ug/kg	Undefined	18	2	2	2200	360	560	309.556	–	–	–	–	–	2.000	2200.000	2200.000
Neptunium-237	pci/g	Undefined	16	16	0.030	37.3	–	–	2.663	–	–	–	–	–	0.490	37.300	37.300
Radium-226	pci/g	Undefined	20	20	0.523	42.3	–	–	6.170	–	–	–	–	–	3.150	37.800	37.800
Radium-228	pci/g	LogNormal	20	20	0.415	3.04	–	–	–	–	–	1.603	2.048	3.317	–	–	2.048
Technetium-99	pci/g	Undefined	20	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium-228	pci/g	LogNormal	15	15	0.63	4.1	–	–	–	–	–	1.689	2.279	3.520	–	–	2.279
Thorium-230	pci/g	LogNormal	15	15	1	121	–	–	–	–	–	12.877	47.978	48.569	–	–	47.978
Thorium-232	pci/g	LogNormal	15	15	0.841	4	–	–	–	–	–	1.623	2.118	3.205	–	–	2.118
Uranium, Total	mg/kg	Undefined	20	20	0.824	3580	–	–	428.229	–	–	–	–	–	128.000	2280.000	2280.000
Uranium-234	pci/g	Undefined	20	20	0.433	1380	–	–	160.919	–	–	–	–	–	51.400	771.000	771.000
Uranium-235/236	pci/g	Undefined	20	20	0.038	68.8	–	–	8.564	–	–	–	–	–	2.910	49.100	49.100
Uranium-238	pci/g	Undefined	19	19	0.422	1570	–	–	181.168	–	–	–	–	–	23.700	1570.000	1570.000
IFP – Impacted Till																	
Arsenic	mg/kg	Undefined	3	3	1.7	5	–	–	3.233	–	–	–	–	–	5.000	5.000	5.000
Dibenzo(a,h)anthracene	ug/kg	Undefined	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Neptunium-237	pci/g	Undefined	5	2	0.49	0.6	0.6	0.6	0.398	–	–	–	–	–	0.600	0.600	0.600
Radium-226	pci/g	Undefined	6	6	0.7	36	–	–	7.098	–	–	–	–	–	36.000	36.000	36.000
Radium-228	pci/g	Undefined	6	6	0.74	3.12	–	–	1.425	–	–	–	–	–	3.120	3.120	3.120
Technetium-99	pci/g	Undefined	5	1	0.9	0.9	0.36	0.9	0.486	–	–	–	–	–	0.900	0.900	0.900
Thorium-228	pci/g	Undefined	6	6	1.1	3.03	–	–	1.590	–	–	–	–	–	3.030	3.030	3.030
Thorium-230	pci/g	Undefined	6	6	0.9	54.6	–	–	10.872	–	–	–	–	–	54.600	54.600	54.600
Thorium-232	pci/g	Undefined	6	6	0.6	3.28	–	–	1.365	–	–	–	–	–	3.280	3.280	3.280
Uranium, Total	mg/kg	Undefined	5	5	6.93	873	–	–	317.926	–	–	–	–	–	873.000	873.000	873.000
Uranium-234	pci/g	Undefined	5	5	1.73	187	–	–	42.596	–	–	–	–	–	187.000	187.000	187.000
Uranium-235/236	pci/g	Undefined	5	2	0.4	18.5	0.6	0.6	3.960	–	–	–	–	–	18.500	18.500	18.500
Uranium-238	pci/g	Undefined	5	5	1.76	191	–	–	43.584	–	–	–	–	–	191.000	191.000	191.000
IFP – Other Till																	
Arsenic	mg/kg	Undefined	4	4	3.6	6.9	–	–	5.050	–	–	–	–	–	6.900	6.900	6.900
Dibenzo(a,h)anthracene	ug/kg	Undefined	4	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Neptunium-237	pci/g	Undefined	2	2	0.137	0.16	–	–	0.149	–	–	–	–	–	0.160	0.160	0.160
Radium-226	pci/g	Undefined	2	2	0.79	1.01	–	–	0.900	–	–	–	–	–	1.010	1.010	1.010
Radium-228	pci/g	Undefined	2	2	0.72	0.73	–	–	0.725	–	–	–	–	–	0.730	0.730	0.730
Thorium-228	pci/g	Undefined	2	2	0.535	0.833	–	–	0.684	–	–	–	–	–	0.833	0.833	0.833
Thorium-230	pci/g	Undefined	2	2	0.874	1.62	–	–	1.247	–	–	–	–	–	1.620	1.620	1.620
Thorium-232	pci/g	Undefined	2	2	0.613	0.732	–	–	0.673	–	–	–	–	–	0.732	0.732	0.732
Uranium, Total	mg/kg	Undefined	2	2	3.41	4.39	–	–	3.900	–	–	–	–	–	4.390	4.390	4.390
Uranium-234	pci/g	Undefined	2	2	0.49	0.77	–	–	0.630	–	–	–	–	–	0.770	0.770	0.770
Uranium-235/236	pci/g	Undefined	2	2	0.039	0.052	–	–	0.046	–	–	–	–	–	0.052	0.052	0.052
Uranium-238	pci/g	Undefined	2	2	0.69	0.85	–	–	0.770	–	–	–	–	–	0.850	0.850	0.850

TABLE A.4-1 (Continued)
STATISTICAL SUMMARY FOR SOIL/WASTE
INACTIVE FLYASH PILE

Analyte	Units	Distribution	# of Sample	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N	95%(N	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
IFP – Till Outside Battery Limits *																	
Neptunium-237	pci/g	Undefined	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium-226	pci/g	Undefined	1	1	0.7	0.7	–	–	0.700	–	–	–	–	–	0.700	0.700	0.700
Radium-228	pci/g	Undefined	1	1	0.6	0.6	–	–	0.600	–	–	–	–	–	0.600	0.600	0.600
Technetium-99	pci/g	Undefined	1	1	1.5	1.5	–	–	1.500	–	–	–	–	–	1.500	1.500	1.500
Thorium-228	pci/g	Undefined	1	1	0.8	0.8	–	–	0.800	–	–	–	–	–	0.800	0.800	0.800
Thorium-230	pci/g	Undefined	1	1	1.4	1.4	–	–	1.400	–	–	–	–	–	1.400	1.400	1.400
Thorium-232	pci/g	Undefined	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Uranium-234	pci/g	Undefined	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Uranium-235/236	pci/g	Undefined	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Uranium-238	pci/g	Undefined	1	1	0.7	0.7			0.700	–	–	–	–	–	0.700	0.700	0.700
IFP – GMA Soil Inside Battery Limits																	
Arsenic	mg/kg	Undefined	3	3	3	5.1	–	–	4.300	–	–	–	–	–	5.100	5.100	5.100
Dibenzo(a,h)anthracene	ug/kg	Undefined	7	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Neptunium-237	pci/g	Undefined	2	2	0.086	0.18	–	–	0.133	–	–	–	–	–	0.180	0.180	0.180
Radium-226	pci/g	Undefined	3	3	0.56	0.87	–	–	0.737	–	–	–	–	–	0.870	0.870	0.870
Radium-228	pci/g	Undefined	3	2	0.34	0.53	0.442	0.442	0.364	–	–	–	–	–	0.530	0.530	0.530
Technetium-99	pci/g	Undefined	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium-228	pci/g	Undefined	3	3	0.308	0.41	–	–	0.373	–	–	–	–	–	0.410	0.410	0.410
Thorium-230	pci/g	Undefined	3	3	0.893	2.03	–	–	1.334	–	–	–	–	–	2.030	2.030	2.030
Thorium-232	pci/g	Undefined	3	3	0.264	0.36	–	–	0.305	–	–	–	–	–	0.360	0.360	0.360
Uranium, Total	mg/kg	Undefined	3	3	3.44	5.86	–	–	4.307	–	–	–	–	–	5.860	5.860	5.860
Uranium-234	pci/g	Undefined	3	3	0.501	1.29	–	–	0.834	–	–	–	–	–	1.290	1.290	1.290
Uranium-235/236	pci/g	Undefined	3	3	0.030	0.08	–	–	0.051	–	–	–	–	–	0.080	0.080	0.080
Uranium-238	pci/g	Undefined	3	3	0.471	1.44	–	–	0.924	–	–	–	–	–	1.440	1.440	1.440
IFP – GMA Soil Outside Battery Limits *																	
Neptunium-237	pci/g	Undefined	4	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium-226	pci/g	Undefined	3	2	0.4	0.5	0.3	0.3	0.350	–	–	–	–	–	0.500	0.500	0.500
Radium-228	pci/g	Undefined	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Technetium-99	pci/g	Undefined	4	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium-228	pci/g	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium-230	pci/g	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium-232	pci/g	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Uranium-234	pci/g	Undefined	3	1	0.7	0.7	0.6	0.6	0.433	–	–	–	–	–	0.700	0.700	0.700
Uranium-235/236	pci/g	Undefined	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Uranium-238	pci/g	Undefined	3	1	0.8	0.8	0.6	0.6	0.467	–	–	–	–	–	0.800	0.800	0.800
IFP – Sediment *																	
Arsenic	mg/kg	LogNormal	7	7	1.7	7.3	–	–	–	–	–	3.845	6.295	7.659	–	–	6.30

* COCs not listed have no data available for this media classification

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TABLE A.4-2
STATISTICAL SUMMARY FOR PERCHED GROUNDWATER
INACTIVE FLYASH PILE

Analyte	Filtered?	Distribution	Units	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N	95%(N	Est. Mean	UCL(L	95%(L)	UCL(M)	95%(NP)	Conc. Term
IFP – Perched Groundwater, Inside Battery Limits																		
Arsenic	Filtered	Undefined	mg/l	1	0	–	–	0.05	0.05	–	–	–	–	–	–	–	–	–
Arsenic	Unfiltered	Undefined	mg/l	2	0	–	–	0.05	0.05	–	–	–	–	–	–	–	–	–
Beryllium	Filtered	Undefined	mg/l	1	0	–	–	0.002	0.002	–	–	–	–	–	–	–	–	–
IFP – Perched Groundwater, Outside Battery Limits																		
Arsenic	Filtered	Undefined	mg/l	3	0	–	–	0.001	0.2	–	–	–	–	–	–	–	–	–
Dibenzo(a,h)anthracene	Unfiltered	Undefined	ug/l	1	0	–	–	10	10	–	–	–	–	–	–	–	–	–
Neptunium-237	Unfiltered	Undefined	pci/l	4	0	–	–	0.13	1	–	–	–	–	–	–	–	–	–
Radium-226	Unfiltered	Undefined	pci/l	5	0	–	–	0.67	1	–	–	–	–	–	–	–	–	–
Radium-228	Unfiltered	Undefined	pci/l	5	1	5.93	5.93	3	3.4	2.430	–	–	–	–	–	5.93	5.93	5.930
Technetium-99	Unfiltered	Undefined	pci/l	6	0	–	–	10.5	43.7	–	–	–	–	–	–	–	–	–
Thorium-228	Unfiltered	Undefined	pci/l	6	1	1.1	1.1	0.132	1	0.53	–	–	–	–	–	1.1	1.1	1.1
Thorium-230	Unfiltered	Undefined	pci/l	4	1	0.227	0.227	1	1	0.432	–	–	–	–	–	0.227	0.227	0.227
Thorium-232	Unfiltered	Undefined	pci/l	5	1	1.1	1.1	0.122	1	0.53	–	–	–	–	–	1.1	1.1	1.1
Uranium, Total	Unfiltered	Undefined	ug/l	4	4	5.36	10.3	–	–	7.670	–	–	–	–	–	10.300	10.3	10.300
Uranium-234	Unfiltered	Undefined	pci/l	6	6	2.33	7.4	–	–	4.740	–	–	–	–	–	7.4	7.4	7.400
Uranium-235/236	Unfiltered	Undefined	pci/l	6	0	–	–	0.124	1	–	–	–	–	–	–	–	–	–
Uranium-238	Unfiltered	Undefined	pci/l	6	6	1.62	3.6	–	–	2.640	–	–	–	–	–	3.6	3.6	3.600

000294

TABLE A.4-3

SAMPLE LIST - SURFACE SOIL
INACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
111790	16-APR-93	IFP-SS-01	0.0	0.5	1379288.15	477700.23	1347819.24	477729.59
111791	16-APR-93	IFP-SS-02	0.0	0.5	1379109.01	477780.39	1347640.10	477809.75
111792	16-APR-93	IFP-SS-03	0.0	0.5	1379045.82	477812.34	1347576.91	477841.69
111793	16-APR-93	IFP-SS-04	0.0	0.5	1378957.87	477839.06	1347488.96	477868.41
111794	16-APR-93	IFP-SS-05	0.0	0.5	1379030.85	477981.13	1347561.93	478010.49
111795	16-APR-93	IFP-SS-06	0.0	0.5	1378926.62	478059.99	1347457.70	478089.35
111796	16-APR-93	IFP-SS-07	0.0	0.5	1379023.03	478165.89	1347554.11	478195.25

000295

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TABLE A.4-4

SAMPLE LIST - COVER MATERIAL
INACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
111792	16-APR-93	IFP-SS-03	0.0	0.5	1379045.82	477812.34	1347576.91	477841.69
111793	16-APR-93	IFP-SS-04	0.0	0.5	1378957.87	477839.06	1347488.96	477868.41

000296

TABLE A.4-5

SAMPLE LIST - ASH SAMPLES
INACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
067010	23-MAY-91	1711	1.5	3.0	1378968.88	478126.52	1347499.90	478155.87
067012	29-MAY-91	1711	4.5	6.0	1378968.88	478126.52	1347499.90	478155.87
067014	29-MAY-91	1711	7.5	9.0	1378968.88	478126.52	1347499.90	478155.87
067015	29-MAY-91	1711	9.0	10.5	1378968.88	478126.52	1347499.90	478155.87
067028	31-MAY-91	1710	3.0	4.5	1378993.33	477931.49	1347524.35	477960.83
067029	31-MAY-91	1710	4.5	5.0	1378993.33	477931.49	1347524.35	477960.83
067032	31-MAY-91	1710	9.0	10.5	1378993.33	477931.49	1347524.35	477960.83
067062	04-JUN-91	1709	4.5	6.0	1378969.43	477814.23	1347500.45	477843.57
067064	06-JUN-91	1709	7.5	9.0	1378969.43	477814.23	1347500.45	477843.57
067071	06-JUN-91	1709	13.5	15.0	1378969.43	477814.23	1347500.45	477843.57
067072	06-JUN-91	1709	15.0	16.5	1378969.43	477814.23	1347500.45	477843.57
067081	11-JUN-91	1709	28.5	30.0	1378969.43	477814.23	1347500.45	477843.57
067095	14-JUN-91	1708	6.0	7.5	1379166.88	477710.64	1347697.90	477739.98
067096	14-JUN-91	1708	7.5	9.0	1379166.88	477710.64	1347697.90	477739.98
067101	16-JUN-91	1708	15.0	16.5	1379166.88	477710.64	1347697.90	477739.98
067102	16-JUN-91	1708	16.5	18.0	1379166.88	477710.64	1347697.90	477739.98
067604	22-FEB-92	1849	6.0	7.5	1378975.19	477806.91	1347506.21	477836.25
067609	22-FEB-92	1849	13.5	15.0	1378975.19	477806.91	1347506.21	477836.25
067627	23-FEB-92	1850	6.0	7.5	1378962.62	478126.20	1347493.63	478155.54
067632	23-FEB-92	1850	13.5	15.0	1378962.62	478126.20	1347493.63	478155.54
112045	28-APR-93	1998	2.0	3.5	1379032.88	478091.60	1347563.90	478120.95
112077	29-APR-93	1996	8.0	9.5	1379114.90	477819.85	1347645.93	477849.20
112082	29-APR-93	1996	13.0	13.5	1379114.90	477819.85	1347645.93	477849.20
112084	29-APR-93	1996	14.0	15.0	1379114.90	477819.85	1347645.93	477849.20
116090	01-MAY-93	1995	8.0	9.0	1379054.76	477770.18	1347585.79	477799.53
116192	05-MAY-93	1997	10.0	11.5	1378960.50	477871.13	1347491.53	477900.48
116264	12-MAY-93	1994	2.0	3.5	1379200.09	477742.39	1347731.12	477771.74
116283	12-MAY-93	1994	14.0	15.5	1379200.09	477742.39	1347731.12	477771.74
116335	20-MAY-93	11056	17.0	18.0	1379102.38	477814.54	1347633.41	477843.89
116392	07-JUN-93	1995	8.0	9.5	1379054.76	477770.18	1347585.79	477799.53

000297

TABLE A.4-6

SAMPLE LIST - FILL
INACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
067043	01-JUN-91	1710	22.5	23.0	1378993.33	477931.49	1347524.35	477960.83
067111	16-JUN-91	1708	30.0	31.5	1379166.88	477710.64	1347697.90	477739.98
111790	16-APR-93	IFP-SS-01	0.0	0.5	1379288.15	477700.23	1347819.24	477729.59
111791	16-APR-93	IFP-SS-02	0.0	0.5	1379109.01	477780.39	1347640.10	477809.75
111792	16-APR-93	IFP-SS-03	0.0	0.5	1379045.82	477812.34	1347576.91	477841.69
111793	16-APR-93	IFP-SS-04	0.0	0.5	1378957.87	477839.06	1347488.96	477868.41
111794	16-APR-93	IFP-SS-05	0.0	0.5	1379030.85	477981.13	1347561.93	478010.49
111795	16-APR-93	IFP-SS-06	0.0	0.5	1378926.62	478059.99	1347457.70	478089.35
111796	16-APR-93	IFP-SS-07	0.0	0.5	1379023.03	478165.89	1347554.11	478195.25
112054	28-APR-93	1998	8.0	9.5	1379032.88	478091.60	1347563.90	478120.95
112073	29-APR-93	1996	2.0	4.0	1379114.90	477819.85	1347645.93	477849.20
112087	29-APR-93	1996	16.0	16.5	1379114.90	477819.85	1347645.93	477849.20
113492	26-APR-93	11006	22.5	24.0	1379030.41	478013.62	1347561.49	478042.98
116080	01-MAY-93	1995	2.0	3.5	1379054.76	477770.18	1347585.79	477799.53
116177	05-MAY-93	1997	0.0	1.5	1378960.50	477871.13	1347491.53	477900.48
116243	06-MAY-93	1997	28.5	30.0	1378960.50	477871.13	1347491.53	477900.48
116252	07-MAY-93	1997	34.0	35.5	1378960.50	477871.13	1347491.53	477900.48
116301	13-MAY-93	1994	26.0	27.5	1379200.09	477742.39	1347731.12	477771.74
116331	19-MAY-93	11055	16.0	18.0	1379125.56	477810.59	1347656.59	477839.94
116427	25-MAY-93	11052	19.0	21.0	1379007.41	478012.50	1347538.44	478041.85
116438	27-MAY-93	11051	21.0	22.0	1379026.36	477985.59	1347557.39	478014.94
116441	27-MAY-93	11051	22.0	24.0	1379026.36	477985.59	1347557.39	478014.94

TABLE A.4-7

SAMPLE LIST - IMPACTED TILL
INACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
007233	15-OCT-87	1016	1.5	3.0				
067019	29-MAY-91	1711	13.5	15.0	1378968.88	478126.52	1347499.90	478155.87
067046	01-JUN-91	1710	27.0	28.5	1378993.33	477931.49	1347524.35	477960.83
067047	01-JUN-91	1710	28.5	30.0	1378993.33	477931.49	1347524.35	477960.83
067112	16-JUN-91	1708	31.5	33.0	1379166.88	477710.64	1347697.90	477739.98
067121	25-JUN-91	1791	27.0	28.5	1378970.18	477812.99	1347501.20	477842.33
067618	22-FEB-92	1849	28.5	30.0	1378975.19	477806.91	1347506.21	477836.25
067633	23-FEB-92	1850	15.0	16.5	1378962.62	478126.20	1347493.63	478155.54
112057	28-APR-93	1998	10.0	11.5	1379032.88	478091.60	1347563.90	478120.95

000259

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TABLE A.4-8

SAMPLE LIST - OTHER TILL
INACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
067020	29-MAY-91	1711	18.0	19.5	1378968.88	478126.52	1347499.90	478155.87
067122	25-JUN-91	1791	28.5	30.0	1378970.18	477812.99	1347501.20	477842.33
112065	28-APR-93	1998	17.0	18.5	1379032.88	478091.60	1347563.90	478120.95
116172	02-MAY-93	1995	30.0	31.5	1379054.76	477770.18	1347585.79	477799.53

TABLE A.4-9

SAMPLE LIST - OTHER TILL
OUTSIDE BATTERY LIMITS
INACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
007301	16-OCT-87	1047	9.0	10.5	1379062.49	478258.45	1347593.51	478287.80

007301

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TABLE A.4-10

SAMPLE LIST - GMA SOIL
INSIDE BATTERY LIMITS
INACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
116070	29-APR-93	1996	20.0	21.5	1379114.90	477819.85	1347645.93	477849.20
116257	07-MAY-93	1997	38.0	39.0	1378960.50	477871.13	1347491.53	477900.48
116312	13-MAY-93	1994	36.0	37.5	1379200.09	477742.39	1347731.12	477771.74
116332	19-MAY-93	11055	23.5	25.0	1379125.56	477810.59	1347656.59	477839.94
116336	20-MAY-93	11056	23.0	24.0	1379102.38	477814.54	1347633.41	477843.89
116337	20-MAY-93	11057	17.0	18.0	1379107.43	477835.17	1347638.46	477864.52
116338	20-MAY-93	11057	23.0	24.0	1379107.43	477835.17	1347638.46	477864.52
116340	21-MAY-93	11054	16.0	17.0	1379123.03	477832.87	1347654.06	477862.22
116341	21-MAY-93	11054	23.0	24.0	1379123.03	477832.87	1347654.06	477862.22

TABLE A.4-11

SAMPLE LIST - GMA SOIL
OUTSIDE BATTERY LIMITS
INACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
008960	20-DEC-88	2047	25.0	26.5	1379054.18	478263.85	1347585.19	478293.20
010441	18-DEC-88	4016	50.0	51.5	1379138.31	477618.74	1347669.33	477648.08
010450	20-DEC-88	4016	95.0	96.5	1379138.31	477618.74	1347669.33	477648.08
010454	21-DEC-88	4016	115.0	116.5	1379138.31	477618.74	1347669.33	477648.08

000303

TABLE A.4-12

SAMPLE LIST - SEDIMENT
INACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
009048	27-JUN-88	ASIT-008	0.0	0.5	1378882.20	477702.10	1347413.22	477731.44
009049	27-JUN-88	ASIT-009	0.0	0.5	1378918.00	478198.10	1347449.01	478227.44
009145	12-JAN-89	W-11	0.0	0.5	1379379.60	476956.40	1347910.63	476985.74
111812	17-APR-93	IFP-SD-02	0.0	0.5	1378871.52	478085.08	1347402.60	478114.44
111813	17-APR-93	IFP-SD-03	0.0	0.5	1378728.59	478054.31	1347259.67	478083.66
111815	17-APR-93	IFP-SD-04	0.0	0.5	1378790.12	477607.14	1347321.21	477636.49
112017	29-APR-93	IFP-SD-04	0.0	0.5	1378790.12	477607.14	1347321.21	477636.49
112021	30-APR-93	IFP-SD-02	0.0	0.5	1378871.52	478085.08	1347402.60	478114.44
116219	01-MAY-93	IFP-SD-03	0.0	0.5	1378728.59	478054.31	1347259.67	478083.66

TABLE A.4-13

SAMPLE LIST - PERCHED GROUNDWATER
INSIDE BATTERY LIMITS
INACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
047005	11-JUN-92	1711	N\A	N\A	1378968.88	478126.52	1347499.90	478155.87
047009	19-JUN-92	1711	N\A	N\A	1378968.88	478126.52	1347499.90	478155.87

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TABLE A.4-14

SAMPLE LIST - PERCHED GROUNDWATER
OUTSIDE BATTERY LIMITS
INACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
003102	20-APR-88	1047	N\A	N\A	1379062.49	478258.45	1347593.51	478287.80
003369	24-JUL-88	1047	N\A	N\A	1379062.49	478258.45	1347593.51	478287.80
003648	23-OCT-88	1047	N\A	N\A	1379062.49	478258.45	1347593.51	478287.80
003855	22-JAN-89	1047	N\A	N\A	1379062.49	478258.45	1347593.51	478287.80
066830	12-DEC-89	1047	N\A	N\A	1379062.49	478258.45	1347593.51	478287.80
110892	27-APR-93	1047	N\A	N\A	1379062.49	478258.45	1347593.51	478287.80

TABLE A.4-15
INACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111790	Arsenic	IFP-SS-01	33.2	mg/kg	-	33.2	100.00%
111795	Arsenic	IFP-SS-06	6.2	mg/kg	-	6.2	83.33%
111794	Arsenic	IFP-SS-05	5.2	mg/kg	-	5.2	66.66%
111791	Arsenic	IFP-SS-02	5.1	mg/kg	-	5.1	33.33%
111793	Arsenic	IFP-SS-04	5.1	mg/kg	-	5.1	33.33%
111796	Arsenic	IFP-SS-07	4.4	mg/kg	-	4.4	16.66%
111792	Arsenic	IFP-SS-03	1.9	mg/kg	J	1.9	0.00%

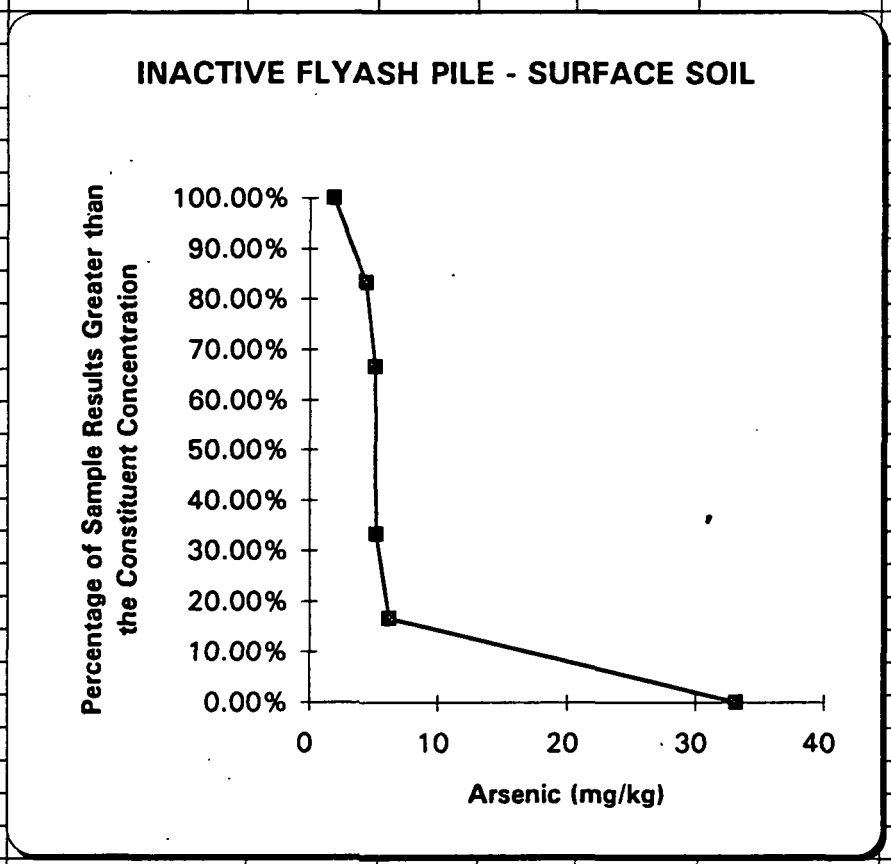

TABLE A.4-15
INACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111796	Dibenzo(a,h)anthracene	IFP-SS-07	2200	ug/kg	-	2200	100.00%
111790	Dibenzo(a,h)anthracene	IFP-SS-01	560	ug/kg	U	280	83.33%
111793	Dibenzo(a,h)anthracene	IFP-SS-04	430	ug/kg	U	215	50.00%
111794	Dibenzo(a,h)anthracene	IFP-SS-05	430	ug/kg	U	215	50.00%
111795	Dibenzo(a,h)anthracene	IFP-SS-06	420	ug/kg	U	210	33.33%
111791	Dibenzo(a,h)anthracene	IFP-SS-02	390	ug/kg	U	195	16.66%
111792	Dibenzo(a,h)anthracene	IFP-SS-03	360	ug/kg	U	180	0.00%

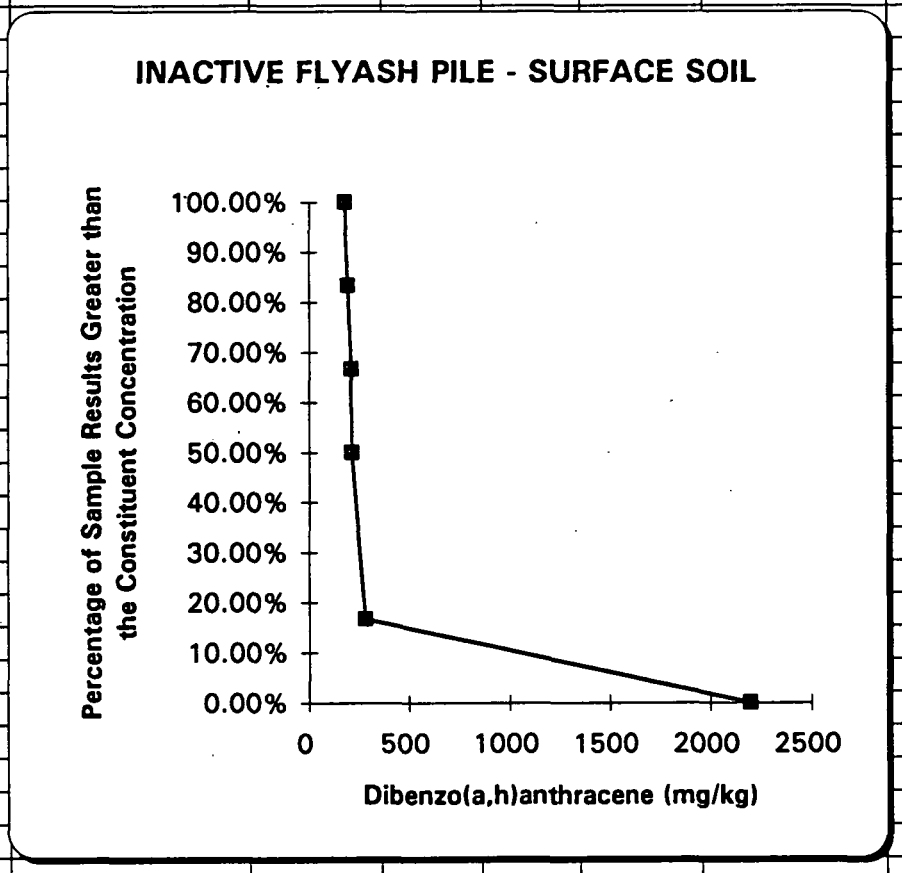

TABLE A.4-15
INACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111790	Radium-226	IFP-SS-01	2.7	pci/g	-	2.7	100.00%
111793	Radium-226	IFP-SS-04	1.22	pci/g	-	1.22	83.33%
111794	Radium-226	IFP-SS-05	1.05	pci/g	-	1.05	66.66%
111796	Radium-226	IFP-SS-07	1.04	pci/g	-	1.04	50.00%
111795	Radium-226	IFP-SS-06	1.02	pci/g	-	1.02	33.33%
111791	Radium-226	IFP-SS-02	0.899	pci/g	-	0.899	16.66%
111792	Radium-226	IFP-SS-03	0.523	pci/g	-	0.523	0.00%

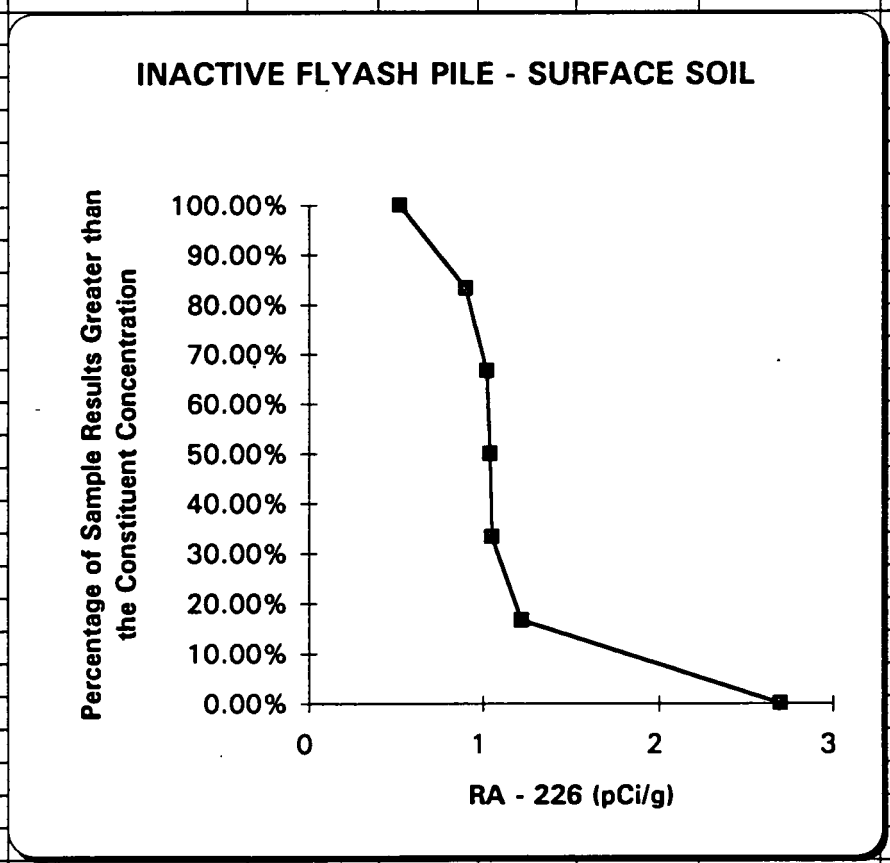

TABLE A.4-15
INACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111790	Radium-228	IFP-SS-01	2.62	pci/g	-	2.62	100.00%
111795	Radium-228	IFP-SS-06	1.48	pci/g	-	1.48	83.33%
111793	Radium-228	IFP-SS-04	1.2	pci/g	-	1.2	66.66%
111791	Radium-228	IFP-SS-02	0.966	pci/g	-	0.966	50.00%
111794	Radium-228	IFP-SS-05	0.827	pci/g	-	0.827	33.33%
111796	Radium-228	IFP-SS-07	0.758	pci/g	-	0.758	16.66%
111792	Radium-228	IFP-SS-03	0.415	pci/g	J	0.415	0.00%

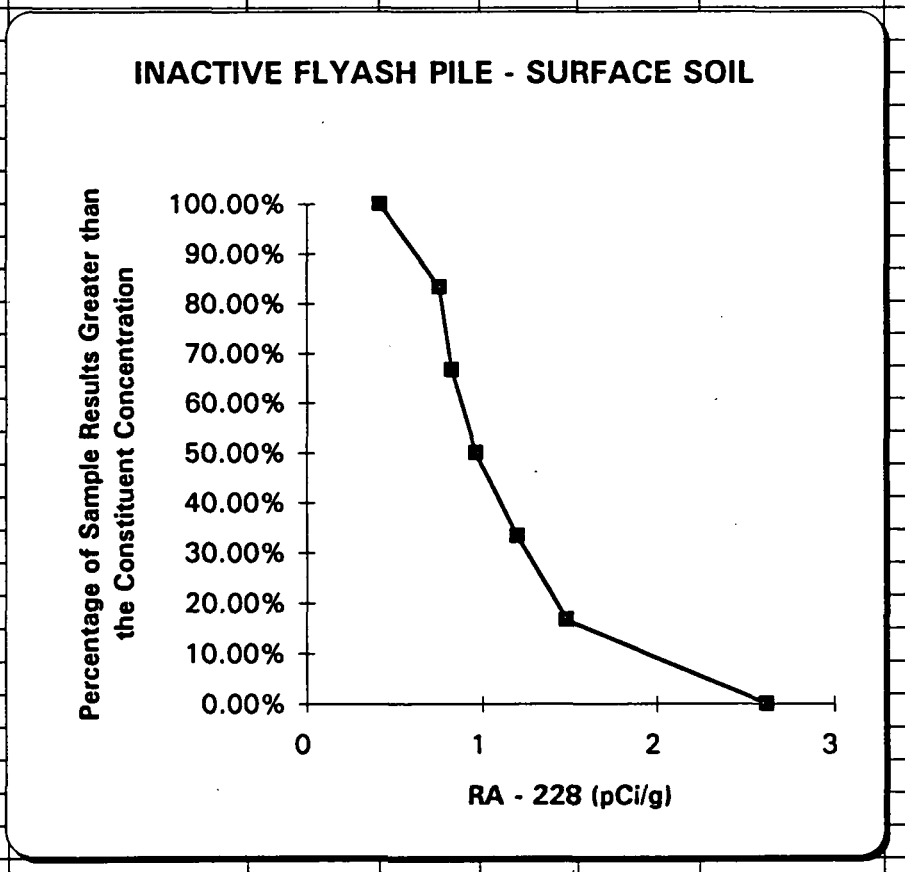

TABLE A.4-15
INACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111795	Technetium-99	IFP-SS-06	0.343	pci/g	UJ	0.1715	100.00%
111792	Technetium-99	IFP-SS-03	0.342	pci/g	UJ	0.171	83.33%
111794	Technetium-99	IFP-SS-05	0.336	pci/g	UJ	0.168	66.66%
111793	Technetium-99	IFP-SS-04	0.323	pci/g	UJ	0.1615	50.00%
111791	Technetium-99	IFP-SS-02	0.319	pci/g	UJ	0.1595	33.33%
111790	Technetium-99	IFP-SS-01	0.316	pci/g	UJ	0.158	16.66%
111796	Technetium-99	IFP-SS-07	0.312	pci/g	UJ	0.156	0.00%

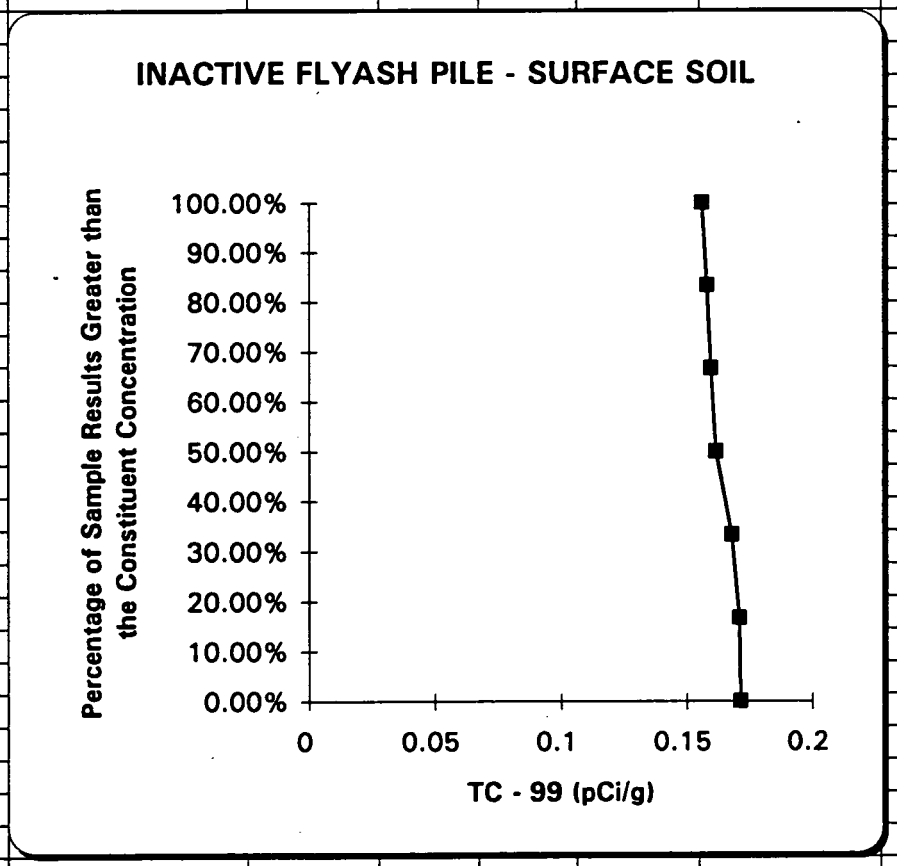

TABLE A.4-15
INACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111795	Uranium, Total	IFP-SS-06	32.1	mg/kg	-	32.1	100.00%
111796	Uranium, Total	IFP-SS-07	31.1	mg/kg	-	31.1	83.33%
111794	Uranium, Total	IFP-SS-05	20.4	mg/kg	-	20.4	66.66%
111793	Uranium, Total	IFP-SS-04	19.7	mg/kg	-	19.7	50.00%
111790	Uranium, Total	IFP-SS-01	12.3	mg/kg	-	12.3	33.33%
111791	Uranium, Total	IFP-SS-02	5.01	mg/kg	-	5.01	16.66%
111792	Uranium, Total	IFP-SS-03	0.824	mg/kg	J	0.824	0.00%

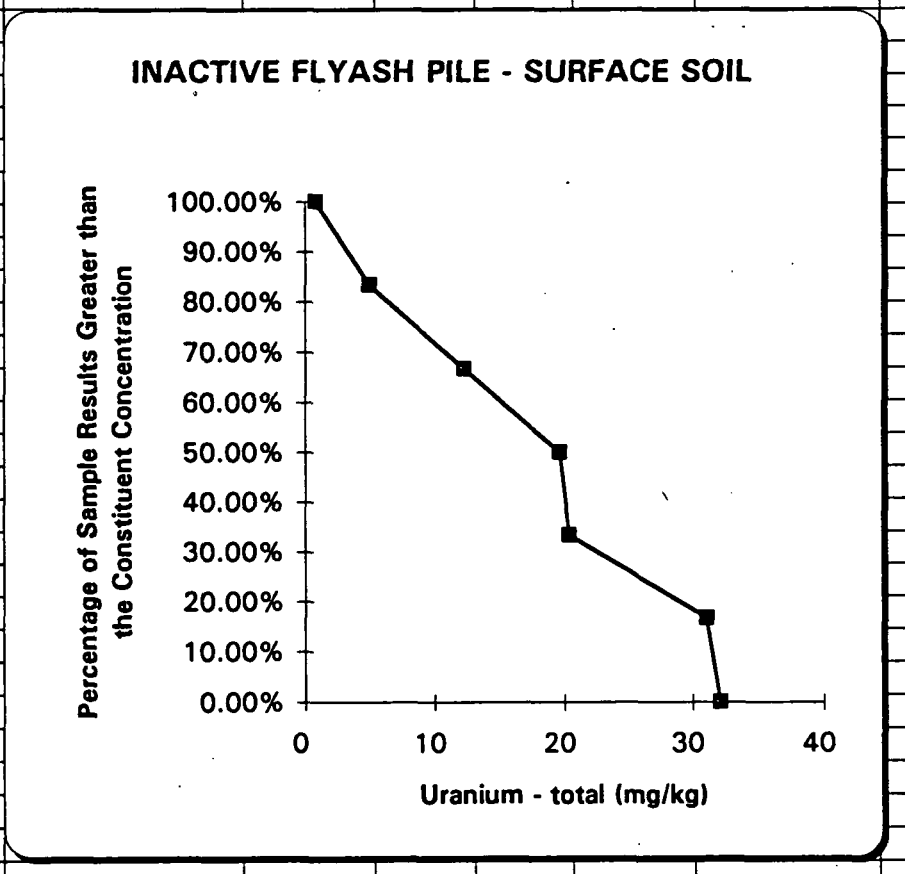

TABLE A.4-15
INACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111795	Uranium-234	IFP-SS-06	10.6	pci/g	-	10.6	100.00%
111796	Uranium-234	IFP-SS-07	10.1	pci/g	-	10.1	83.33%
111794	Uranium-234	IFP-SS-05	7.69	pci/g	-	7.69	66.66%
111793	Uranium-234	IFP-SS-04	6.18	pci/g	-	6.18	50.00%
111790	Uranium-234	IFP-SS-01	3.11	pci/g	-	3.11	33.33%
111791	Uranium-234	IFP-SS-02	1.32	pci/g	-	1.32	16.66%
111792	Uranium-234	IFP-SS-03	0.433	pci/g	J	0.433	0.00%

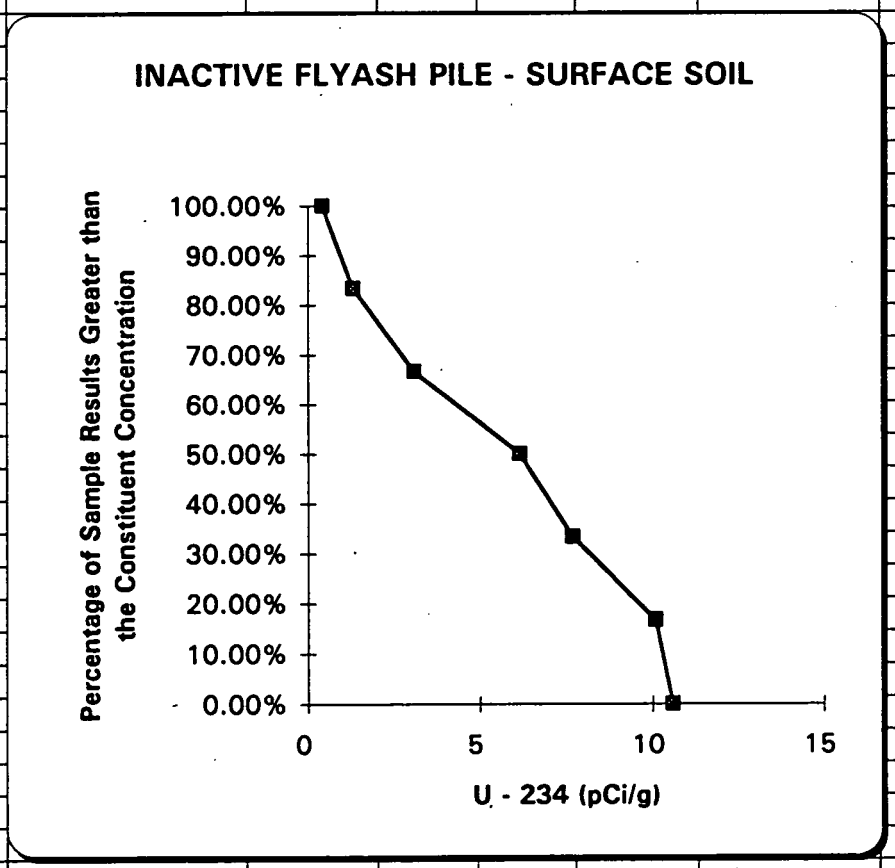

TABLE A.4-15
INACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111795	Uranium-235/236	IFP-SS-06	0.602	pci/g	-	0.602	100.00%
111796	Uranium-235/236	IFP-SS-07	0.433	pci/g	J	0.433	83.33%
111794	Uranium-235/236	IFP-SS-05	0.335	pci/g	-	0.335	66.66%
111793	Uranium-235/236	IFP-SS-04	0.276	pci/g	J	0.276	50.00%
111790	Uranium-235/236	IFP-SS-01	0.122	pci/g	J	0.122	33.33%
111791	Uranium-235/236	IFP-SS-02	0.0721	pci/g	J	0.0721	16.66%
111792	Uranium-235/236	IFP-SS-03	0.038	pci/g	J	0.038	0.00%

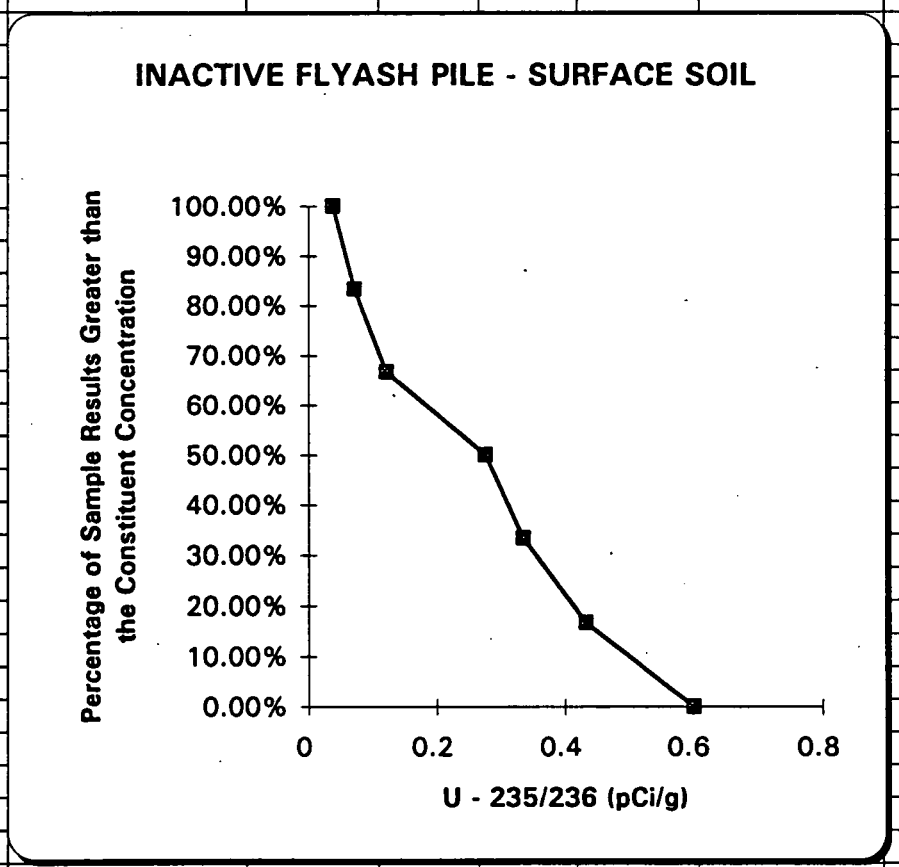

TABLE A.4-15
INACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111795	Uranium-238	IFP-SS-06	11.2	pci/g	-	11.2	100.00%
111796	Uranium-238	IFP-SS-07	10.4	pci/g	-	10.4	83.33%
111794	Uranium-238	IFP-SS-05	7.56	pci/g	-	7.56	66.66%
111793	Uranium-238	IFP-SS-04	6.12	pci/g	-	6.12	50.00%
111790	Uranium-238	IFP-SS-01	2.98	pci/g	-	2.98	33.33%
111791	Uranium-238	IFP-SS-02	1.44	pci/g	-	1.44	16.66%
111792	Uranium-238	IFP-SS-03	0.422	pci/g	J	0.422	0.00%

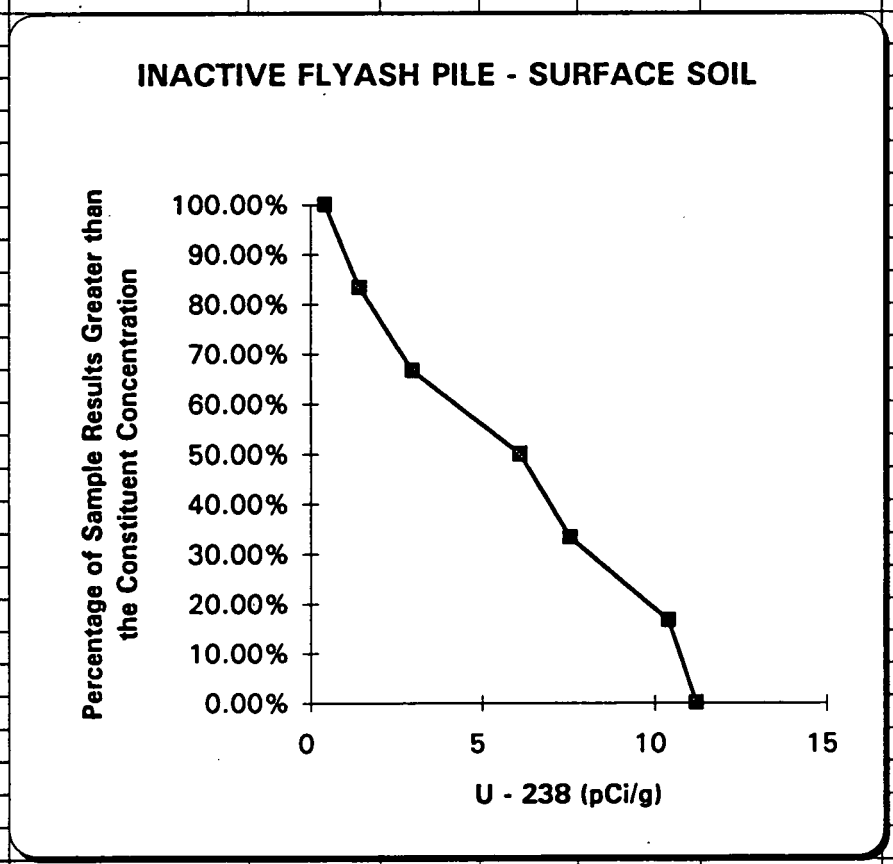

TABLE A.4-15
INACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
111793	Neptunium-237	IFP-SS-04	0.137	pci/g	N	0.137
111794	Neptunium-237	IFP-SS-05	0.0411	pci/g	N	0.0411
111796	Neptunium-237	IFP-SS-07	0.0351	pci/g	N	0.0351
111792	Neptunium-237	IFP-SS-03	0.0298	pci/g	N	0.0298
111790	Thorium-228	IFP-SS-01	2.71	pci/g	-	2.71
111794	Thorium-228	IFP-SS-05	0.79	pci/g	-	0.79
111790	Thorium-230	IFP-SS-01	2.77	pci/g	-	2.77
111794	Thorium-230	IFP-SS-05	2.2	pci/g	-	2.2
111790	Thorium-232	IFP-SS-01	2.33	pci/g	-	2.33
111794	Thorium-232	IFP-SS-05	0.841	pci/g	-	0.841

TABLE A.4-16
INACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
116090	Arsenic	1995	81.8	mg/kg	J	81.8	100.00%
067071	Arsenic	1709	74.8	mg/kg	-	74.8	92.85%
116192	Arsenic	1997	65.7	mg/kg	-	65.7	85.71%
112045	Arsenic	1998	65.4	mg/kg	J	65.4	78.57%
067015	Arsenic	1711	35.4	mg/kg	J	35.4	71.42%
067029	Arsenic	1710	31.7	mg/kg	-	31.7	64.28%
067012	Arsenic	1711	28	mg/kg	J	28	57.14%
112084	Arsenic	1996	26	mg/kg	J	26	50.00%
116283	Arsenic	1994	25.1	mg/kg	-	25.1	42.85%
067032	Arsenic	1710	20.7	mg/kg	-	20.7	35.71%
067064	Arsenic	1709	16.3	mg/kg	-	16.3	28.57%
112077	Arsenic	1996	14.5	mg/kg	J	14.5	21.42%
116264	Arsenic	1994	12.1	mg/kg	-	12.1	14.28%
067102	Arsenic	1708	7.4	mg/kg	J	7.4	7.14%
067096	Arsenic	1708	7.1	mg/kg	J	7.1	0.00%

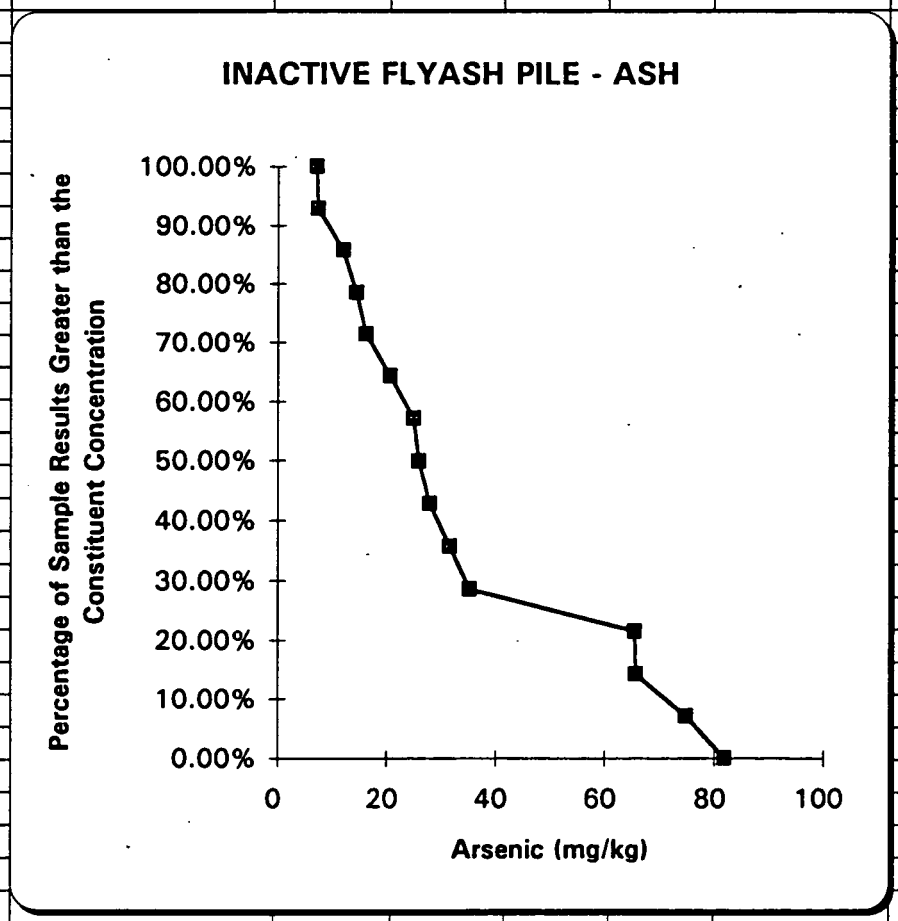

TABLE A.4-16
INACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
067102	Dibenzo(a,h)anthracene	1708	930	ug/kg	U	465	100.00%
067096	Dibenzo(a,h)anthracene	1708	860	ug/kg	UJ	430	94.73%
116335	Dibenzo(a,h)anthracene	11056	570	ug/kg	U	285	89.47%
112045	Dibenzo(a,h)anthracene	1998	500	ug/kg	UJ	250	73.68%
112084	Dibenzo(a,h)anthracene	1996	500	ug/kg	U	250	73.68%
116283	Dibenzo(a,h)anthracene	1994	500	ug/kg	U	250	73.68%
067015	Dibenzo(a,h)anthracene	1711	480	ug/kg	U	240	68.42%
067604	Dibenzo(a,h)anthracene	1849	460	ug/kg	U	230	52.63%
116264	Dibenzo(a,h)anthracene	1994	460	ug/kg	U	230	52.63%
067029	Dibenzo(a,h)anthracene	1710	460	ug/kg	U	230	52.63%
067032	Dibenzo(a,h)anthracene	1710	450	ug/kg	U	225	47.36%
116192	Dibenzo(a,h)anthracene	1997	440	ug/kg	U	220	36.84%
067064	Dibenzo(a,h)anthracene	1709	440	ug/kg	U	220	36.84%
112077	Dibenzo(a,h)anthracene	1996	430	ug/kg	U	215	26.31%
067012	Dibenzo(a,h)anthracene	1711	430	ug/kg	U	215	26.31%
067609	Dibenzo(a,h)anthracene	1849	420	ug/kg	U	210	15.78%
116090	Dibenzo(a,h)anthracene	1995	420	ug/kg	U	210	15.78%
067627	Dibenzo(a,h)anthracene	1850	410	ug/kg	U	205	5.26%
067071	Dibenzo(a,h)anthracene	1709	410	ug/kg	U	205	5.26%
067632	Dibenzo(a,h)anthracene	1850	400	ug/kg	U	200	0.00%

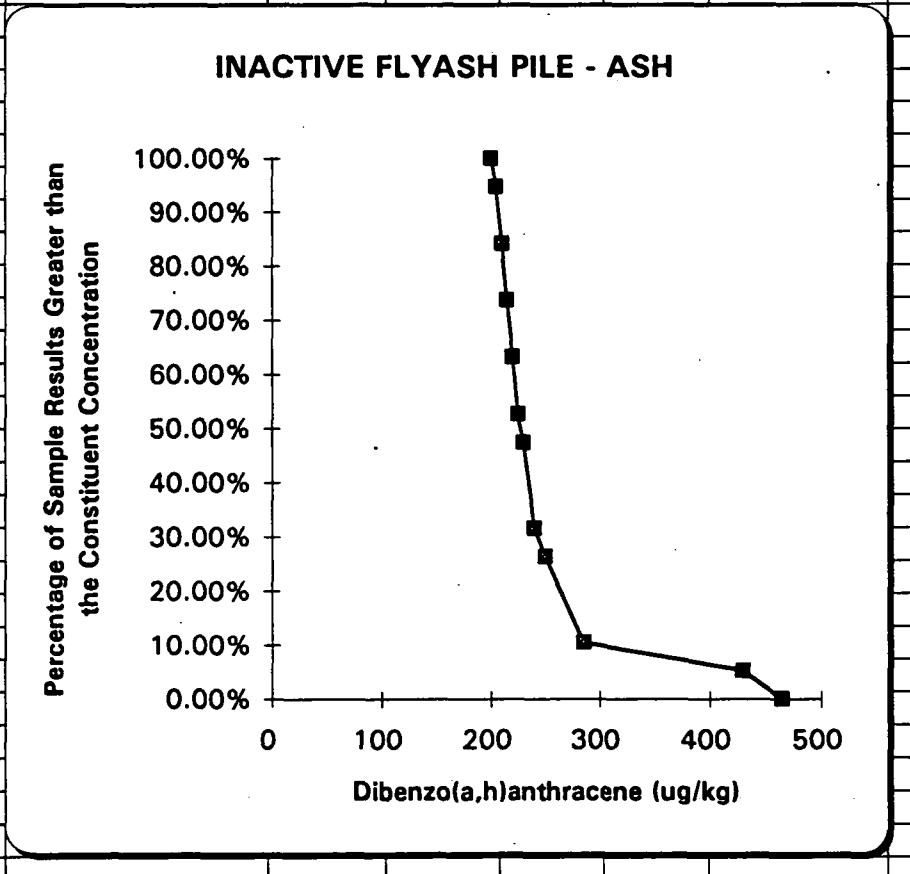

TABLE A.4-16
INACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
067072	Neptunium-237	1709	0.78	pci/g	J	0.78	100.00%
112077	Neptunium-237	1996	0.48	pci/g	N	0.48	90.90%
067010	Neptunium-237	1711	0.6	pci/g	UJ	0.3	27.27%
067014	Neptunium-237	1711	0.6	pci/g	UJ	0.3	27.27%
067028	Neptunium-237	1710	0.6	pci/g	UJ	0.3	27.27%
067062	Neptunium-237	1709	0.6	pci/g	UJ	0.3	27.27%
067081	Neptunium-237	1709	0.6	pci/g	UJ	0.3	27.27%
067095	Neptunium-237	1708	0.6	pci/g	UJ	0.3	27.27%
067101	Neptunium-237	1708	0.6	pci/g	UJ	0.3	27.27%
112082	Neptunium-237	1996	0.27	pci/g	N	0.27	18.18%
116192	Neptunium-237	1997	0.16	pci/g	N	0.16	9.09%
112045	Neptunium-237	1998	0.113	pci/g	N	0.113	0.00%

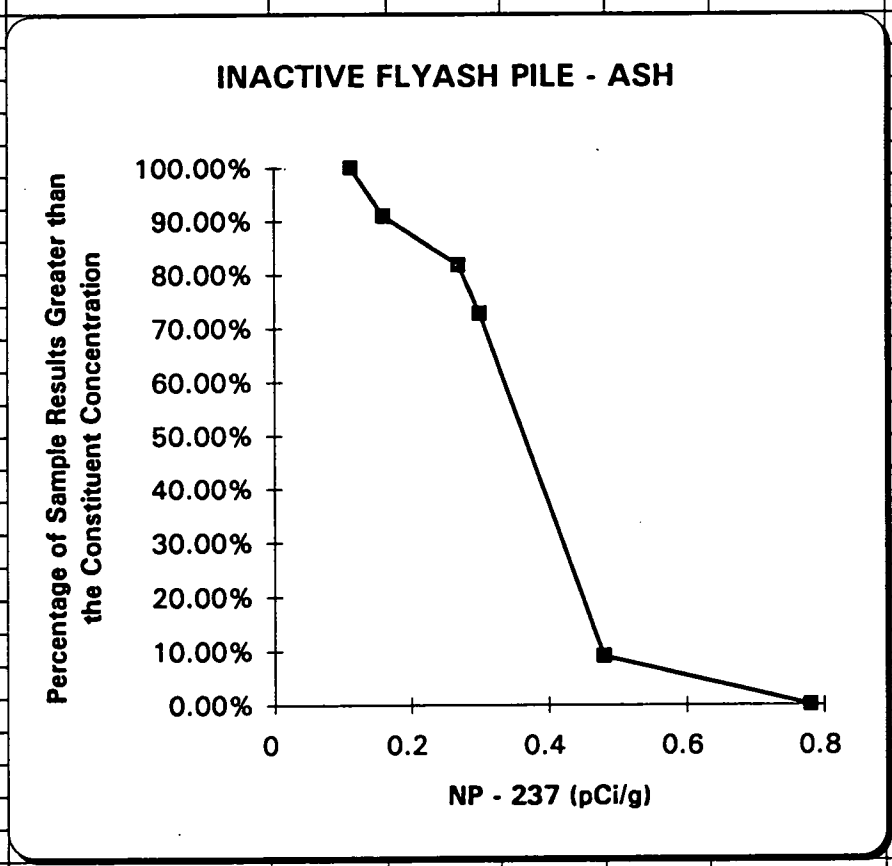

TABLE A.4-16
INACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
067014	Radium-226	1711	4.11	pci/g	-	4.11	100.00%
112045	Radium-226	1998	3.44	pci/g	-	3.44	92.85%
116090	Radium-226	1995	3.18	pci/g	-	3.18	85.71%
067095	Radium-226	1708	3.07	pci/g	J	3.07	78.57%
116264	Radium-226	1994	2.96	pci/g	-	2.96	71.42%
116192	Radium-226	1997	2.85	pci/g	-	2.85	64.28%
116283	Radium-226	1994	2.8	pci/g	-	2.8	57.14%
067072	Radium-226	1709	2.79	pci/g	-	2.79	50.00%
112077	Radium-226	1996	2.78	pci/g	J	2.78	42.85%
067010	Radium-226	1711	2.74	pci/g	-	2.74	35.71%
067101	Radium-226	1708	2.66	pci/g	J	2.66	28.57%
112082	Radium-226	1996	2.54	pci/g	J	2.54	21.42%
067028	Radium-226	1710	2.35	pci/g	-	2.35	14.28%
067081	Radium-226	1709	2.13	pci/g	-	2.13	7.14%
067062	Radium-226	1709	1.96	pci/g	-	1.96	0.00%

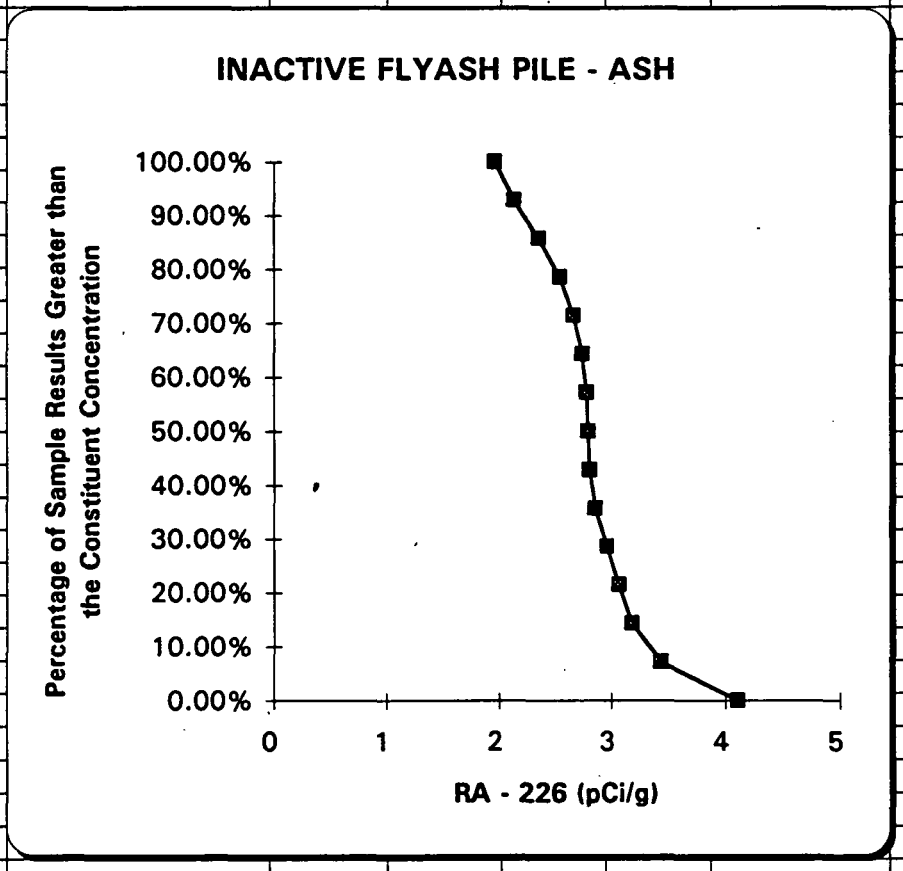

TABLE A.4-16
INACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
067095	Radium-228	1708	3.13	pci/g	J	3.13	100.00%
116264	Radium-228	1994	2.97	pci/g	-	2.97	92.85%
067014	Radium-228	1711	2.67	pci/g	-	2.67	85.71%
116283	Radium-228	1994	2.65	pci/g	-	2.65	78.57%
116090	Radium-228	1995	2.59	pci/g	-	2.59	71.42%
112045	Radium-228	1998	2.51	pci/g	-	2.51	64.28%
067028	Radium-228	1710	2.46	pci/g	-	2.46	50.00%
067101	Radium-228	1708	2.46	pci/g	J	2.46	50.00%
112077	Radium-228	1996	2.36	pci/g	-	2.36	42.85%
116192	Radium-228	1997	2.22	pci/g	-	2.22	35.71%
067072	Radium-228	1709	2.2	pci/g	-	2.2	28.57%
067081	Radium-228	1709	2.19	pci/g	-	2.19	21.42%
067010	Radium-228	1711	2.16	pci/g	-	2.16	14.28%
112082	Radium-228	1996	1.96	pci/g	-	1.96	7.14%
067062	Radium-228	1709	1.66	pci/g	-	1.66	0.00%

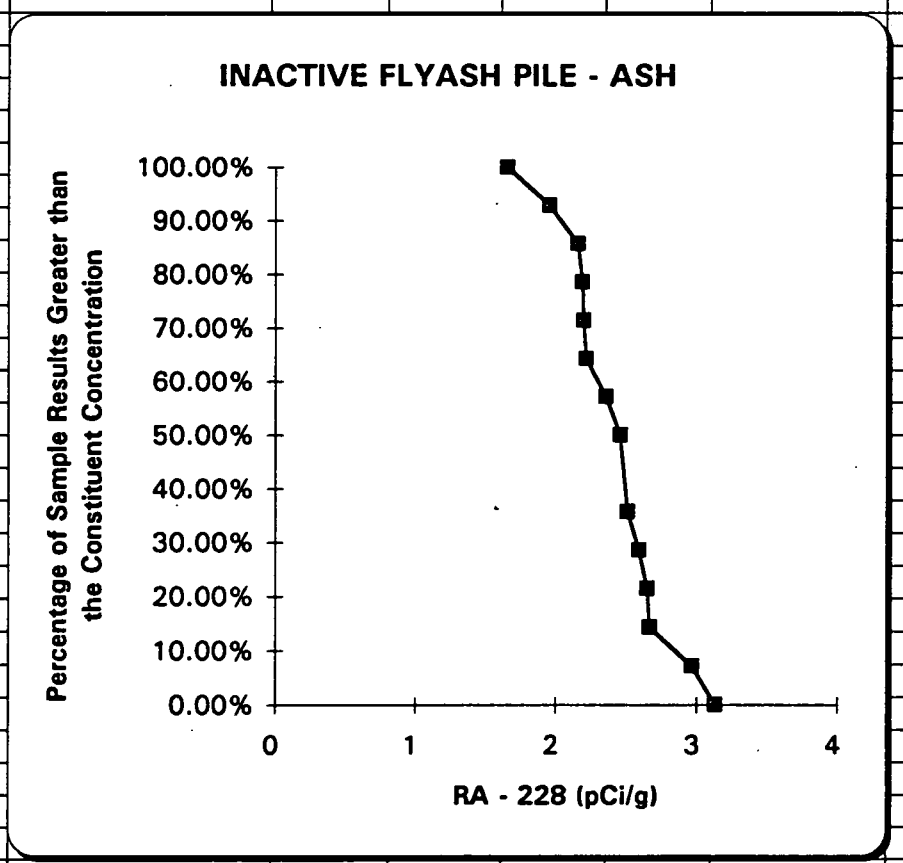

TABLE A.4-16
INACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
067010	Technetium-99	1711	0.9	pci/g	U	0.45	50.00%
067014	Technetium-99	1711	0.9	pci/g	U	0.45	50.00%
067028	Technetium-99	1710	0.9	pci/g	U	0.45	50.00%
067062	Technetium-99	1709	0.9	pci/g	U	0.45	50.00%
067072	Technetium-99	1709	0.9	pci/g	U	0.45	50.00%
067081	Technetium-99	1709	0.9	pci/g	UJ	0.45	50.00%
067095	Technetium-99	1708	0.9	pci/g	U	0.45	50.00%
067101	Technetium-99	1708	0.9	pci/g	U	0.45	50.00%
112077	Technetium-99	1996	0.391	pci/g	UJ	0.1955	42.85%
112082	Technetium-99	1996	0.381	pci/g	UJ	0.1905	28.57%
116264	Technetium-99	1994	0.381	pci/g	UJ	0.1905	28.57%
112045	Technetium-99	1998	0.36	pci/g	UJ	0.18	14.28%
116090	Technetium-99	1995	0.36	pci/g	UJ	0.18	14.28%
116192	Technetium-99	1997	0.34	pci/g	UJ	0.17	7.14%
116283	Technetium-99	1994	0.207	pci/g	UJ	0.1035	0.00%

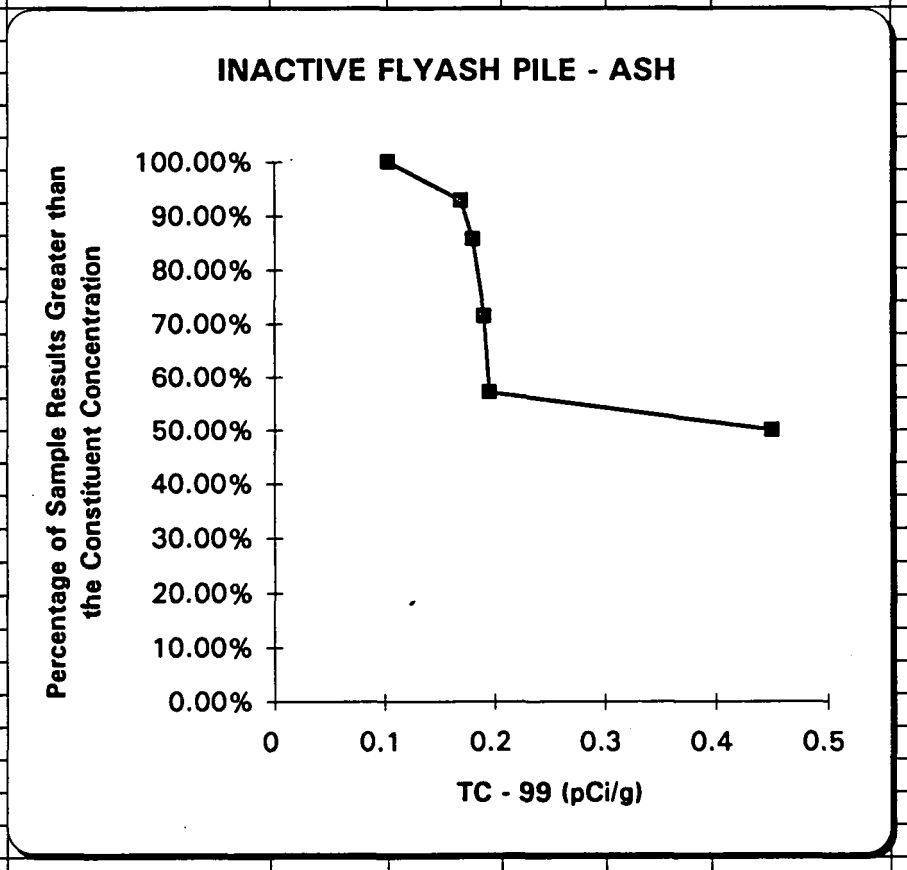

TABLE A.4-16
INACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Units	Qualifier	Adjusted Result	Percentile
067014	Thorium-228	1711	pci/g	-	3.34	100.00%
067095	Thorium-228	1708	pci/g	J	3.14	92.30%
116264	Thorium-228	1994	pci/g	-	3.08	84.61%
067072	Thorium-228	1709	pci/g	J	2.78	76.92%
067101	Thorium-228	1708	pci/g	J	2.7	69.23%
112082	Thorium-228	1996	pci/g	-	2.65	61.53%
067028	Thorium-228	1710	pci/g	J	2.64	53.84%
116283	Thorium-228	1994	pci/g	-	2.62	46.15%
067081	Thorium-228	1709	pci/g	-	2.51	38.46%
116192	Thorium-228	1997	pci/g	J	2.36	30.76%
116090	Thorium-228	1995	pci/g	J	2.26	23.07%
112077	Thorium-228	1996	pci/g	-	2.24	15.38%
067062	Thorium-228	1709	pci/g	J	2.08	7.69%
067010	Thorium-228	1711	pci/g	J	0.79	0.00%

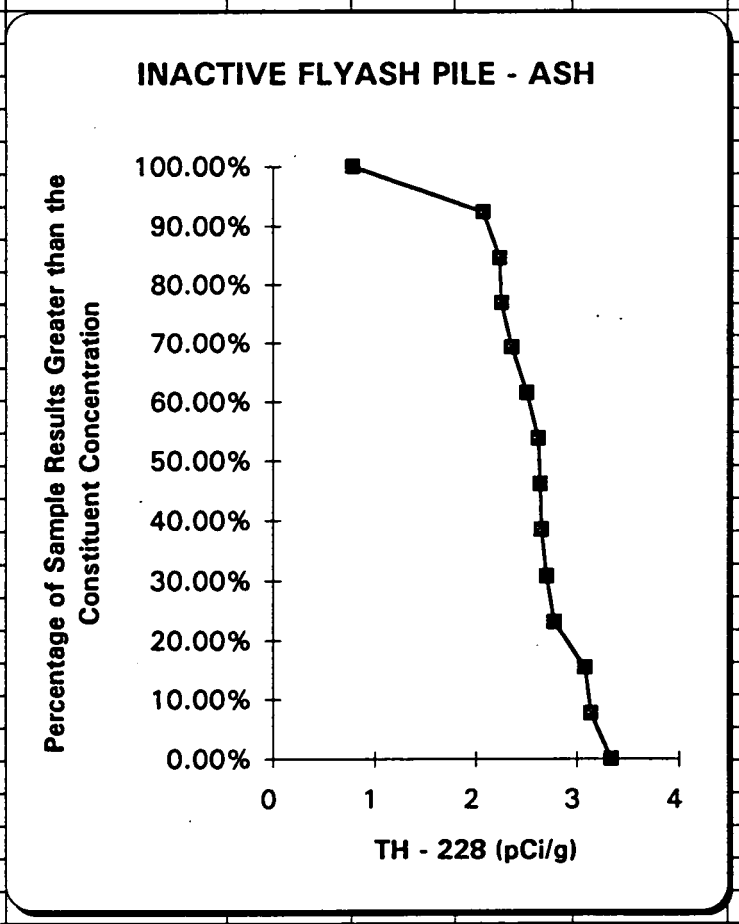

TABLE A.4-16
INACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Units	Qualifier	Adjusted Result	Percentile
112077	Thorium-230	1996	pci/g	-	8.8	100.00%
067014	Thorium-230	1711	pci/g	-	6.09	92.30%
112082	Thorium-230	1996	pci/g	-	4.7	84.61%
067072	Thorium-230	1709	pci/g	J	4.5	76.92%
116090	Thorium-230	1995	pci/g	J	4.14	69.23%
067062	Thorium-230	1709	pci/g	J	3.74	61.53%
067028	Thorium-230	1710	pci/g	J	3.31	53.84%
067081	Thorium-230	1709	pci/g	-	3.07	46.15%
116192	Thorium-230	1997	pci/g	J	3.05	38.46%
067095	Thorium-230	1708	pci/g	J	2.98	30.76%
116264	Thorium-230	1994	pci/g	-	2.95	23.07%
116283	Thorium-230	1994	pci/g	-	2.91	15.38%
067101	Thorium-230	1708	pci/g	J	2.73	7.69%
067010	Thorium-230	1711	pci/g	J	1.41	0.00%

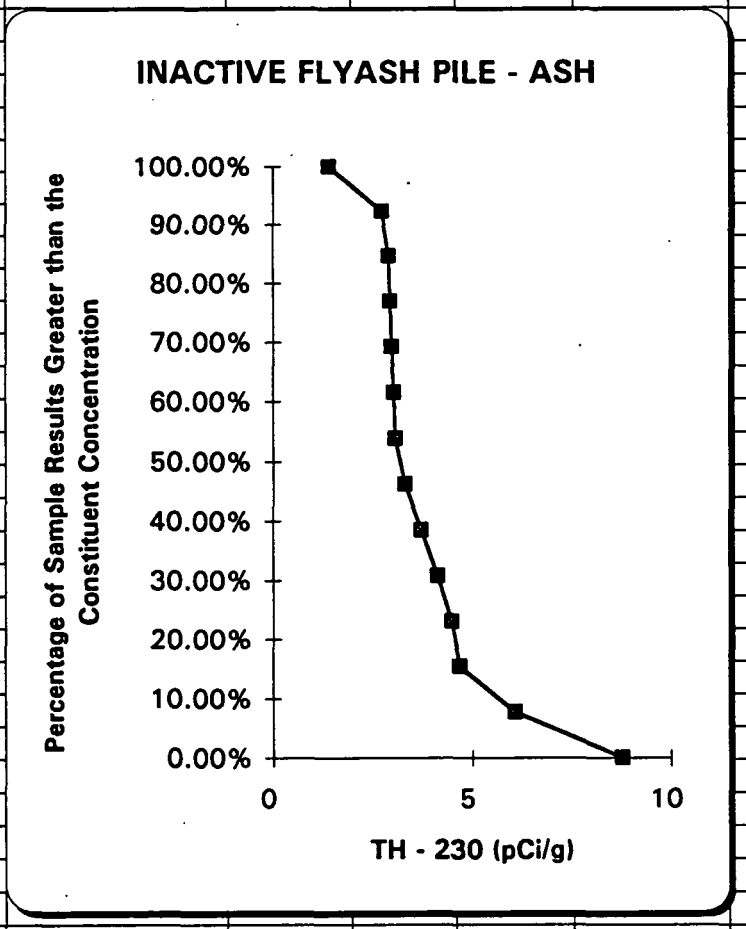

TABLE A.4-16
INACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Units	Qualifier	Adjusted Result	Percentile
067014	Thorium-232	1711	pci/g	-	3.1	100.00%
116264	Thorium-232	1994	pci/g	-	2.65	84.61%
067072	Thorium-232	1709	pci/g	J	2.65	84.61%
112082	Thorium-232	1996	pci/g	-	2.6	76.92%
116283	Thorium-232	1994	pci/g	-	2.54	69.23%
067028	Thorium-232	1710	pci/g	J	2.47	61.53%
067095	Thorium-232	1708	pci/g	J	2.42	53.84%
116192	Thorium-232	1997	pci/g	J	2.34	46.15%
067081	Thorium-232	1709	pci/g	-	2.21	38.46%
067062	Thorium-232	1709	pci/g	J	2.02	30.76%
116090	Thorium-232	1995	pci/g	J	1.94	23.07%
112077	Thorium-232	1996	pci/g	-	1.84	15.38%
067101	Thorium-232	1708	pci/g	J	1.81	7.69%
067010	Thorium-232	1711	pci/g	J	0.8	0.00%

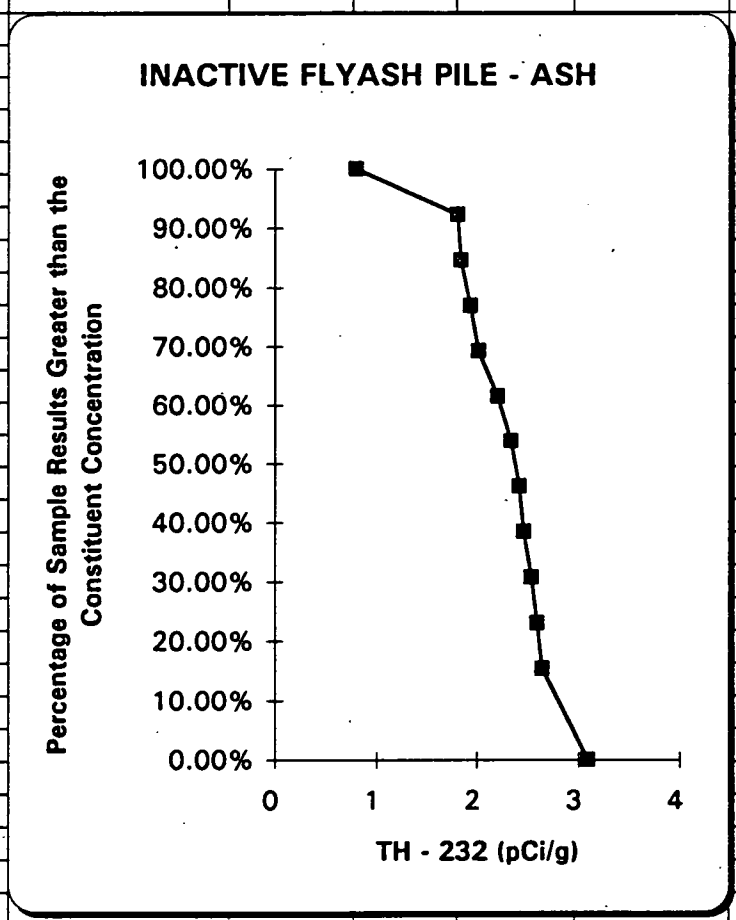

TABLE A.4-16
INACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Units	Qualifier	Adjusted Result	Percentile
067010	Uranium, Total	1711	mg/kg	-	123	100.00%
067062	Uranium, Total	1709	mg/kg	-	67	92.85%
112077	Uranium, Total	1996	mg/kg	-	38.5	85.71%
067028	Uranium, Total	1710	mg/kg	J	38.2	78.57%
112082	Uranium, Total	1996	mg/kg	J	19.7	71.42%
067014	Uranium, Total	1711	mg/kg	J	18.2	64.28%
067095	Uranium, Total	1708	mg/kg	J	15.6	57.14%
067072	Uranium, Total	1709	mg/kg	J	14.5	50.00%
067081	Uranium, Total	1709	mg/kg	J	14.4	42.85%
112045	Uranium, Total	1998	mg/kg	-	14.3	35.71%
116283	Uranium, Total	1994	mg/kg	-	13.3	28.57%
116264	Uranium, Total	1994	mg/kg	-	12.8	21.42%
067101	Uranium, Total	1708	mg/kg	J	11.1	14.28%
116192	Uranium, Total	1997	mg/kg	J	10.9	7.14%
116090	Uranium, Total	1995	mg/kg	-	8.61	0.00%

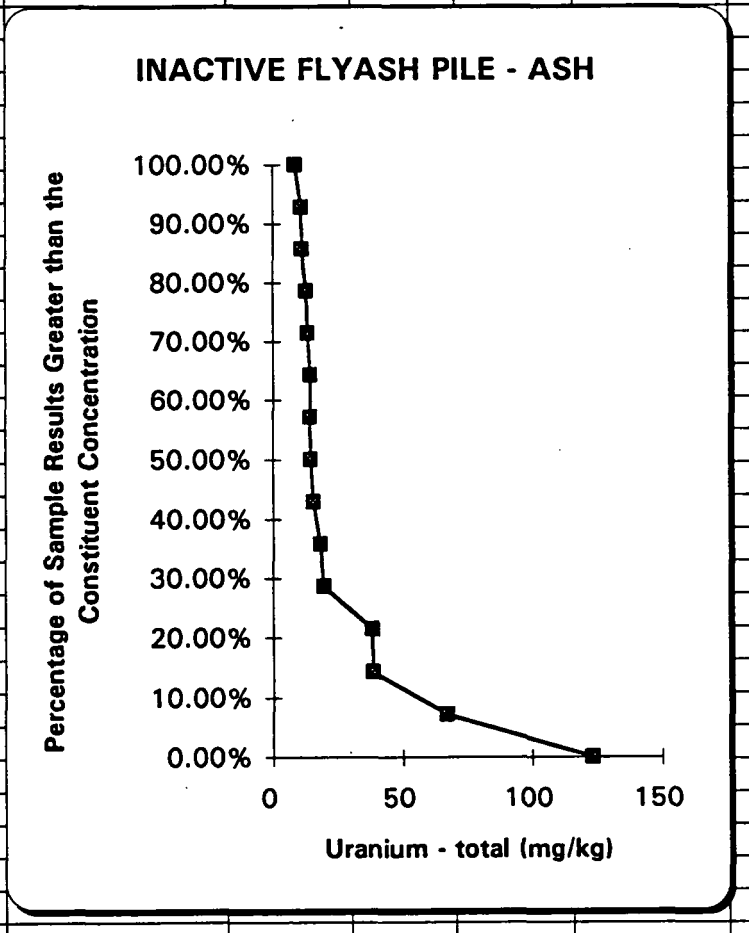

TABLE A.4-16
INACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Units	Qualifier	Adjusted Result	Percentile
067010	Uranium-234	1711	pci/g	-	42	100.00%
067028	Uranium-234	1710	pci/g	-	11.4	92.85%
112077	Uranium-234	1996	pci/g	J.	9.48	85.71%
067014	Uranium-234	1711	pci/g	-	5.93	78.57%
067072	Uranium-234	1709	pci/g	-	4.63	71.42%
067062	Uranium-234	1709	pci/g	-	4.4	64.28%
112045	Uranium-234	1998	pci/g	-	4.23	57.14%
116264	Uranium-234	1994	pci/g	-	3.95	50.00%
116192	Uranium-234	1997	pci/g	J	3.91	42.85%
067095	Uranium-234	1708	pci/g	J	3.65	35.71%
067081	Uranium-234	1709	pci/g	-	3.52	28.57%
067101	Uranium-234	1708	pci/g	J	2.88	21.42%
112082	Uranium-234	1996	pci/g	J	2.65	14.28%
116090	Uranium-234	1995	pci/g	-	2.63	7.14%
116283	Uranium-234	1994	pci/g	-	1.33	0.00%

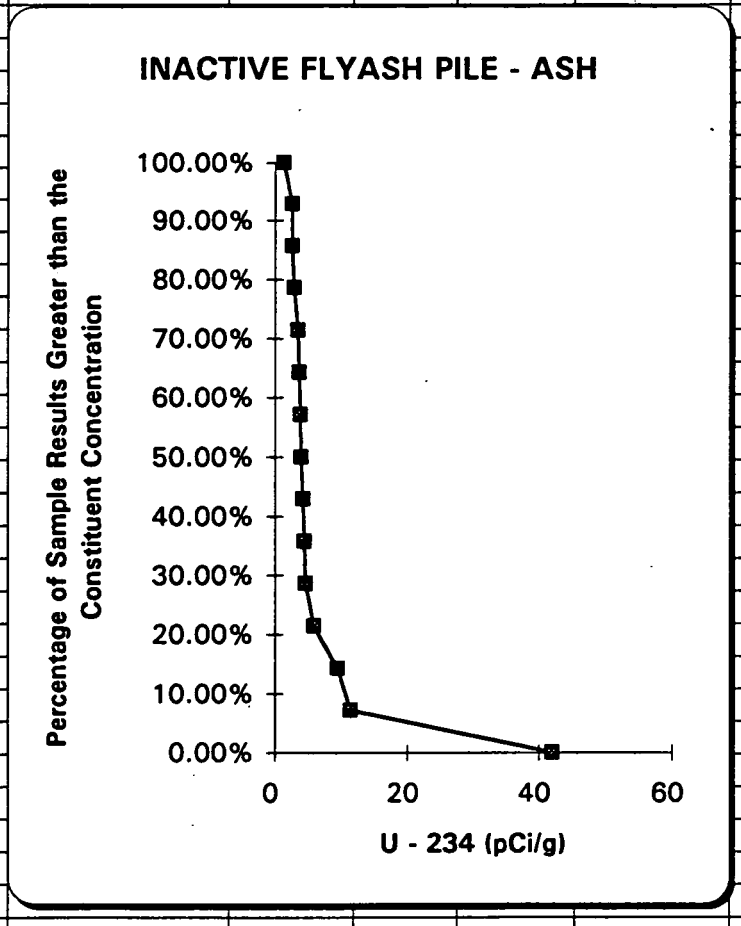

TABLE A.4-16
INACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Units	Qualifier	Adjusted Result	Percentile
067010	Uranium-235/236	1711	pci/g	-	5.34	100.00%
067062	Uranium-235/236	1709	pci/g	J	0.96	92.85%
067028	Uranium-235/236	1710	pci/g	J	0.88	85.71%
067014	Uranium-235/236	1711	pci/g	-	0.87	78.57%
112077	Uranium-235/236	1996	pci/g	J	0.73	71.42%
067072	Uranium-235/236	1709	pci/g	U	0.3	42.85%
067081	Uranium-235/236	1709	pci/g	U	0.3	42.85%
067095	Uranium-235/236	1708	pci/g	UJ	0.3	42.85%
067101	Uranium-235/236	1708	pci/g	UJ	0.3	42.85%
116192	Uranium-235/236	1997	pci/g	J	0.21	35.71%
112045	Uranium-235/236	1998	pci/g	J	0.19	28.57%
116264	Uranium-235/236	1994	pci/g	J	0.162	21.42%
112082	Uranium-235/236	1996	pci/g	J	0.16	14.28%
116090	Uranium-235/236	1995	pci/g	J	0.13	7.14%
116283	Uranium-235/236	1994	pci/g	J	0.0373	0.00%

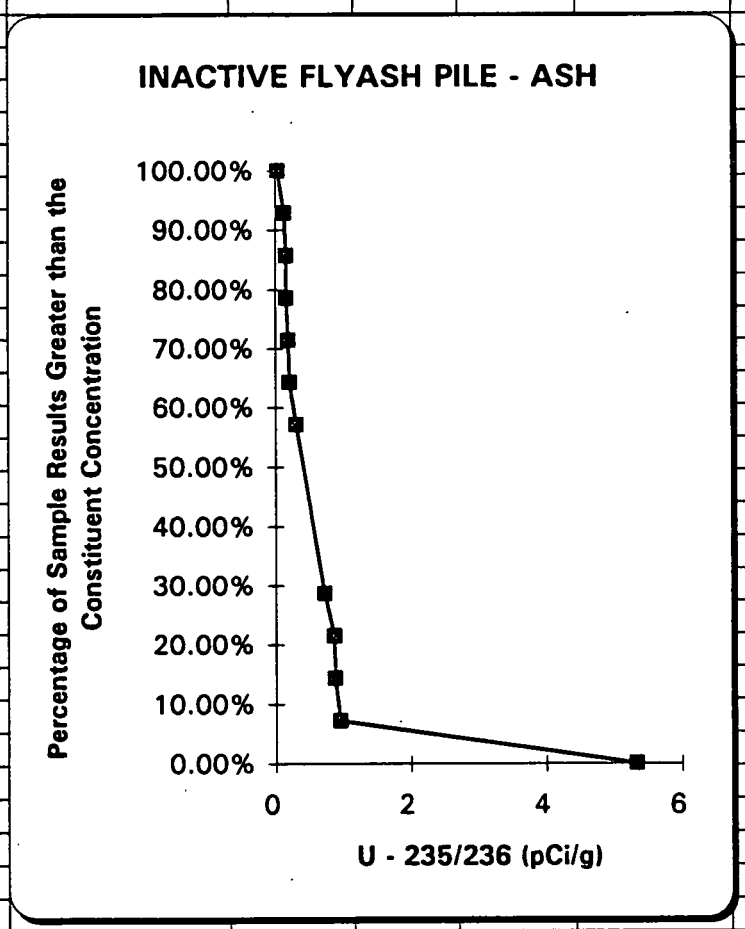

TABLE A.4-16
INACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Units	Qualifier	Adjusted Result	Percentile
067010	Uranium-238	1711	pci/g	-	40.1	100.00%
067028	Uranium-238	1710	pci/g	-	11.8	92.85%
112077	Uranium-238	1996	pci/g	J	9.9	85.71%
067014	Uranium-238	1711	pci/g	-	5.67	78.57%
067062	Uranium-238	1709	pci/g	-	5.6	71.42%
067072	Uranium-238	1709	pci/g	-	5.09	64.28%
112045	Uranium-238	1998	pci/g	-	4.46	57.14%
116192	Uranium-238	1997	pci/g	J	4.19	50.00%
067095	Uranium-238	1708	pci/g	J	3.94	42.85%
116264	Uranium-238	1994	pci/g	-	3.86	35.71%
067081	Uranium-238	1709	pci/g	-	3.8	28.57%
067101	Uranium-238	1708	pci/g	J	2.97	21.42%
112082	Uranium-238	1996	pci/g	J	2.84	14.28%
116090	Uranium-238	1995	pci/g	-	2.6	7.14%
116283	Uranium-238	1994	pci/g	-	1.54	0.00%

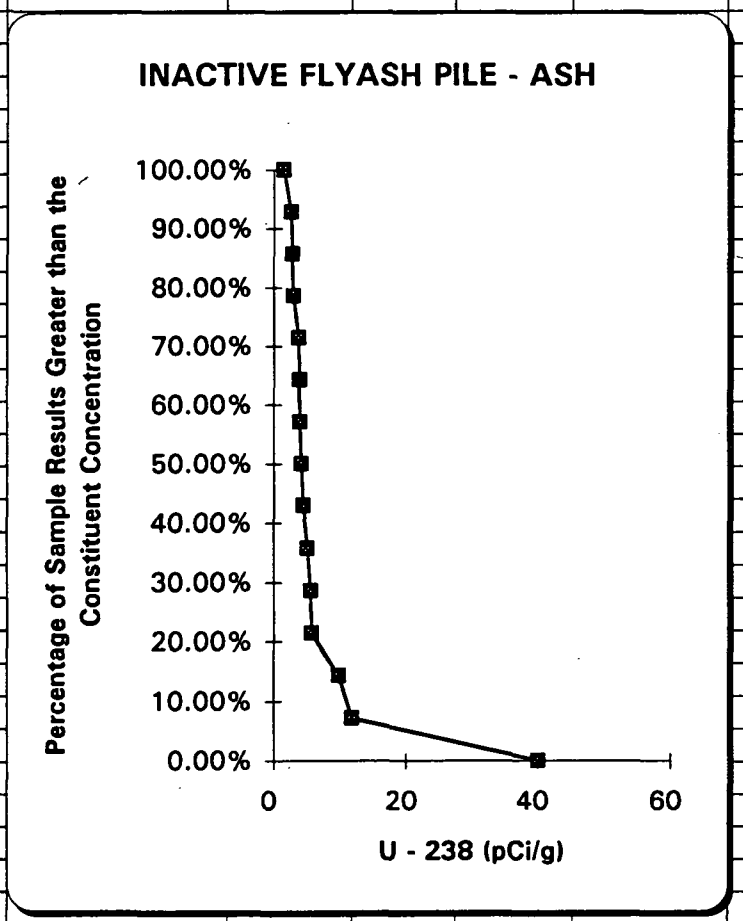

TABLE A.4-17
INACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
116441	Arsenic	11051	49.7	mg/kg	-	49.7	100.00%
116427	Arsenic	11052	35.5	mg/kg	-	35.5	94.44%
111790	Arsenic	IFP-SS-01	33.2	mg/kg	-	33.2	88.88%
112054	Arsenic	1998	10.9	mg/kg	J	10.9	83.33%
116080	Arsenic	1995	9.7	mg/kg	J	9.7	77.77%
116301	Arsenic	1994	6.8	mg/kg	-	6.8	72.22%
113492	Arsenic	11006	6.7	mg/kg	-	6.7	66.66%
111795	Arsenic	IFP-SS-06	6.2	mg/kg	-	6.2	61.11%
116252	Arsenic	1997	5.6	mg/kg	-	5.6	55.55%
111794	Arsenic	IFP-SS-05	5.2	mg/kg	-	5.2	50.00%
111791	Arsenic	IFP-SS-02	5.1	mg/kg	-	5.1	38.88%
111793	Arsenic	IFP-SS-04	5.1	mg/kg	-	5.1	38.88%
112057	Arsenic	1998	5	mg/kg	J	5	33.33%
116177	Arsenic	1997	4.7	mg/kg	-	4.7	27.77%
111796	Arsenic	IFP-SS-07	4.4	mg/kg	-	4.4	22.22%
116243	Arsenic	1997	4.2	mg/kg	-	4.2	16.66%
067047	Arsenic	1710	3	mg/kg	-	3	11.11%
111792	Arsenic	IFP-SS-03	1.9	mg/kg	J	1.9	5.55%
067112	Arsenic	1708	1.7	mg/kg	J	1.7	0.00%

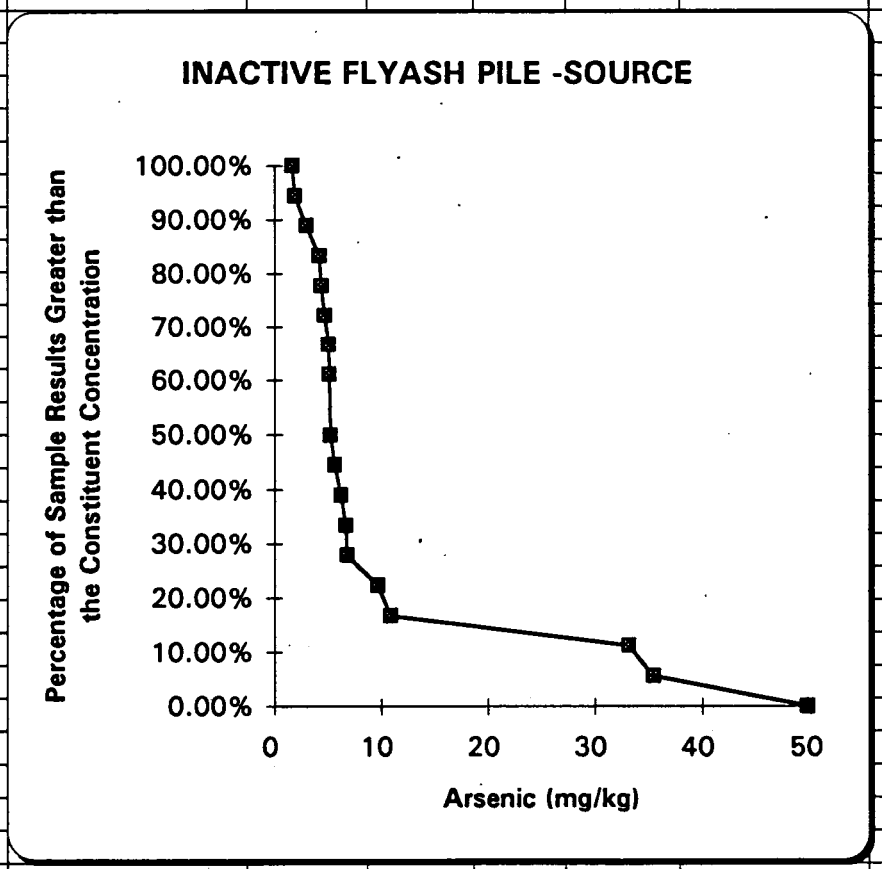

TABLE A.4-17
INACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111796	Dibenzo(a,h)anthracene	IFP-SS-07	2200	ug/kg	-	2200	100.00%
067112	Dibenzo(a,h)anthracene	1708	820	ug/kg	U	410	95.00%
111790	Dibenzo(a,h)anthracene	IFP-SS-01	560	ug/kg	U	280	90.00%
116331	Dibenzo(a,h)anthracene	11055	460	ug/kg	U	230	85.00%
112087	Dibenzo(a,h)anthracene	1996	450	ug/kg	U	225	75.00%
116441	Dibenzo(a,h)anthracene	11051	450	ug/kg	UJ	225	75.00%
116427	Dibenzo(a,h)anthracene	11052	440	ug/kg	U	220	70.00%
111793	Dibenzo(a,h)anthracene	IFP-SS-04	430	ug/kg	U	215	60.00%
111794	Dibenzo(a,h)anthracene	IFP-SS-05	430	ug/kg	U	215	60.00%
112057	Dibenzo(a,h)anthracene	1998	420	ug/kg	UJ	210	50.00%
111795	Dibenzo(a,h)anthracene	IFP-SS-06	420	ug/kg	U	210	50.00%
116301	Dibenzo(a,h)anthracene	1994	410	ug/kg	U	205	45.00%
116177	Dibenzo(a,h)anthracene	1997	400	ug/kg	U	200	35.00%
116243	Dibenzo(a,h)anthracene	1997	400	ug/kg	U	200	35.00%
111791	Dibenzo(a,h)anthracene	IFP-SS-02	390	ug/kg	U	195	25.00%
112054	Dibenzo(a,h)anthracene	1998	390	ug/kg	UJ	195	25.00%
116252	Dibenzo(a,h)anthracene	1997	380	ug/kg	U	190	20.00%
067047	Dibenzo(a,h)anthracene	1710	370	ug/kg	U	185	10.00%
116080	Dibenzo(a,h)anthracene	1995	370	ug/kg	U	185	10.00%
111792	Dibenzo(a,h)anthracene	IFP-SS-03	360	ug/kg	U	180	5.00%
113492	Dibenzo(a,h)anthracene	11006	2	ug/kg	J	2	0.00%

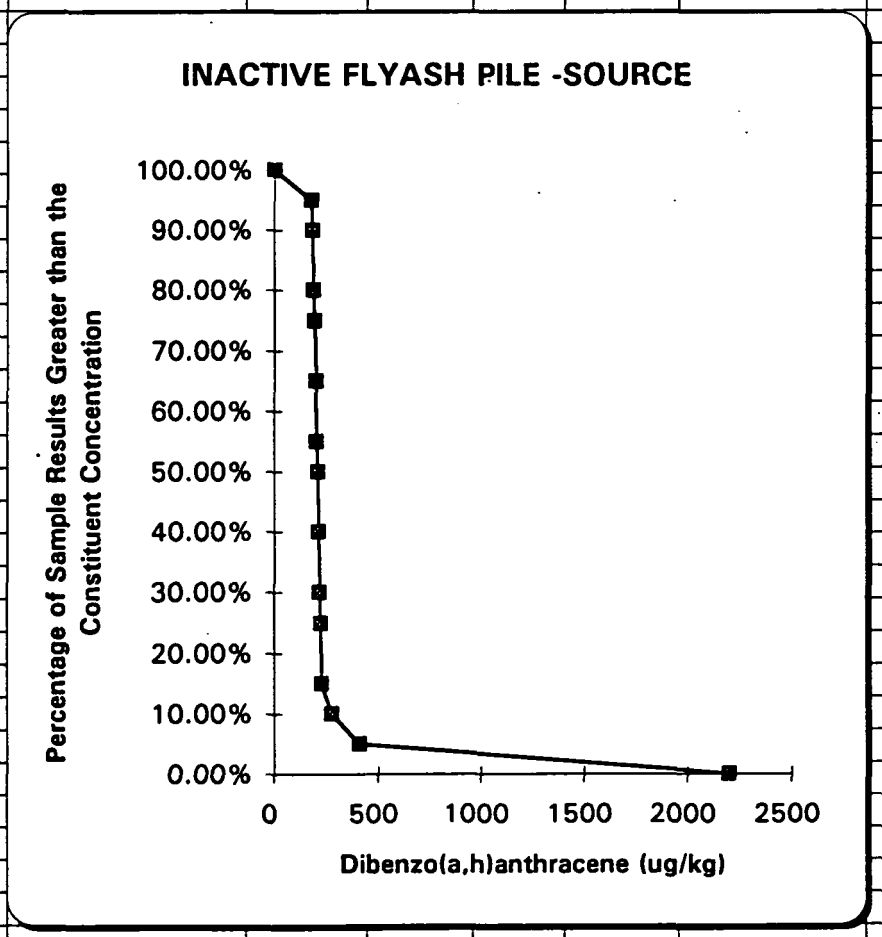

TABLE A.4-17
INACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
116438	Neptunium-237	11051	37.3	pci/g	N	37.3	100.00%
116441	Neptunium-237	11051	1.91	pci/g	N	1.91	95.00%
067046	Neptunium-237	1710	0.6	pci/g	J	0.6	85.00%
067111	Neptunium-237	1708	0.6	pci/g	J	0.6	85.00%
116080	Neptunium-237	1995	0.502	pci/g	N	0.502	80.00%
112057	Neptunium-237	1998	0.49	pci/g	N	0.49	70.00%
112073	Neptunium-237	1996	0.49	pci/g	N	0.49	70.00%
116427	Neptunium-237	11052	0.31	pci/g	N	0.31	65.00%
067019	Neptunium-237	1711	0.6	pci/g	UJ	0.3	45.00%
067121	Neptunium-237	1791	0.6	pci/g	UJ	0.3	45.00%
007233	Neptunium-237	1016	0.6	pci/g	UJ	0.3	45.00%
116177	Neptunium-237	1997	0.3	pci/g	N	0.3	45.00%
116252	Neptunium-237	1997	0.26	pci/g	N	0.26	40.00%
116301	Neptunium-237	1994	0.228	pci/g	N	0.228	35.00%
116243	Neptunium-237	1997	0.18	pci/g	N	0.18	30.00%
112054	Neptunium-237	1998	0.165	pci/g	N	0.165	25.00%
111793	Neptunium-237	IFP-SS-04	0.137	pci/g	N	0.137	20.00%
113492	Neptunium-237	11006	0.118	pci/g	N	0.118	15.00%
111794	Neptunium-237	IFP-SS-05	0.0411	pci/g	N	0.0411	10.00%
111796	Neptunium-237	IFP-SS-07	0.0351	pci/g	N	0.0351	5.00%
111792	Neptunium-237	IFP-SS-03	0.0298	pci/g	N	0.0298	0.00%

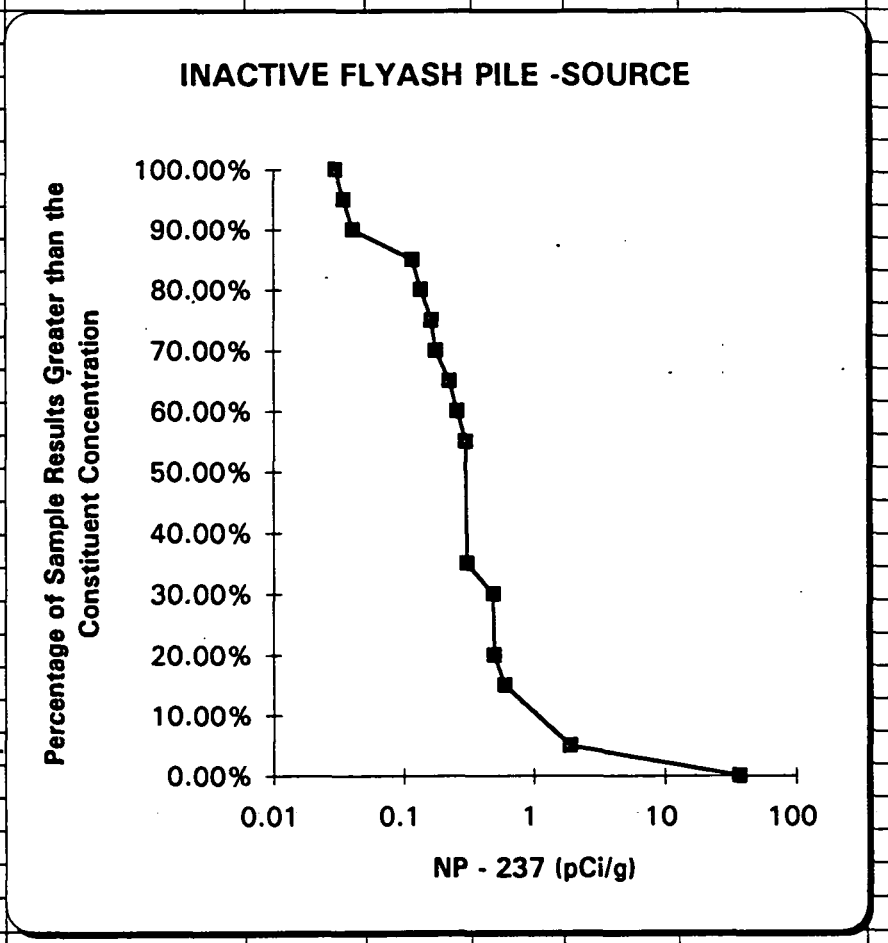

TABLE A.4-17
INACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
116441	Radium-226	11051	42.3	pci/g	-	42.3	100.00%
116438	Radium-226	11051	37.8	pci/g	-	37.8	96.00%
067046	Radium-226	1710	36	pci/g	-	36	92.00%
113492	Radium-226	11006	9.74	pci/g	-	9.74	88.00%
067043	Radium-226	1710	6.36	pci/g	J	6.36	84.00%
116427	Radium-226	11052	4.06	pci/g	-	4.06	80.00%
116301	Radium-226	1994	3.15	pci/g	-	3.15	76.00%
112073	Radium-226	1996	2.86	pci/g	-	2.86	72.00%
111790	Radium-226	IFP-SS-01	2.7	pci/g	-	2.7	68.00%
112057	Radium-226	1998	2.07	pci/g	-	2.07	64.00%
067111	Radium-226	1708	1.72	pci/g	J	1.72	60.00%
116080	Radium-226	1995	1.71	pci/g	-	1.71	56.00%
067019	Radium-226	1711	1.48	pci/g	-	1.48	52.00%
112054	Radium-226	1998	1.46	pci/g	-	1.46	48.00%
067121	Radium-226	1791	1.39	pci/g	J	1.39	44.00%
116177	Radium-226	1997	1.3	pci/g	-	1.3	40.00%
116243	Radium-226	1997	1.26	pci/g	-	1.26	36.00%
111793	Radium-226	IFP-SS-04	1.22	pci/g	-	1.22	28.00%
116252	Radium-226	1997	1.22	pci/g	-	1.22	28.00%
111794	Radium-226	IFP-SS-05	1.05	pci/g	-	1.05	24.00%
111796	Radium-226	IFP-SS-07	1.04	pci/g	-	1.04	20.00%
111795	Radium-226	IFP-SS-06	1.02	pci/g	-	1.02	16.00%
067618	Radium-226	1849	0.95	pci/g	J	0.95	12.00%
111791	Radium-226	IFP-SS-02	0.899	pci/g	-	0.899	8.00%
007233	Radium-226	1016	0.7	pci/g	J	0.7	4.00%
111792	Radium-226	IFP-SS-03	0.523	pci/g	-	0.523	0.00%

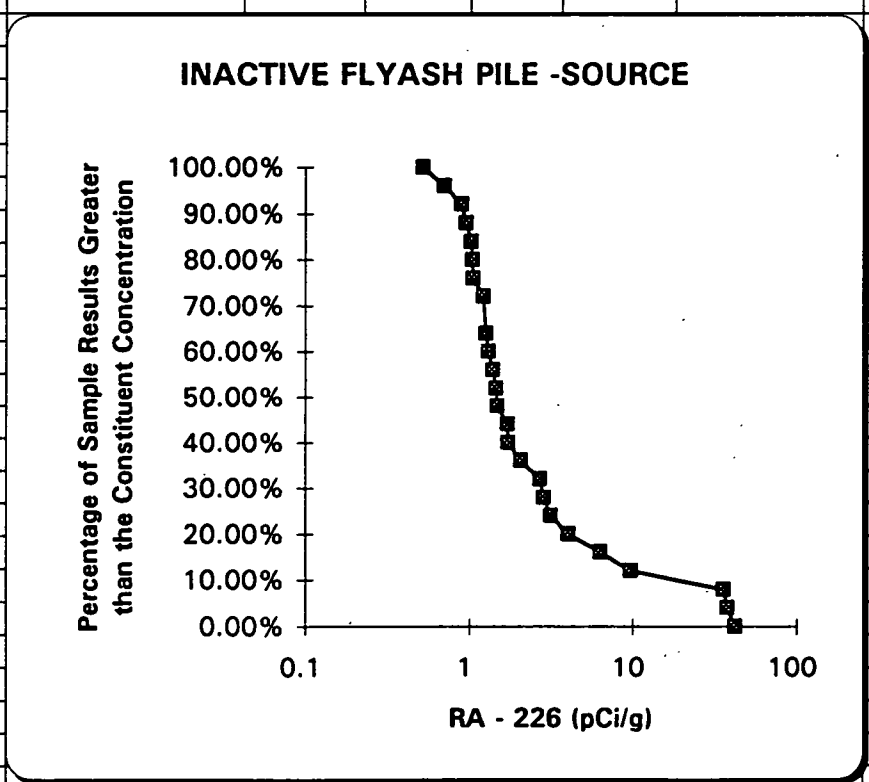

TABLE A.4-17
INACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067046	Radium-228	1710	3.12	pci/g	-	3.12	100.00%
116438	Radium-228	11051	3.04	pci/g	-	3.04	96.00%
067043	Radium-228	1710	2.88	pci/g	J	2.88	92.00%
116080	Radium-228	1995	2.72	pci/g	-	2.72	88.00%
111790	Radium-228	IFP-SS-01	2.62	pci/g	-	2.62	84.00%
112073	Radium-228	1996	2.34	pci/g	-	2.34	80.00%
116441	Radium-228	11051	2.29	pci/g	-	2.29	76.00%
116301	Radium-228	1994	1.8	pci/g	-	1.8	72.00%
116427	Radium-228	11052	1.6	pci/g	-	1.6	68.00%
112057	Radium-228	1998	1.59	pci/g	-	1.59	64.00%
111795	Radium-228	IFP-SS-06	1.48	pci/g	-	1.48	60.00%
116177	Radium-228	1997	1.29	pci/g	-	1.29	56.00%
067019	Radium-228	1711	1.27	pci/g	-	1.27	52.00%
113492	Radium-228	11006	1.23	pci/g	-	1.23	48.00%
111793	Radium-228	IFP-SS-04	1.2	pci/g	-	1.2	44.00%
112054	Radium-228	1998	1.18	pci/g	-	1.18	40.00%
067111	Radium-228	1708	1.09	pci/g	J	1.09	36.00%
067121	Radium-228	1791	1.03	pci/g	J	1.03	32.00%
116252	Radium-228	1997	0.99	pci/g	-	0.99	28.00%
111791	Radium-228	IFP-SS-02	0.966	pci/g	-	0.966	24.00%
116243	Radium-228	1997	0.91	pci/g	-	0.91	20.00%
111794	Radium-228	IFP-SS-05	0.827	pci/g	-	0.827	16.00%
007233	Radium-228	1016	0.8	pci/g	J	0.8	12.00%
111796	Radium-228	IFP-SS-07	0.758	pci/g	-	0.758	8.00%
067618	Radium-228	1849	0.74	pci/g	J	0.74	4.00%
111792	Radium-228	IFP-SS-03	0.415	pci/g	J	0.415	0.00%

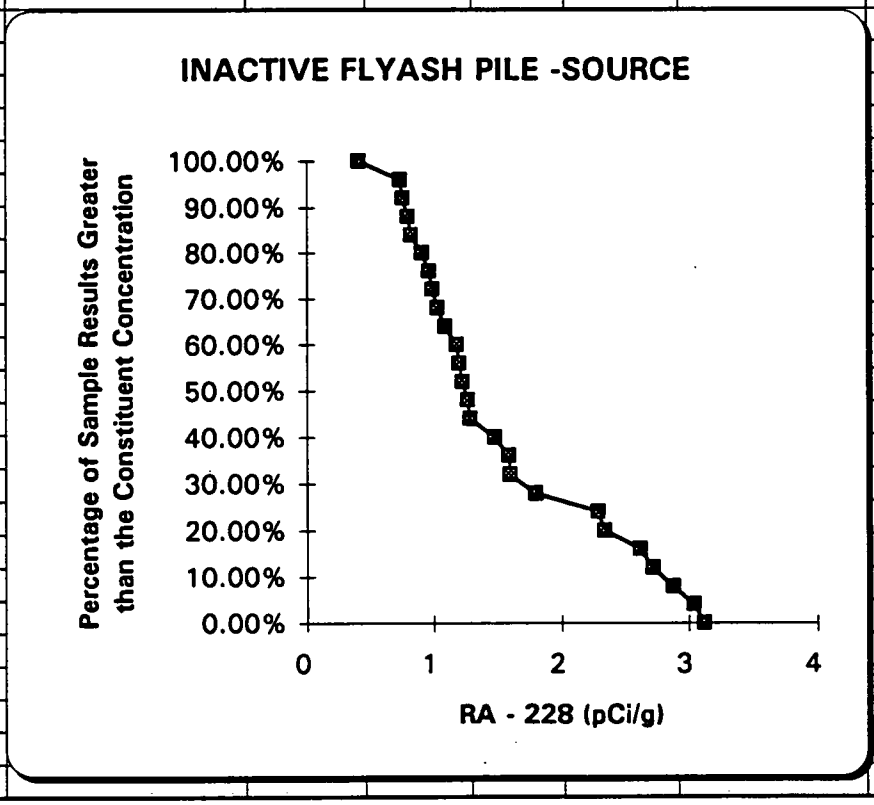

TABLE A.4-17
INACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067046	Technetium-99	1710	0.9	pci/g	J	0.9	96.00%
067618	Technetium-99	1849	0.9	pci/g	UJ	0.45	76.00%
067019	Technetium-99	1711	0.9	pci/g	U	0.45	76.00%
067121	Technetium-99	1791	0.9	pci/g	U	0.45	76.00%
067043	Technetium-99	1710	0.9	pci/g	U	0.45	76.00%
067111	Technetium-99	1708	0.9	pci/g	U	0.45	76.00%
113492	Technetium-99	11006	0.472	pci/g	UJ	0.236	72.00%
116438	Technetium-99	11051	0.46	pci/g	UJ	0.23	68.00%
112073	Technetium-99	1996	0.39	pci/g	UJ	0.195	60.00%
116441	Technetium-99	11051	0.39	pci/g	UJ	0.195	60.00%
116427	Technetium-99	11052	0.373	pci/g	UJ	0.1865	56.00%
116252	Technetium-99	1997	0.37	pci/g	UJ	0.185	52.00%
112057	Technetium-99	1998	0.36	pci/g	UJ	0.18	36.00%
112054	Technetium-99	1998	0.36	pci/g	UJ	0.18	36.00%
116080	Technetium-99	1995	0.36	pci/g	UJ	0.18	36.00%
116301	Technetium-99	1994	0.36	pci/g	UJ	0.18	36.00%
111795	Technetium-99	IFP-SS-06	0.343	pci/g	UJ	0.1715	32.00%
111792	Technetium-99	IFP-SS-03	0.342	pci/g	UJ	0.171	28.00%
111794	Technetium-99	IFP-SS-05	0.336	pci/g	UJ	0.168	24.00%
116177	Technetium-99	1997	0.33	pci/g	UJ	0.165	16.00%
116243	Technetium-99	1997	0.33	pci/g	UJ	0.165	16.00%
111793	Technetium-99	IFP-SS-04	0.323	pci/g	UJ	0.1615	12.00%
111791	Technetium-99	IFP-SS-02	0.319	pci/g	UJ	0.1595	8.00%
111790	Technetium-99	IFP-SS-01	0.316	pci/g	UJ	0.158	4.00%
111796	Technetium-99	IFP-SS-07	0.312	pci/g	UJ	0.156	0.00%

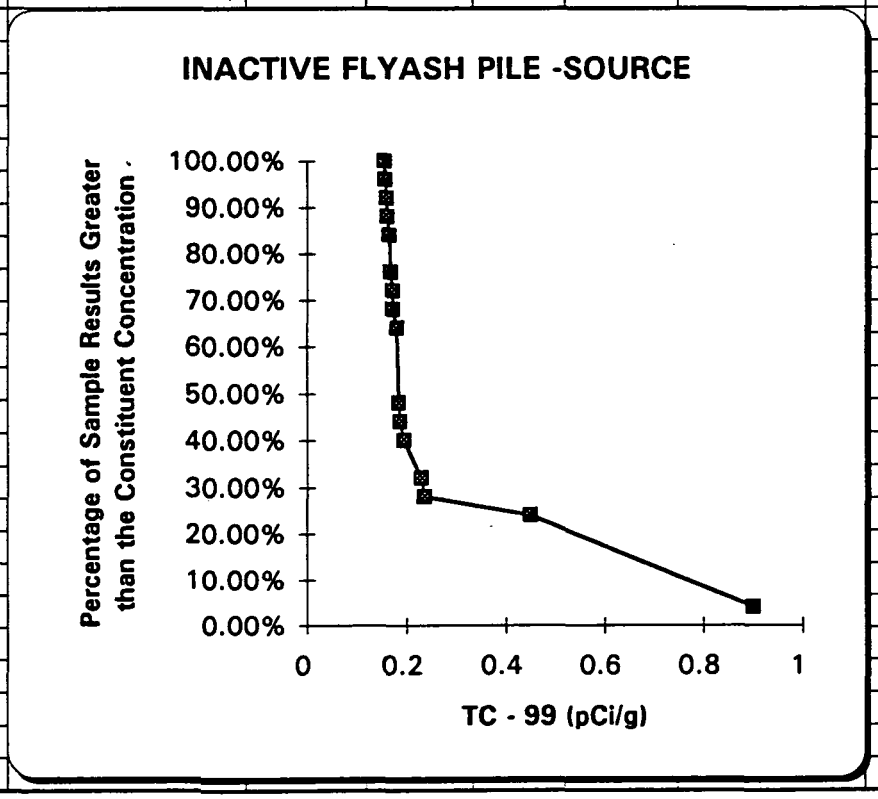

TABLE A.4-17
INACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067043	Thorium-228	1710	4.1	pci/g	J	4.1	100.00%
067046	Thorium-228	1710	3.03	pci/g	J	3.03	95.00%
111790	Thorium-228	IFP-SS-01	2.71	pci/g	-	2.71	90.00%
116080	Thorium-228	1995	2.61	pci/g	-	2.61	85.00%
116438	Thorium-228	11051	2.44	pci/g	-	2.44	80.00%
112073	Thorium-228	1996	2.09	pci/g	-	2.09	75.00%
067111	Thorium-228	1708	1.59	pci/g	J	1.59	70.00%
067019	Thorium-228	1711	1.56	pci/g	J	1.56	65.00%
067618	Thorium-228	1849	1.44	pci/g	-	1.44	60.00%
116427	Thorium-228	11052	1.41	pci/g	-	1.41	55.00%
116441	Thorium-228	11051	1.38	pci/g	-	1.38	50.00%
116301	Thorium-228	1994	1.32	pci/g	-	1.32	45.00%
112057	Thorium-228	1998	1.3	pci/g	-	1.3	40.00%
112054	Thorium-228	1998	1.17	pci/g	-	1.17	35.00%
116177	Thorium-228	1997	1.16	pci/g	J	1.16	30.00%
067121	Thorium-228	1791	1.11	pci/g	J	1.11	25.00%
007233	Thorium-228	1016	1.1	pci/g	-	1.1	20.00%
113492	Thorium-228	11006	1.03	pci/g	-	1.03	15.00%
111794	Thorium-228	IFP-SS-05	0.79	pci/g	-	0.79	10.00%
116252	Thorium-228	1997	0.74	pci/g	-	0.74	5.00%
116243	Thorium-228	1997	0.63	pci/g	J	0.63	0.00%

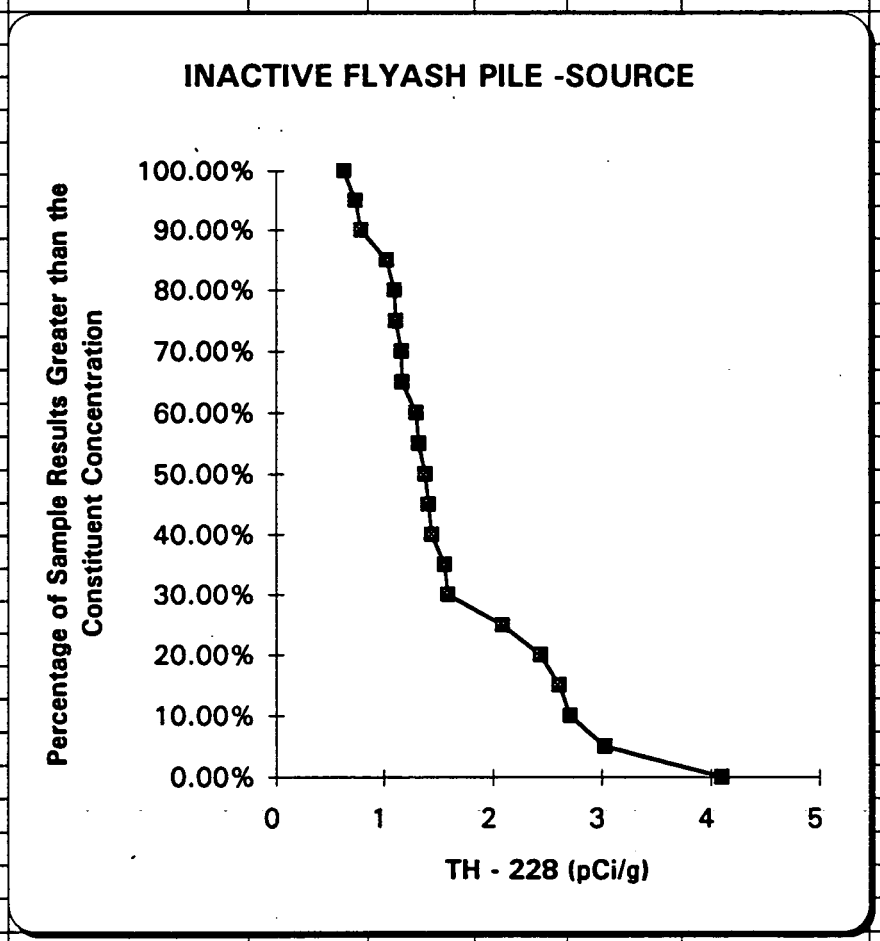

TABLE A.4-17
INACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
116438	Thorium-230	11051	121	pci/g	-	121	100.00%
116441	Thorium-230	11051	74.9	pci/g	-	74.9	95.00%
067046	Thorium-230	1710	54.6	pci/g	-	54.6	90.00%
067043	Thorium-230	1710	12.8	pci/g	J	12.8	85.00%
116427	Thorium-230	11052	8.02	pci/g	-	8.02	80.00%
116301	Thorium-230	1994	5.19	pci/g	-	5.19	75.00%
116080	Thorium-230	1995	5.17	pci/g	-	5.17	70.00%
112057	Thorium-230	1998	4.17	pci/g	-	4.17	65.00%
112073	Thorium-230	1996	4.07	pci/g	-	4.07	60.00%
067111	Thorium-230	1708	2.93	pci/g	J	2.93	55.00%
112054	Thorium-230	1998	2.8	pci/g	-	2.8	50.00%
111790	Thorium-230	IFP-SS-01	2.77	pci/g	-	2.77	45.00%
111794	Thorium-230	IFP-SS-05	2.2	pci/g	-	2.2	40.00%
067019	Thorium-230	1711	2.14	pci/g	J	2.14	35.00%
116177	Thorium-230	1997	1.89	pci/g	J	1.89	30.00%
067121	Thorium-230	1791	1.73	pci/g	J	1.73	25.00%
067618	Thorium-230	1849	1.69	pci/g	-	1.69	20.00%
116252	Thorium-230	1997	1.14	pci/g	-	1.14	15.00%
113492	Thorium-230	11006	1.11	pci/g	-	1.11	10.00%
116243	Thorium-230	1997	1	pci/g	J	1	5.00%
007233	Thorium-230	1016	0.9	pci/g	-	0.9	0.00%

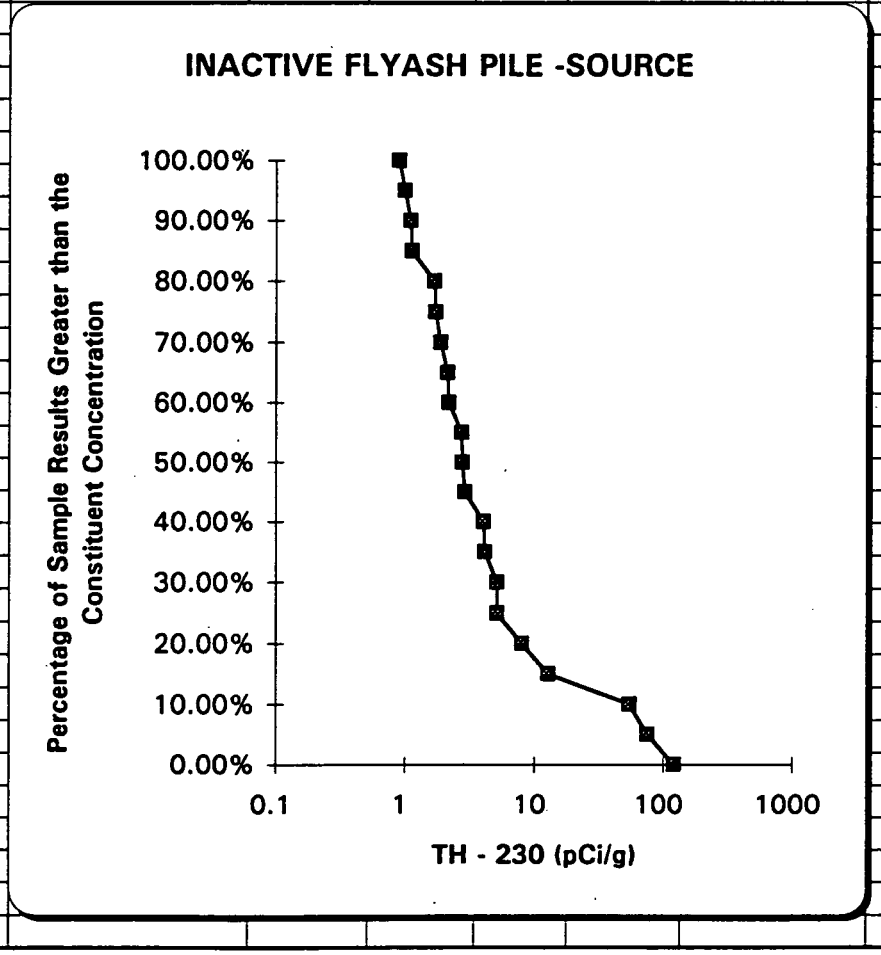

TABLE A.4-17
INACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067043	Thorium-232	1710	4	pci/g	-	4	100.00%
067046	Thorium-232	1710	3.28	pci/g	-	3.28	95.00%
116438	Thorium-232	11051	2.54	pci/g	-	2.54	90.00%
116080	Thorium-232	1995	2.51	pci/g	-	2.51	85.00%
111790	Thorium-232	IFP-SS-01	2.33	pci/g	-	2.33	80.00%
112073	Thorium-232	1996	1.9	pci/g	-	1.9	75.00%
116441	Thorium-232	11051	1.77	pci/g	-	1.77	70.00%
112057	Thorium-232	1998	1.35	pci/g	-	1.35	60.00%
116427	Thorium-232	11052	1.35	pci/g	-	1.35	60.00%
067111	Thorium-232	1708	1.17	pci/g	J	1.17	55.00%
116301	Thorium-232	1994	1.14	pci/g	-	1.14	50.00%
113492	Thorium-232	11006	1.12	pci/g	-	1.12	45.00%
067019	Thorium-232	1711	1.1	pci/g	J	1.1	40.00%
116177	Thorium-232	1997	1	pci/g	J	1	35.00%
112054	Thorium-232	1998	0.979	pci/g	-	0.979	30.00%
067121	Thorium-232	1791	0.95	pci/g	J	0.95	25.00%
067618	Thorium-232	1849	0.91	pci/g	-	0.91	20.00%
116252	Thorium-232	1997	0.87	pci/g	-	0.87	15.00%
116243	Thorium-232	1997	0.85	pci/g	J	0.85	10.00%
111794	Thorium-232	IFP-SS-05	0.841	pci/g	-	0.841	5.00%
007233	Thorium-232	1016	0.6	pci/g	-	0.6	0.00%

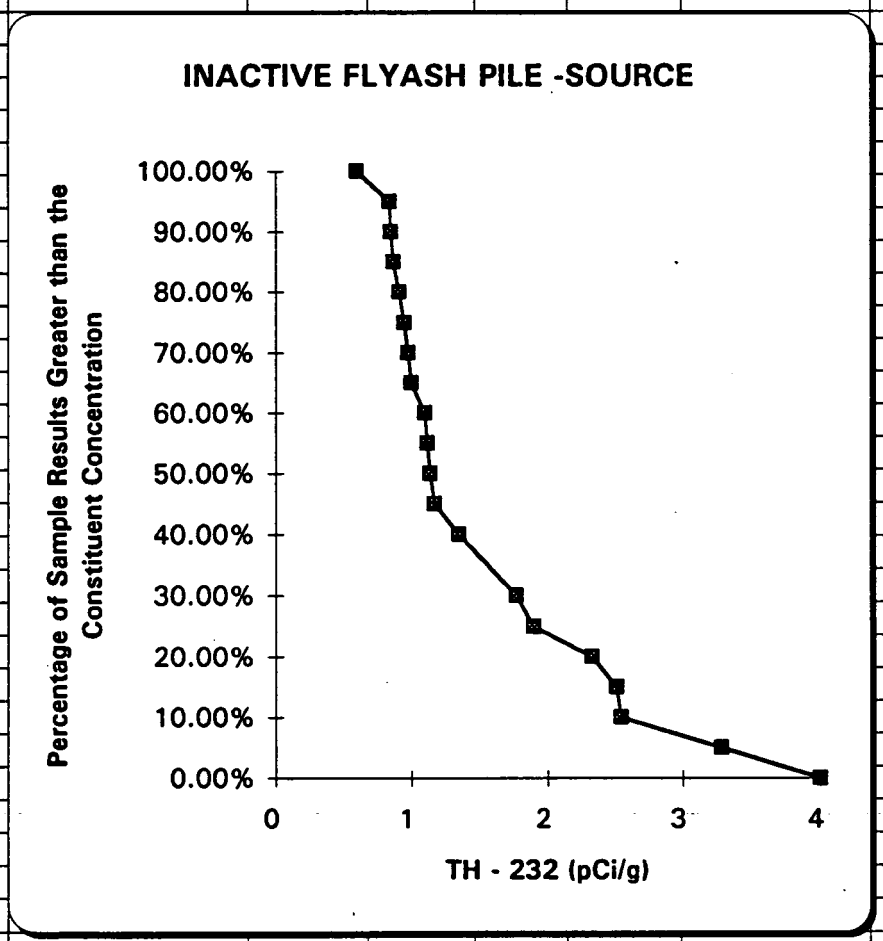

TABLE A.4-17
INACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
116438	Uranium, Total	11051	3580	mg/kg	-	3580	100.00%
116441	Uranium, Total	11051	2280	mg/kg	-	2280	95.83%
113492	Uranium, Total	11006	1714	mg/kg	-	1714	91.66%
067121	Uranium, Total	1791	873	mg/kg	J	873	87.50%
067046	Uranium, Total	1710	660	mg/kg	-	660	83.33%
116427	Uranium, Total	11052	294	mg/kg	-	294	79.16%
116080	Uranium, Total	1995	187	mg/kg	-	187	75.00%
067043	Uranium, Total	1710	128	mg/kg	J	128	70.83%
116177	Uranium, Total	1997	69.8	mg/kg	J	69.8	66.66%
067111	Uranium, Total	1708	68.2	mg/kg	J	68.2	62.50%
116301	Uranium, Total	1994	50.7	mg/kg	-	50.7	58.33%
112073	Uranium, Total	1996	48.3	mg/kg	-	48.3	54.16%
111795	Uranium, Total	IFP-SS-06	32.1	mg/kg	-	32.1	50.00%
112057	Uranium, Total	1998	31.7	mg/kg	-	31.7	45.83%
111796	Uranium, Total	IFP-SS-07	31.1	mg/kg	-	31.1	41.66%
111794	Uranium, Total	IFP-SS-05	20.4	mg/kg	-	20.4	37.50%
111793	Uranium, Total	IFP-SS-04	19.7	mg/kg	-	19.7	33.33%
067019	Uranium, Total	1711	18	mg/kg	J	18	29.16%
112054	Uranium, Total	1998	14.9	mg/kg	-	14.9	25.00%
111790	Uranium, Total	IFP-SS-01	12.3	mg/kg	-	12.3	20.83%
067618	Uranium, Total	1849	6.93	mg/kg	J	6.93	16.66%
116243	Uranium, Total	1997	5.62	mg/kg	J	5.62	12.50%
111791	Uranium, Total	IFP-SS-02	5.01	mg/kg	-	5.01	8.33%
116252	Uranium, Total	1997	2.62	mg/kg	J	2.62	4.16%
111792	Uranium, Total	IFP-SS-03	0.824	mg/kg	J	0.824	0.00%

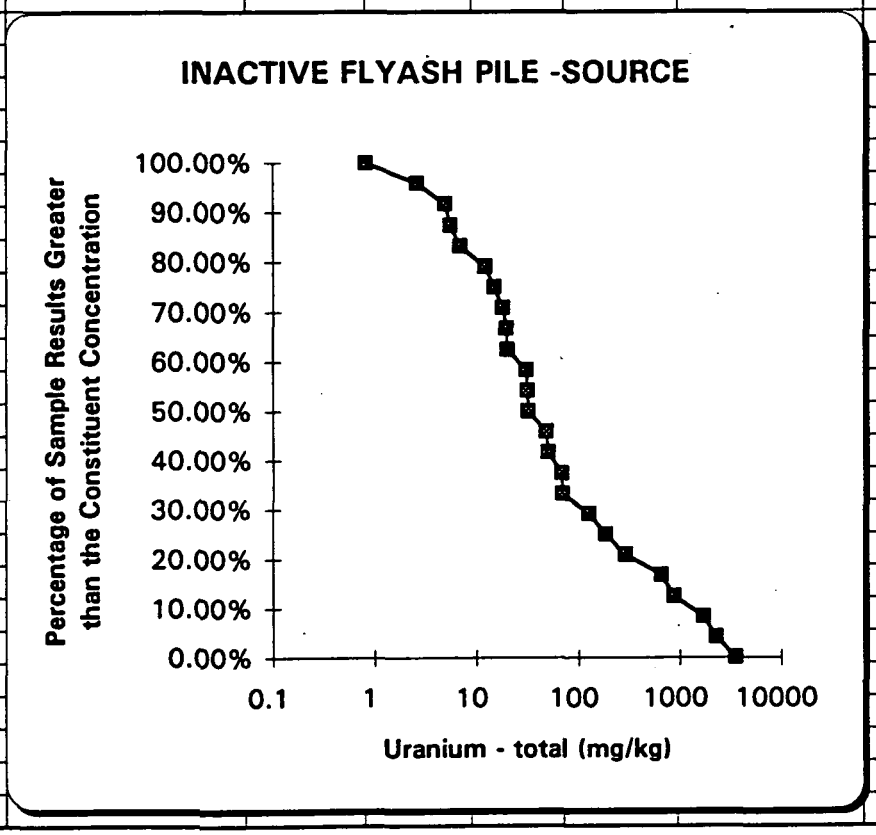

TABLE A.4-17
INACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
116438	Uranium-234	11051	1380	pci/g	-	1380	100.00%
113492	Uranium-234	11006	771	pci/g	-	771	95.83%
116441	Uranium-234	11051	726	pci/g	-	726	91.66%
067046	Uranium-234	1710	187	pci/g	-	187	87.50%
116427	Uranium-234	11052	106.5	pci/g	J	106.5	83.33%
116080	Uranium-234	1995	61.9	pci/g	-	61.9	79.16%
067043	Uranium-234	1710	51.4	pci/g	J	51.4	75.00%
116177	Uranium-234	1997	23.4	pci/g	J	23.4	70.83%
067111	Uranium-234	1708	20.64	pci/g	J	20.64	66.66%
116301	Uranium-234	1994	17.9	pci/g	-	17.9	62.50%
112073	Uranium-234	1996	14.55	pci/g	-	14.55	58.33%
007233	Uranium-234	1016	10.7	pci/g	J	10.7	54.16%
111795	Uranium-234	IFP-SS-06	10.6	pci/g	-	10.6	50.00%
111796	Uranium-234	IFP-SS-07	10.1	pci/g	-	10.1	45.83%
112057	Uranium-234	1998	8.6	pci/g	-	8.6	41.66%
111794	Uranium-234	IFP-SS-05	7.69	pci/g	-	7.69	37.50%
111793	Uranium-234	IFP-SS-04	6.18	pci/g	-	6.18	33.33%
067019	Uranium-234	1711	4.95	pci/g	-	4.95	29.16%
112054	Uranium-234	1998	4.14	pci/g	-	4.14	25.00%
111790	Uranium-234	IFP-SS-01	3.11	pci/g	-	3.11	20.83%
067618	Uranium-234	1849	1.73	pci/g	-	1.73	16.66%
111791	Uranium-234	IFP-SS-02	1.32	pci/g	-	1.32	12.50%
116252	Uranium-234	1997	0.8	pci/g	-	0.8	8.33%
116243	Uranium-234	1997	0.72	pci/g	J	0.72	4.16%
111792	Uranium-234	IFP-SS-03	0.433	pci/g	J	0.433	0.00%

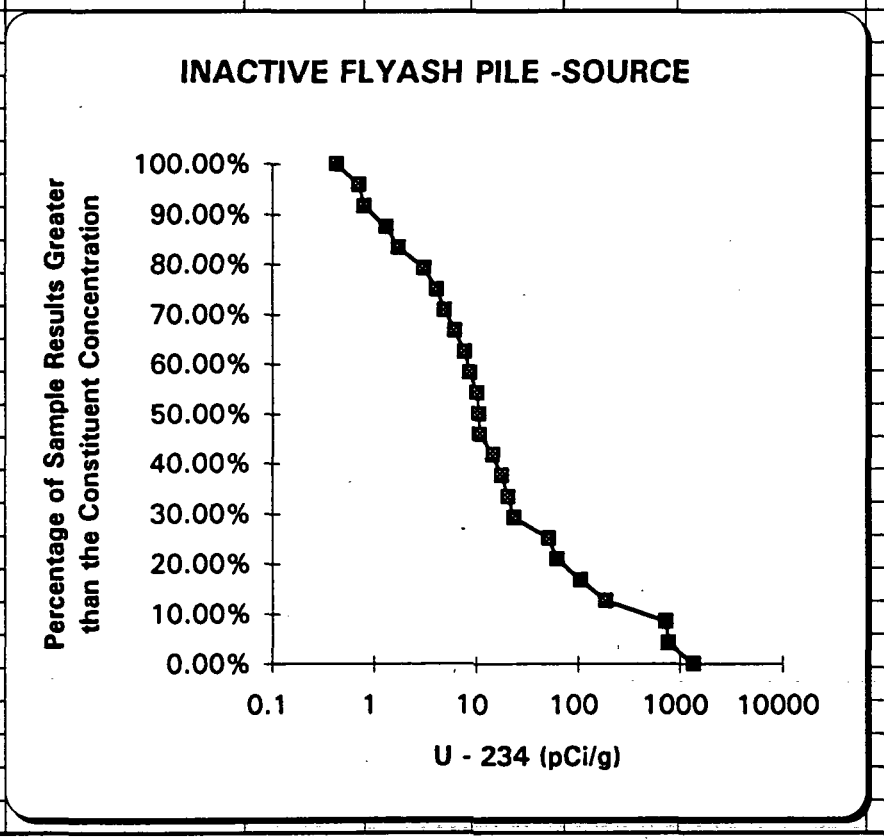

TABLE A.4-17
INACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
116438	Uranium-235/236	11051	68.8	pci/g	-	68.8	100.00%
113492	Uranium-235/236	11006	49.1	pci/g	-	49.1	95.83%
116441	Uranium-235/236	11051	35.5	pci/g	-	35.5	91.66%
067046	Uranium-235/236	1710	18.5	pci/g	-	18.5	87.50%
116427	Uranium-235/236	11052	5.76	pci/g	J	5.76	83.33%
067043	Uranium-235/236	1710	3.29	pci/g	J	3.29	79.16%
116080	Uranium-235/236	1995	2.91	pci/g	-	2.91	75.00%
116177	Uranium-235/236	1997	1.28	pci/g	J	1.28	70.83%
116301	Uranium-235/236	1994	1.05	pci/g	-	1.05	66.66%
112073	Uranium-235/236	1996	0.74	pci/g	-	0.74	62.50%
067111	Uranium-235/236	1708	0.687	pci/g	J	0.687	58.33%
111795	Uranium-235/236	IFP-SS-06	0.602	pci/g	-	0.602	54.16%
111796	Uranium-235/236	IFP-SS-07	0.433	pci/g	J	0.433	50.00%
112057	Uranium-235/236	1998	0.4	pci/g	J	0.4	45.83%
111794	Uranium-235/236	IFP-SS-05	0.335	pci/g	-	0.335	41.66%
067618	Uranium-235/236	1849	0.6	pci/g	U	0.3	29.16%
067019	Uranium-235/236	1711	0.6	pci/g	U	0.3	29.16%
007233	Uranium-235/236	1016	0.6	pci/g	UJ	0.3	29.16%
111793	Uranium-235/236	IFP-SS-04	0.276	pci/g	J	0.276	25.00%
112054	Uranium-235/236	1998	0.21	pci/g	J	0.21	20.83%
111790	Uranium-235/236	IFP-SS-01	0.122	pci/g	J	0.122	16.66%
111791	Uranium-235/236	IFP-SS-02	0.0721	pci/g	J	0.0721	12.50%
116243	Uranium-235/236	1997	0.04	pci/g	J	0.04	4.16%
116252	Uranium-235/236	1997	0.04	pci/g	J	0.04	4.16%
111792	Uranium-235/236	IFP-SS-03	0.038	pci/g	J	0.038	0.00%

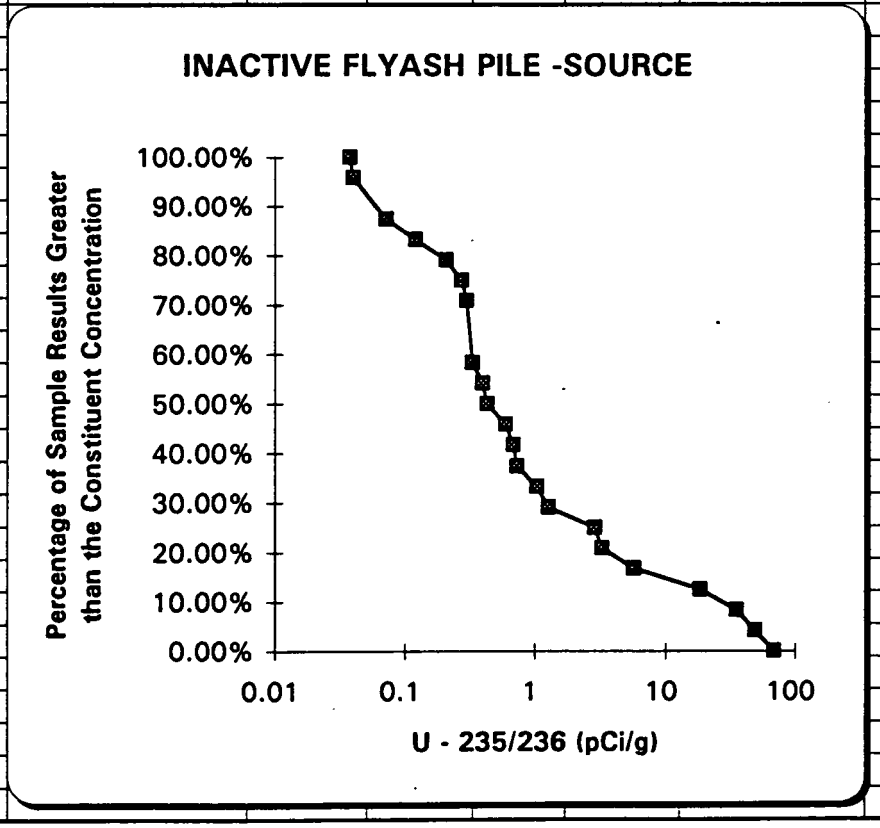

TABLE A.4-17
INACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
116438	Uranium-238	11051	1570	pci/g	-	1570	100.00%
113492	Uranium-238	11006	803	pci/g	-	803	95.65%
116441	Uranium-238	11051	763	pci/g	-	763	91.30%
067046	Uranium-238	1710	191	pci/g	-	191	86.95%
116427	Uranium-238	11052	115.8	pci/g	J	115.8	82.60%
116080	Uranium-238	1995	62.7	pci/g	-	62.7	78.26%
116177	Uranium-238	1997	23.7	pci/g	J	23.7	73.91%
067111	Uranium-238	1708	21.94	pci/g	J	21.94	69.56%
116301	Uranium-238	1994	20.7	pci/g	-	20.7	65.21%
112073	Uranium-238	1996	14.56	pci/g	-	14.56	60.86%
007233	Uranium-238	1016	11.4	pci/g	J	11.4	56.52%
111795	Uranium-238	IFP-SS-06	11.2	pci/g	-	11.2	52.17%
111796	Uranium-238	IFP-SS-07	10.4	pci/g	-	10.4	47.82%
112057	Uranium-238	1998	9.22	pci/g	-	9.22	43.47%
111794	Uranium-238	IFP-SS-05	7.56	pci/g	-	7.56	39.13%
111793	Uranium-238	IFP-SS-04	6.12	pci/g	-	6.12	34.78%
112054	Uranium-238	1998	4.78	pci/g	-	4.78	30.43%
067019	Uranium-238	1711	4.54	pci/g	-	4.54	26.08%
111790	Uranium-238	IFP-SS-01	2.98	pci/g	-	2.98	21.73%
067618	Uranium-238	1849	1.76	pci/g	-	1.76	17.39%
111791	Uranium-238	IFP-SS-02	1.44	pci/g	-	1.44	13.04%
116243	Uranium-238	1997	0.98	pci/g	J	0.98	8.69%
116252	Uranium-238	1997	0.91	pci/g	-	0.91	4.34%
111792	Uranium-238	IFP-SS-03	0.422	pci/g	J	0.422	0.00%

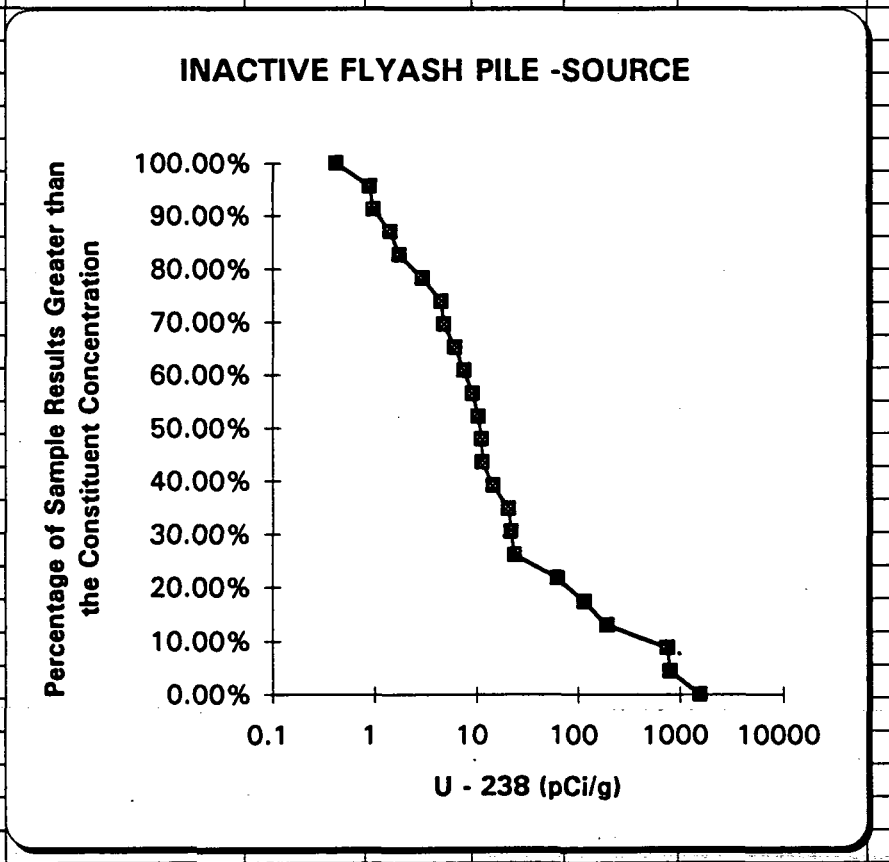

TABLE A.4-18
INACTIVE FLYASH PILE - COVER

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
111793	Arsenic	IFP-SS-04	5.1	mg/kg	-	5.1
111792	Arsenic	IFP-SS-03	1.9	mg/kg	J	1.9
111793	Dibenzo(a,h)anthracene	IFP-SS-04	430	ug/kg	U	215
111792	Dibenzo(a,h)anthracene	IFP-SS-03	360	ug/kg	U	180
111793	Neptunium-237	IFP-SS-04	0.137	pci/g	N	0.137
111792	Neptunium-237	IFP-SS-03	0.0298	pci/g	N	0.0298
111793	Radium-226	IFP-SS-04	1.22	pci/g	-	1.22
111792	Radium-226	IFP-SS-03	0.523	pci/g	-	0.523
111793	Radium-228	IFP-SS-04	1.2	pci/g	-	1.2
111792	Radium-228	IFP-SS-03	0.415	pci/g	J	0.415
111792	Technetium-99	IFP-SS-03	0.342	pci/g	UJ	0.171
111793	Technetium-99	IFP-SS-04	0.323	pci/g	UJ	0.1615
111793	Uranium, Total	IFP-SS-04	19.7	mg/kg	-	19.7
111792	Uranium, Total	IFP-SS-03	0.824	mg/kg	J	0.824
111793	Uranium-234	IFP-SS-04	6.18	pci/g	-	6.18
111792	Uranium-234	IFP-SS-03	0.433	pci/g	J	0.433
111793	Uranium-235/236	IFP-SS-04	0.276	pci/g	J	0.276
111792	Uranium-235/236	IFP-SS-03	0.038	pci/g	J	0.038
111793	Uranium-238	IFP-SS-04	6.12	pci/g	-	6.12
111792	Uranium-238	IFP-SS-03	0.422	pci/g	J	0.422

TABLE A.4-19
INACTIVE FLYASH PILE - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
116441	Arsenic	11051	49.7	mg/kg	-	49.7	100.00%
116427	Arsenic	11052	35.5	mg/kg	-	35.5	93.33%
111790	Arsenic	IFP-SS-01	33.2	mg/kg	-	33.2	86.66%
112054	Arsenic	1998	10.9	mg/kg	J	10.9	80.00%
116080	Arsenic	1995	9.7	mg/kg	J	9.7	73.33%
116301	Arsenic	1994	6.8	mg/kg	-	6.8	66.66%
113492	Arsenic	11006	6.7	mg/kg	-	6.7	60.00%
111795	Arsenic	IFP-SS-06	6.2	mg/kg	-	6.2	53.33%
116252	Arsenic	1997	5.6	mg/kg	-	5.6	46.66%
111794	Arsenic	IFP-SS-05	5.2	mg/kg	-	5.2	40.00%
111791	Arsenic	IFP-SS-02	5.1	mg/kg	-	5.1	26.66%
111793	Arsenic	IFP-SS-04	5.1	mg/kg	-	5.1	26.66%
116177	Arsenic	1997	4.7	mg/kg	-	4.7	20.00%
111796	Arsenic	IFP-SS-07	4.4	mg/kg	-	4.4	13.33%
116243	Arsenic	1997	4.2	mg/kg	-	4.2	6.66%
111792	Arsenic	IFP-SS-03	1.9	mg/kg	J	1.9	0.00%

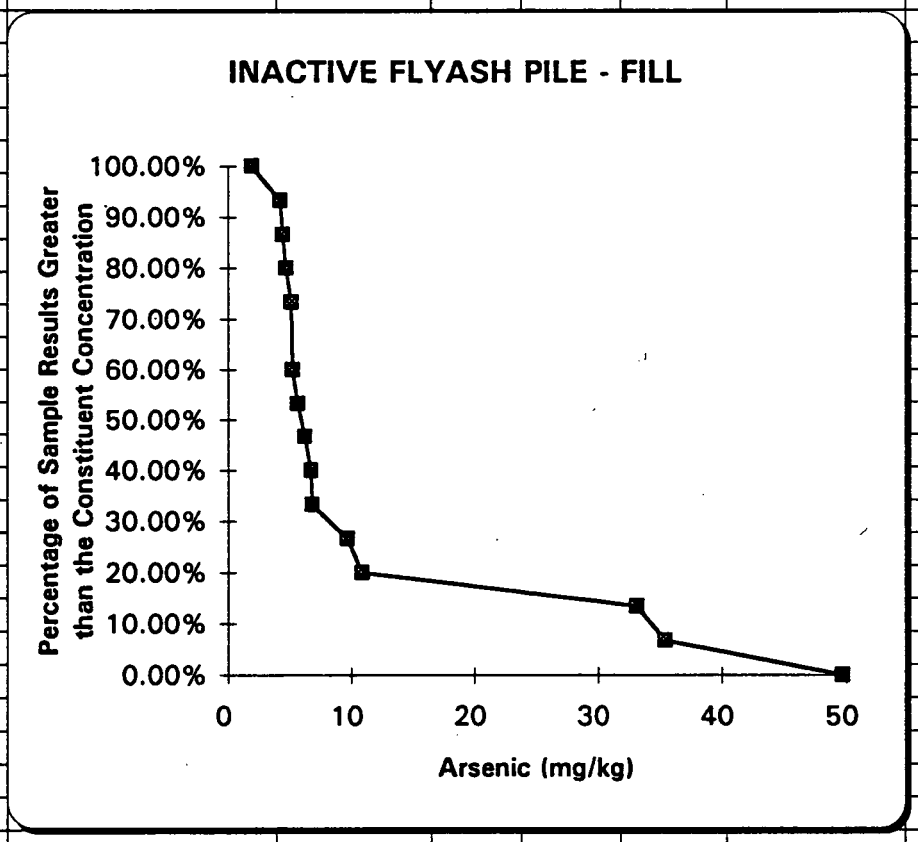

TABLE A.4-19
INACTIVE FLYASH PILE - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
111796	Dibenzo(a,h)anthracene	IFP-SS-07	2200	ug/kg	-	2200	100.00%
111790	Dibenzo(a,h)anthracene	IFP-SS-01	560	ug/kg	U	280	94.11%
116331	Dibenzo(a,h)anthracene	11055	460	ug/kg	U	230	88.23%
112087	Dibenzo(a,h)anthracene	1996	450	ug/kg	U	225	76.47%
116441	Dibenzo(a,h)anthracene	11051	450	ug/kg	UJ	225	76.47%
116427	Dibenzo(a,h)anthracene	11052	440	ug/kg	U	220	70.58%
111793	Dibenzo(a,h)anthracene	IFP-SS-04	430	ug/kg	U	215	58.82%
111794	Dibenzo(a,h)anthracene	IFP-SS-05	430	ug/kg	U	215	58.82%
111795	Dibenzo(a,h)anthracene	IFP-SS-06	420	ug/kg	U	210	52.94%
116301	Dibenzo(a,h)anthracene	1994	410	ug/kg	U	205	47.05%
116177	Dibenzo(a,h)anthracene	1997	400	ug/kg	U	200	35.29%
116243	Dibenzo(a,h)anthracene	1997	400	ug/kg	U	200	35.29%
111791	Dibenzo(a,h)anthracene	IFP-SS-02	390	ug/kg	U	195	23.52%
112054	Dibenzo(a,h)anthracene	1998	390	ug/kg	UJ	195	23.52%
116252	Dibenzo(a,h)anthracene	1997	380	ug/kg	U	190	17.64%
116080	Dibenzo(a,h)anthracene	1995	370	ug/kg	U	185	11.76%
111792	Dibenzo(a,h)anthracene	IFP-SS-03	360	ug/kg	U	180	5.88%
113492	Dibenzo(a,h)anthracene	11006	2	ug/kg	J	1	0.00%

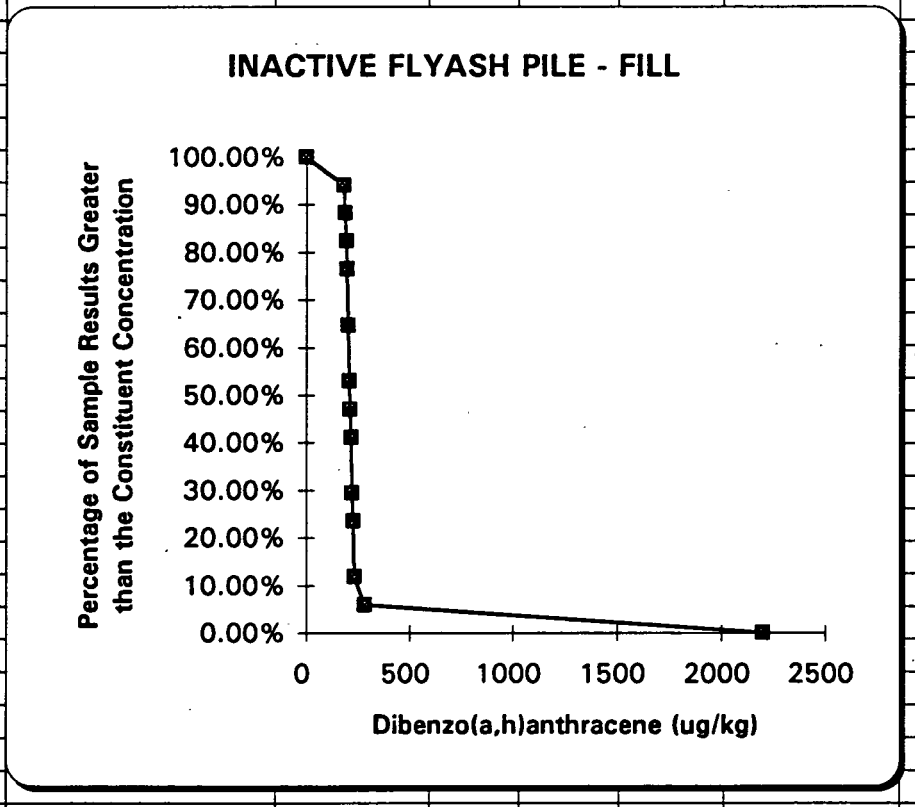

TABLE A.4-19
INACTIVE FLYASH PILE - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
116438	Neptunium-237	11051	37.3	pci/g	N	37.3	100.00%
116441	Neptunium-237	11051	1.91	pci/g	N	1.91	93.33%
067111	Neptunium-237	1708	0.6	pci/g	J	0.6	86.66%
116080	Neptunium-237	1995	0.502	pci/g	N	0.502	80.00%
112073	Neptunium-237	1996	0.49	pci/g	N	0.49	73.33%
116427	Neptunium-237	11052	0.31	pci/g	N	0.31	66.66%
116177	Neptunium-237	1997	0.3	pci/g	N	0.3	60.00%
116252	Neptunium-237	1997	0.26	pci/g	N	0.26	53.33%
116301	Neptunium-237	1994	0.228	pci/g	N	0.228	46.66%
116243	Neptunium-237	1997	0.18	pci/g	N	0.18	40.00%
112054	Neptunium-237	1998	0.165	pci/g	N	0.165	33.33%
111793	Neptunium-237	IFP-SS-04	0.137	pci/g	N	0.137	26.66%
113492	Neptunium-237	11006	0.118	pci/g	N	0.118	20.00%
111794	Neptunium-237	IFP-SS-05	0.0411	pci/g	N	0.0411	13.33%
111796	Neptunium-237	IFP-SS-07	0.0351	pci/g	N	0.0351	6.66%
111792	Neptunium-237	IFP-SS-03	0.0298	pci/g	N	0.0298	0.00%

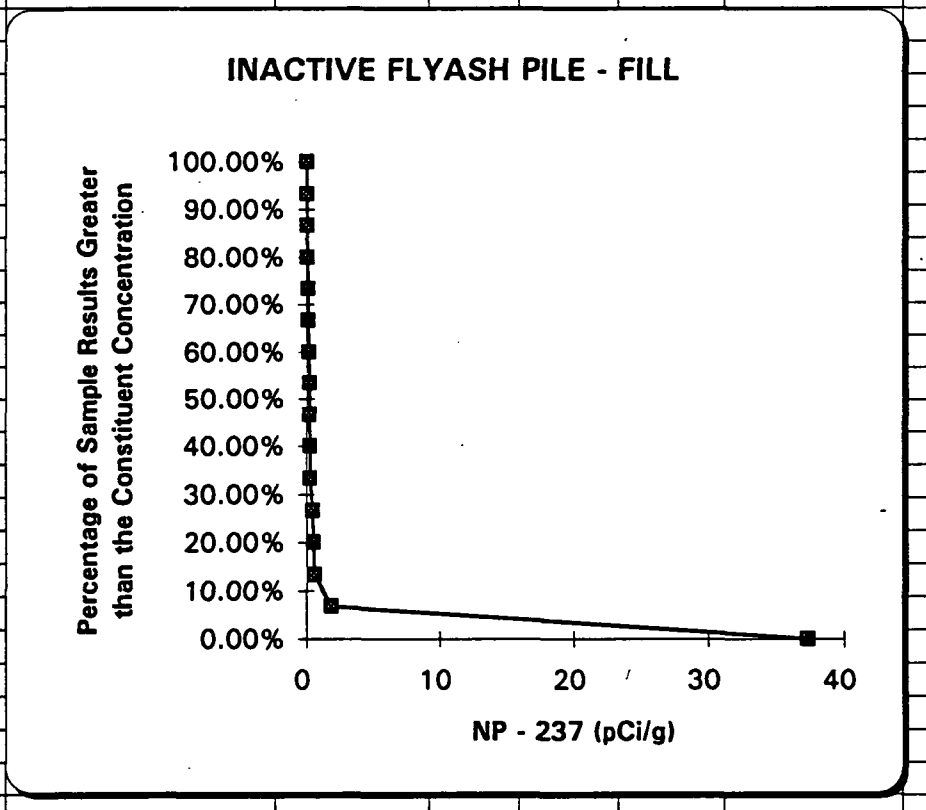

TABLE A.4-19
INACTIVE FLYASH PILE - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
116441	Radium-226	11051	42.3	pci/g	-	42.3	100.00%
116438	Radium-226	11051	37.8	pci/g	-	37.8	94.73%
113492	Radium-226	11006	9.74	pci/g	-	9.74	89.47%
067043	Radium-226	1710	6.36	pci/g	J	6.36	84.21%
116427	Radium-226	11052	4.06	pci/g	-	4.06	78.94%
116301	Radium-226	1994	3.15	pci/g	-	3.15	73.68%
112073	Radium-226	1996	2.86	pci/g	-	2.86	68.42%
111790	Radium-226	IFP-SS-01	2.7	pci/g	-	2.7	63.15%
067111	Radium-226	1708	1.72	pci/g	J	1.72	57.89%
116080	Radium-226	1995	1.71	pci/g	-	1.71	52.63%
112054	Radium-226	1998	1.46	pci/g	-	1.46	47.36%
116177	Radium-226	1997	1.3	pci/g	-	1.3	42.10%
116243	Radium-226	1997	1.26	pci/g	-	1.26	36.84%
111793	Radium-226	IFP-SS-04	1.22	pci/g	-	1.22	26.31%
116252	Radium-226	1997	1.22	pci/g	-	1.22	26.31%
111794	Radium-226	IFP-SS-05	1.05	pci/g	-	1.05	21.05%
111796	Radium-226	IFP-SS-07	1.04	pci/g	-	1.04	15.78%
111795	Radium-226	IFP-SS-06	1.02	pci/g	-	1.02	10.52%
111791	Radium-226	IFP-SS-02	0.899	pci/g	-	0.899	5.26%
111792	Radium-226	IFP-SS-03	0.523	pci/g	-	0.523	0.00%

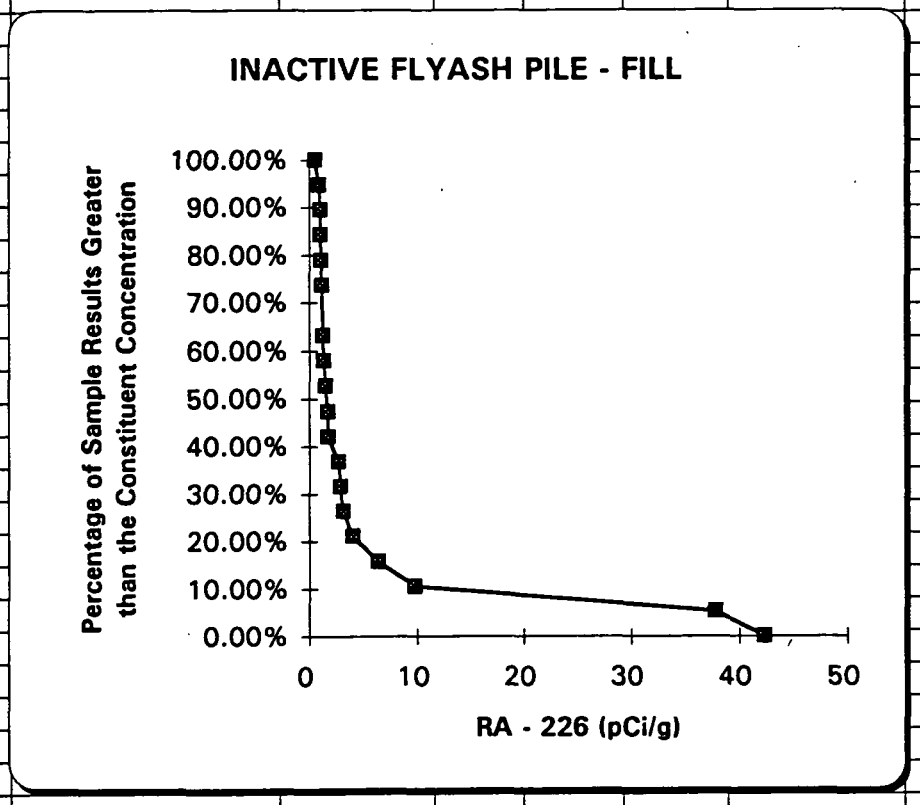

TABLE A.4-19
INACTIVE FLYASH PILE - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
116438	Radium-228	11051	3.04	pci/g	-	3.04	100.00%
067043	Radium-228	1710	2.88	pci/g	J	2.88	94.73%
116080	Radium-228	1995	2.72	pci/g	-	2.72	89.47%
111790	Radium-228	IFP-SS-01	2.62	pci/g	-	2.62	84.21%
112073	Radium-228	1996	2.34	pci/g	-	2.34	78.94%
116441	Radium-228	11051	2.29	pci/g	-	2.29	73.68%
116301	Radium-228	1994	1.8	pci/g	-	1.8	68.42%
116427	Radium-228	11052	1.6	pci/g	-	1.6	63.15%
111795	Radium-228	IFP-SS-06	1.48	pci/g	-	1.48	57.89%
116177	Radium-228	1997	1.29	pci/g	-	1.29	52.63%
113492	Radium-228	11006	1.23	pci/g	-	1.23	47.36%
111793	Radium-228	IFP-SS-04	1.2	pci/g	-	1.2	42.10%
112054	Radium-228	1998	1.18	pci/g	-	1.18	36.84%
067111	Radium-228	1708	1.09	pci/g	J	1.09	31.57%
116252	Radium-228	1997	0.99	pci/g	-	0.99	26.31%
111791	Radium-228	IFP-SS-02	0.966	pci/g	-	0.966	21.05%
116243	Radium-228	1997	0.91	pci/g	-	0.91	15.78%
111794	Radium-228	IFP-SS-05	0.827	pci/g	-	0.827	10.52%
111796	Radium-228	IFP-SS-07	0.758	pci/g	-	0.758	5.26%
111792	Radium-228	IFP-SS-03	0.415	pci/g	J	0.415	0.00%

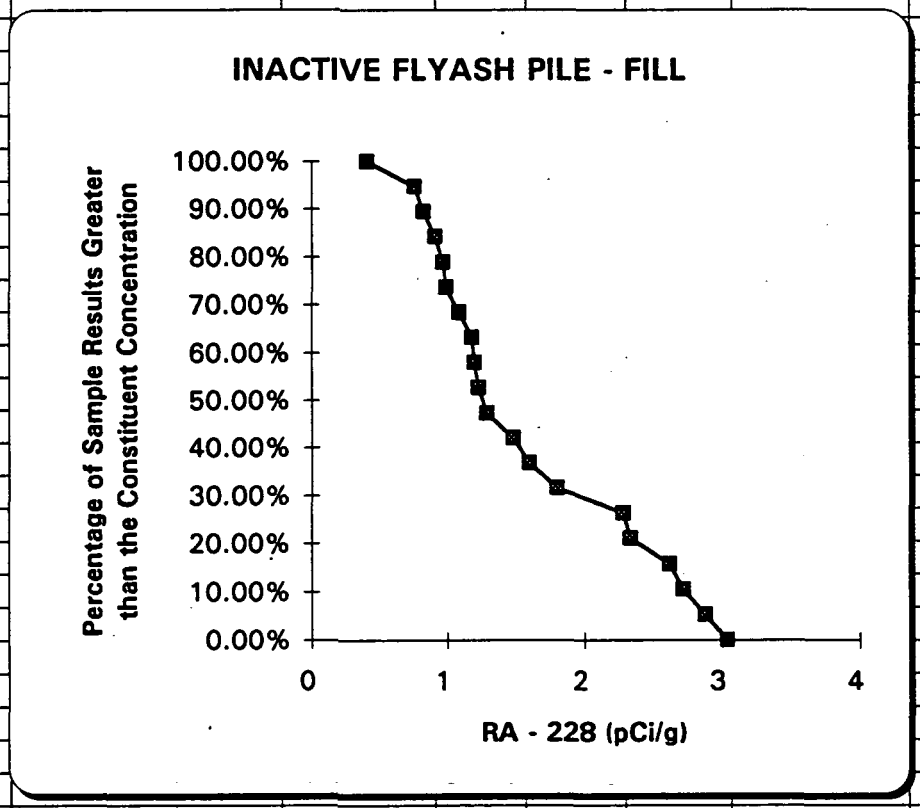

TABLE A.4-19
INACTIVE FLYASH PILE - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067043	Technetium-99	1710	0.9	pci/g	U	0.45	94.73%
067111	Technetium-99	1708	0.9	pci/g	U	0.45	94.73%
113492	Technetium-99	11006	0.472	pci/g	UJ	0.236	89.47%
116438	Technetium-99	11051	0.46	pci/g	UJ	0.23	84.21%
112073	Technetium-99	1996	0.39	pci/g	UJ	0.195	73.68%
116441	Technetium-99	11051	0.39	pci/g	UJ	0.195	73.68%
116427	Technetium-99	11052	0.373	pci/g	UJ	0.1865	68.42%
116252	Technetium-99	1997	0.37	pci/g	UJ	0.185	63.15%
112054	Technetium-99	1998	0.36	pci/g	UJ	0.18	47.36%
116080	Technetium-99	1995	0.36	pci/g	UJ	0.18	47.36%
116301	Technetium-99	1994	0.36	pci/g	UJ	0.18	47.36%
111795	Technetium-99	IFP-SS-06	0.343	pci/g	UJ	0.1715	42.10%
111792	Technetium-99	IFP-SS-03	0.342	pci/g	UJ	0.171	36.84%
111794	Technetium-99	IFP-SS-05	0.336	pci/g	UJ	0.168	31.57%
116177	Technetium-99	1997	0.33	pci/g	UJ	0.165	21.05%
116243	Technetium-99	1997	0.33	pci/g	UJ	0.165	21.05%
111793	Technetium-99	IFP-SS-04	0.323	pci/g	UJ	0.1615	15.78%
111791	Technetium-99	IFP-SS-02	0.319	pci/g	UJ	0.1595	10.52%
111790	Technetium-99	IFP-SS-01	0.316	pci/g	UJ	0.158	5.26%
111796	Technetium-99	IFP-SS-07	0.312	pci/g	UJ	0.156	0.00%

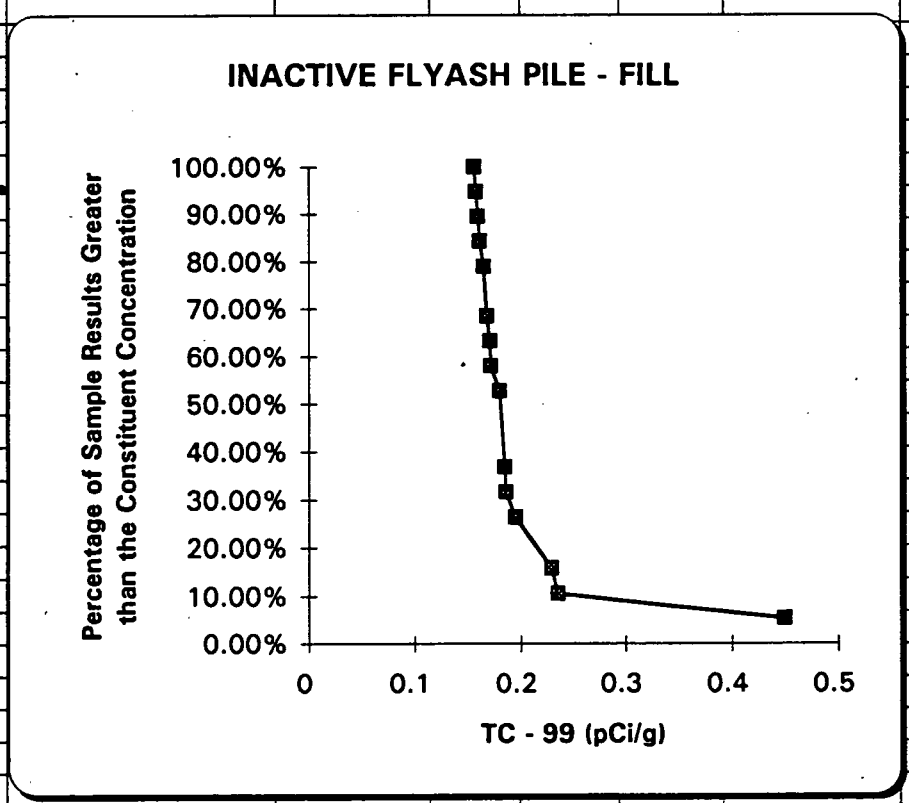

TABLE A.4-19
INACTIVE FLYASH PILE - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067043	Thorium-228	1710	4.1	pci/g	J	4.1	100.00%
111790	Thorium-228	IFP-SS-01	2.71	pci/g	-	2.71	92.85%
116080	Thorium-228	1995	2.61	pci/g	-	2.61	85.71%
116438	Thorium-228	11051	2.44	pci/g	-	2.44	78.57%
112073	Thorium-228	1996	2.09	pci/g	-	2.09	71.42%
067111	Thorium-228	1708	1.59	pci/g	J	1.59	64.28%
116427	Thorium-228	11052	1.41	pci/g	-	1.41	57.14%
116441	Thorium-228	11051	1.38	pci/g	-	1.38	50.00%
116301	Thorium-228	1994	1.32	pci/g	-	1.32	42.85%
112054	Thorium-228	1998	1.17	pci/g	-	1.17	35.71%
116177	Thorium-228	1997	1.16	pci/g	J	1.16	28.57%
113492	Thorium-228	11006	1.03	pci/g	-	1.03	21.42%
111794	Thorium-228	IFP-SS-05	0.79	pci/g	-	0.79	14.28%
116252	Thorium-228	1997	0.74	pci/g	-	0.74	7.14%
116243	Thorium-228	1997	0.63	pci/g	J	0.63	0.00%

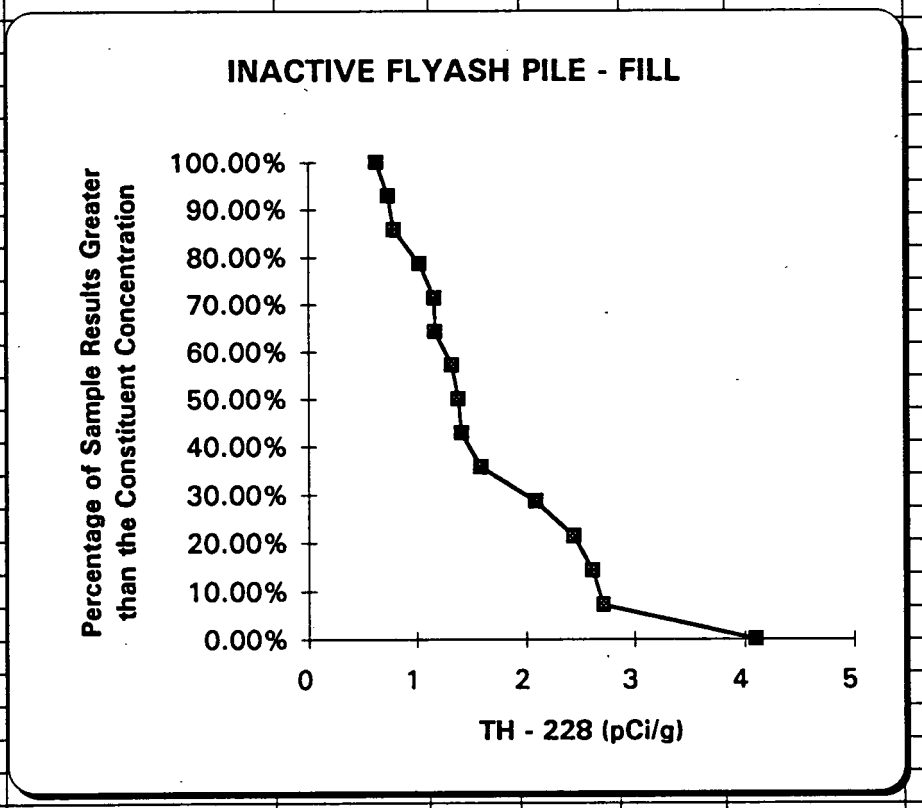

TABLE A.4-19
INACTIVE FLYASH PILE - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
116438	Thorium-230	11051	121	pci/g	-	121	100.00%
116441	Thorium-230	11051	74.9	pci/g	-	74.9	92.85%
067043	Thorium-230	1710	12.8	pci/g	J	12.8	85.71%
116427	Thorium-230	11052	8.02	pci/g	-	8.02	78.57%
116301	Thorium-230	1994	5.19	pci/g	-	5.19	71.42%
116080	Thorium-230	1995	5.17	pci/g	-	5.17	64.28%
112073	Thorium-230	1996	4.07	pci/g	-	4.07	57.14%
067111	Thorium-230	1708	2.93	pci/g	J	2.93	50.00%
112054	Thorium-230	1998	2.8	pci/g	-	2.8	42.85%
111790	Thorium-230	IFP-SS-01	2.77	pci/g	-	2.77	35.71%
111794	Thorium-230	IFP-SS-05	2.2	pci/g	-	2.2	28.57%
116177	Thorium-230	1997	1.89	pci/g	J	1.89	21.42%
116252	Thorium-230	1997	1.14	pci/g	-	1.14	14.28%
113492	Thorium-230	11006	1.11	pci/g	-	1.11	7.14%
116243	Thorium-230	1997	1	pci/g	J	1	0.00%

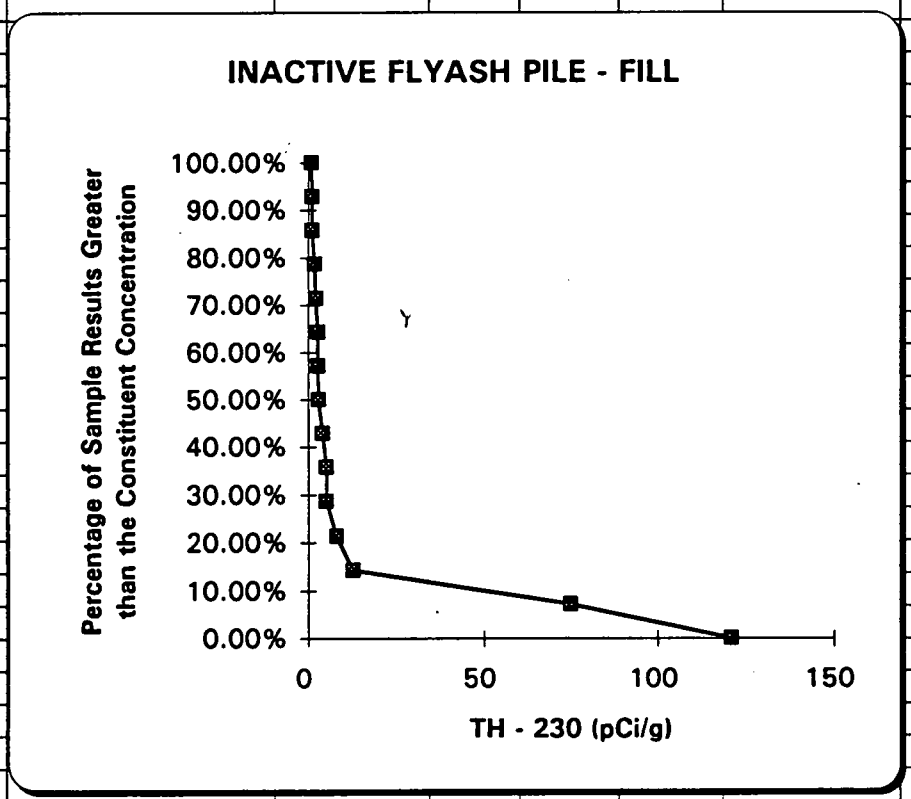

TABLE A.4-19
INACTIVE FLYASH PILE - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067043	Thorium-232	1710	4	pci/g	-	4	100.00%
116438	Thorium-232	11051	2.54	pci/g	-	2.54	92.85%
116080	Thorium-232	1995	2.51	pci/g	-	2.51	85.71%
111790	Thorium-232	IFP-SS-01	2.33	pci/g	-	2.33	78.57%
112073	Thorium-232	1996	1.9	pci/g	-	1.9	71.42%
116441	Thorium-232	11051	1.77	pci/g	-	1.77	64.28%
116427	Thorium-232	11052	1.35	pci/g	-	1.35	57.14%
067111	Thorium-232	1708	1.17	pci/g	J	1.17	50.00%
116301	Thorium-232	1994	1.14	pci/g	-	1.14	42.85%
113492	Thorium-232	11006	1.12	pci/g	-	1.12	35.71%
116177	Thorium-232	1997	1	pci/g	J	1	28.57%
112054	Thorium-232	1998	0.979	pci/g	-	0.979	21.42%
116252	Thorium-232	1997	0.87	pci/g	-	0.87	14.28%
116243	Thorium-232	1997	0.85	pci/g	J	0.85	7.14%
111794	Thorium-232	IFP-SS-05	0.841	pci/g	-	0.841	0.00%

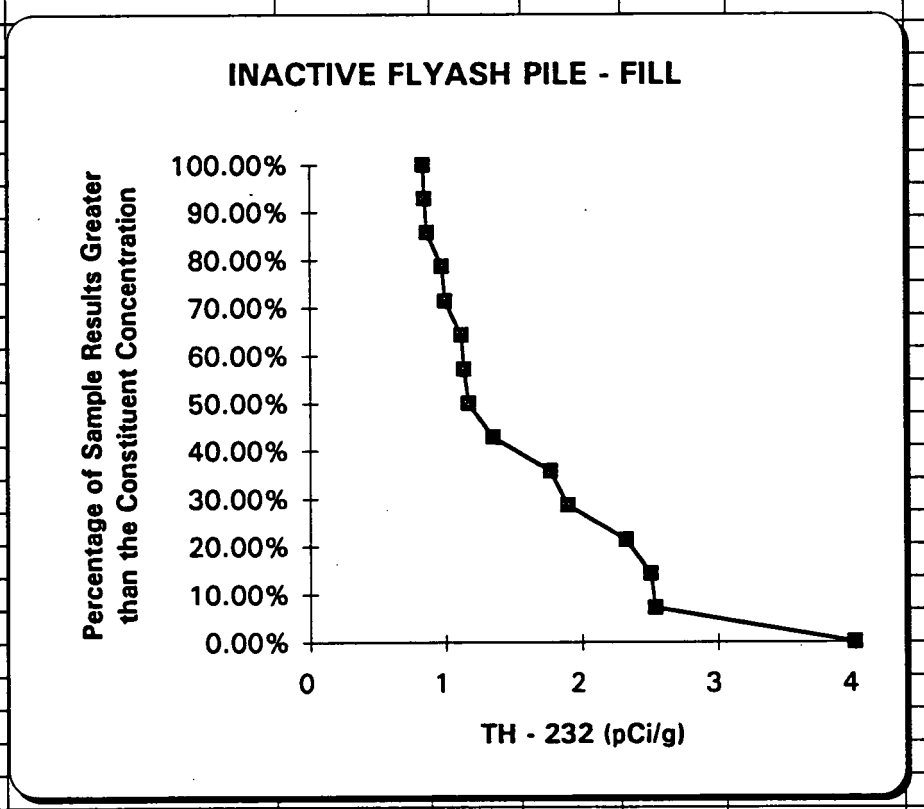

TABLE A.4-19
INACTIVE FLYASH PILE - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
116438	Uranium, Total	11051	3580	mg/kg	-	3580	100.00%
116441	Uranium, Total	11051	2280	mg/kg	-	2280	94.73%
113492	Uranium, Total	11006	1714	mg/kg	-	1714	89.47%
116427	Uranium, Total	11052	294	mg/kg	-	294	84.21%
116080	Uranium, Total	1995	187	mg/kg	-	187	78.94%
067043	Uranium, Total	1710	128	mg/kg	J	128	73.68%
116177	Uranium, Total	1997	69.8	mg/kg	J	69.8	68.42%
067111	Uranium, Total	1708	68.2	mg/kg	J	68.2	63.15%
116301	Uranium, Total	1994	50.7	mg/kg	-	50.7	57.89%
112073	Uranium, Total	1996	48.3	mg/kg	-	48.3	52.63%
111795	Uranium, Total	IFP-SS-06	32.1	mg/kg	-	32.1	47.36%
111796	Uranium, Total	IFP-SS-07	31.1	mg/kg	-	31.1	42.10%
111794	Uranium, Total	IFP-SS-05	20.4	mg/kg	-	20.4	36.84%
111793	Uranium, Total	IFP-SS-04	19.7	mg/kg	-	19.7	31.57%
112054	Uranium, Total	1998	14.9	mg/kg	-	14.9	26.31%
111790	Uranium, Total	IFP-SS-01	12.3	mg/kg	-	12.3	21.05%
116243	Uranium, Total	1997	5.62	mg/kg	J	5.62	15.78%
111791	Uranium, Total	IFP-SS-02	5.01	mg/kg	-	5.01	10.52%
116252	Uranium, Total	1997	2.62	mg/kg	J	2.62	5.26%
111792	Uranium, Total	IFP-SS-03	0.824	mg/kg	J	0.824	0.00%

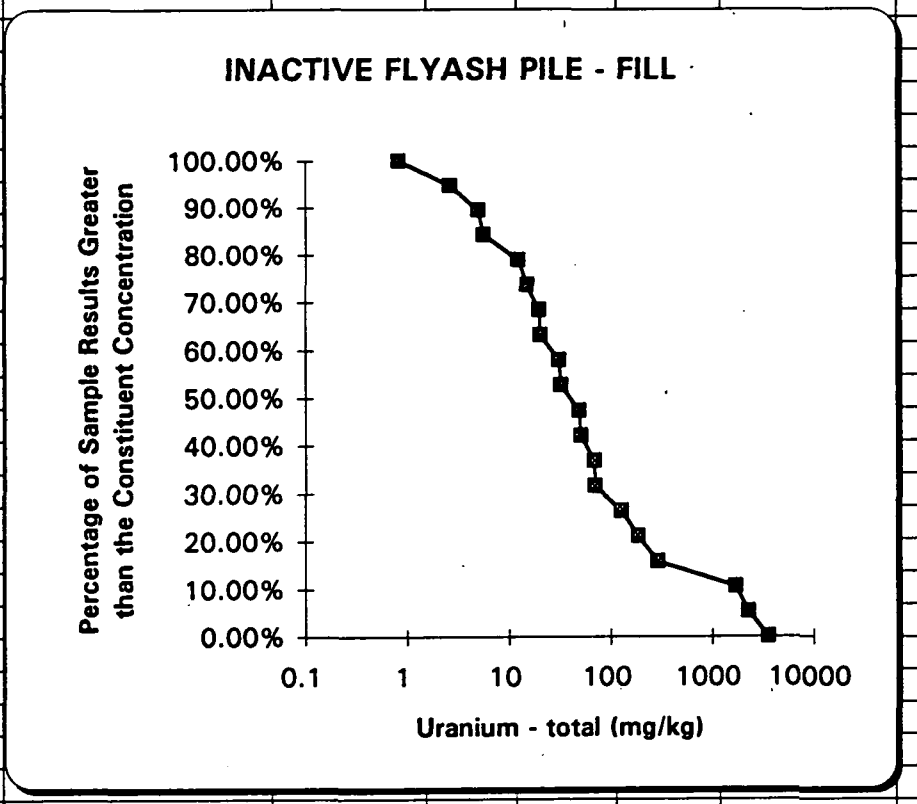

TABLE A.4-19
INACTIVE FLYASH PILE - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
116438	Uranium-234	11051	1380	pci/g	-	1380	100.00%
113492	Uranium-234	11006	771	pci/g	-	771	94.73%
116441	Uranium-234	11051	726	pci/g	-	726	89.47%
116427	Uranium-234	11052	106.5	pci/g	J	106.5	84.21%
116080	Uranium-234	1995	61.9	pci/g	-	61.9	78.94%
067043	Uranium-234	1710	51.4	pci/g	J	51.4	73.68%
116177	Uranium-234	1997	23.4	pci/g	J	23.4	68.42%
067111	Uranium-234	1708	20.64	pci/g	J	20.64	63.15%
116301	Uranium-234	1994	17.9	pci/g	-	17.9	57.89%
112073	Uranium-234	1996	14.55	pci/g	-	14.55	52.63%
111795	Uranium-234	IFP-SS-06	10.6	pci/g	-	10.6	47.36%
111796	Uranium-234	IFP-SS-07	10.1	pci/g	-	10.1	42.10%
111794	Uranium-234	IFP-SS-05	7.69	pci/g	-	7.69	36.84%
111793	Uranium-234	IFP-SS-04	6.18	pci/g	-	6.18	31.57%
112054	Uranium-234	1998	4.14	pci/g	-	4.14	26.31%
111790	Uranium-234	IFP-SS-01	3.11	pci/g	-	3.11	21.05%
111791	Uranium-234	IFP-SS-02	1.32	pci/g	-	1.32	15.78%
116252	Uranium-234	1997	0.8	pci/g	-	0.8	10.52%
116243	Uranium-234	1997	0.72	pci/g	J	0.72	5.26%
111792	Uranium-234	IFP-SS-03	0.433	pci/g	J	0.433	0.00%

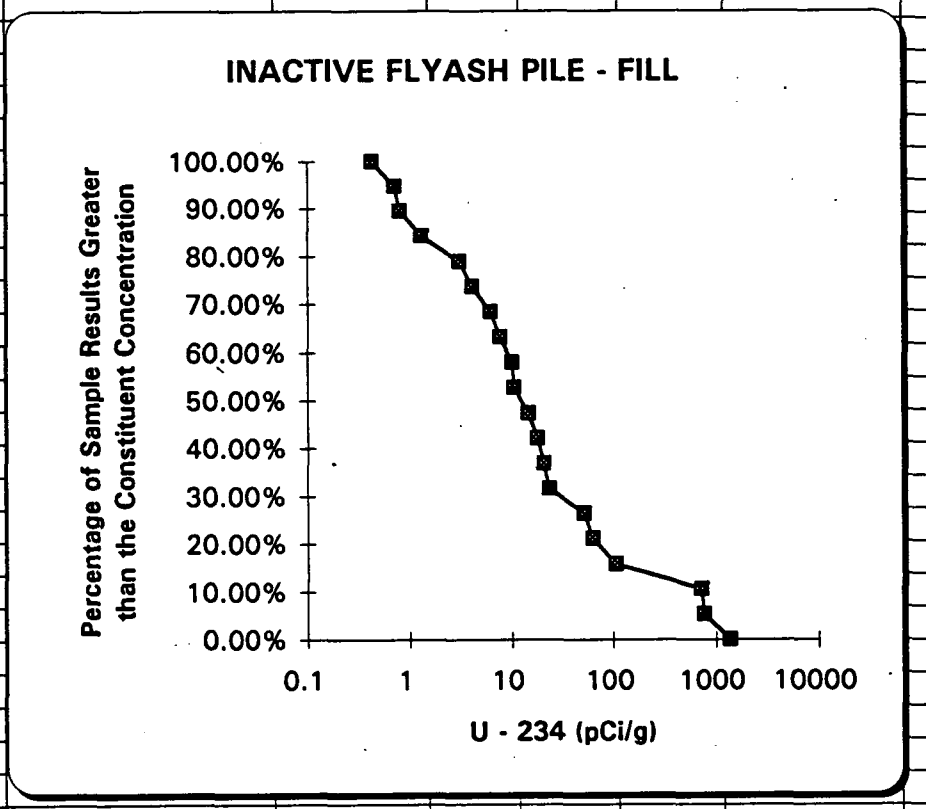

TABLE A.4-19
INACTIVE FLYASH PILE - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
116438	Uranium-235/236	11051	68.8	pci/g	-	68.8	100.00%
113492	Uranium-235/236	11006	49.1	pci/g	-	49.1	94.73%
116441	Uranium-235/236	11051	35.5	pci/g	-	35.5	89.47%
116427	Uranium-235/236	11052	5.76	pci/g	J	5.76	84.21%
067043	Uranium-235/236	1710	3.29	pci/g	J	3.29	78.94%
116080	Uranium-235/236	1995	2.91	pci/g	-	2.91	73.68%
116177	Uranium-235/236	1997	1.28	pci/g	J	1.28	68.42%
116301	Uranium-235/236	1994	1.05	pci/g	-	1.05	63.15%
112073	Uranium-235/236	1996	0.74	pci/g	-	0.74	57.89%
067111	Uranium-235/236	1708	0.687	pci/g	J	0.687	52.63%
111795	Uranium-235/236	IFP-SS-06	0.602	pci/g	-	0.602	47.36%
111796	Uranium-235/236	IFP-SS-07	0.433	pci/g	J	0.433	42.10%
111794	Uranium-235/236	IFP-SS-05	0.335	pci/g	-	0.335	36.84%
111793	Uranium-235/236	IFP-SS-04	0.276	pci/g	J	0.276	31.57%
112054	Uranium-235/236	1998	0.21	pci/g	J	0.21	26.31%
111790	Uranium-235/236	IFP-SS-01	0.122	pci/g	J	0.122	21.05%
111791	Uranium-235/236	IFP-SS-02	0.0721	pci/g	J	0.0721	15.78%
116243	Uranium-235/236	1997	0.04	pci/g	J	0.04	5.26%
116252	Uranium-235/236	1997	0.04	pci/g	J	0.04	5.26%
111792	Uranium-235/236	IFP-SS-03	0.038	pci/g	J	0.038	0.00%

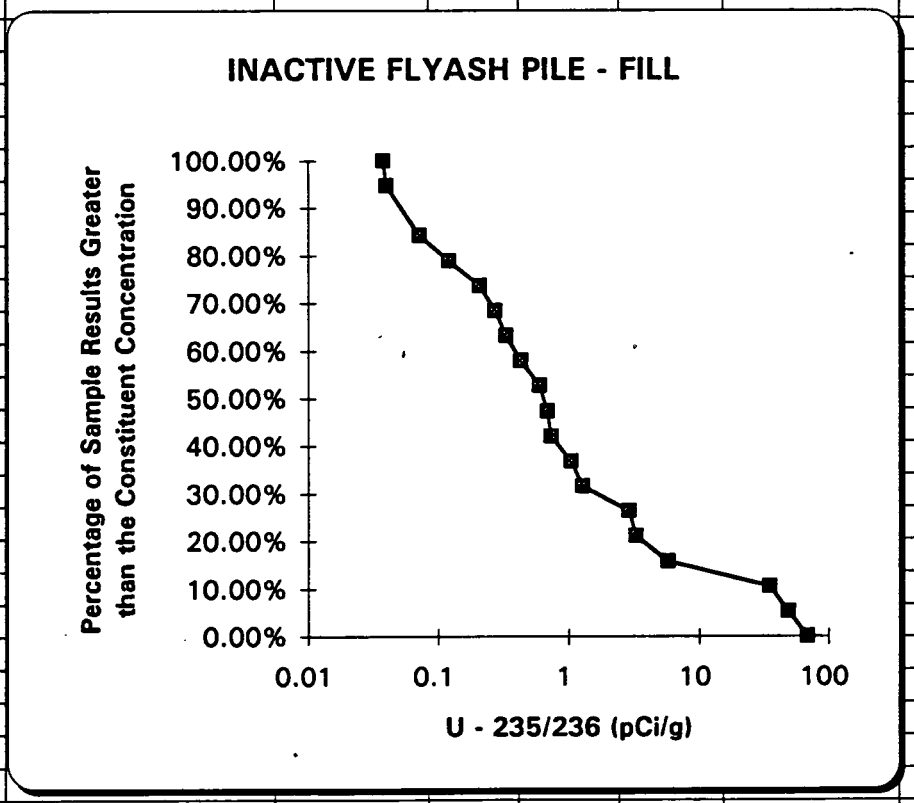

TABLE A.4-19
INACTIVE FLYASH PILE - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
116438	Uranium-238	11051	1570	pci/g	-	1570	100.00%
113492	Uranium-238	11006	803	pci/g	-	803	94.44%
116441	Uranium-238	11051	763	pci/g	-	763	88.88%
116427	Uranium-238	11052	115.8	pci/g	J	115.8	83.33%
116080	Uranium-238	1995	62.7	pci/g	-	62.7	77.77%
116177	Uranium-238	1997	23.7	pci/g	J	23.7	72.22%
067111	Uranium-238	1708	21.94	pci/g	J	21.94	66.66%
116301	Uranium-238	1994	20.7	pci/g	-	20.7	61.11%
112073	Uranium-238	1996	14.56	pci/g	-	14.56	55.55%
111795	Uranium-238	IFP-SS-06	11.2	pci/g	-	11.2	50.00%
111796	Uranium-238	IFP-SS-07	10.4	pci/g	-	10.4	44.44%
111794	Uranium-238	IFP-SS-05	7.56	pci/g	-	7.56	38.88%
111793	Uranium-238	IFP-SS-04	6.12	pci/g	-	6.12	33.33%
112054	Uranium-238	1998	4.78	pci/g	-	4.78	27.77%
111790	Uranium-238	IFP-SS-01	2.98	pci/g	-	2.98	22.22%
111791	Uranium-238	IFP-SS-02	1.44	pci/g	-	1.44	16.66%
116243	Uranium-238	1997	0.98	pci/g	J	0.98	11.11%
116252	Uranium-238	1997	0.91	pci/g	-	0.91	5.55%
111792	Uranium-238	IFP-SS-03	0.422	pci/g	J	0.422	0.00%

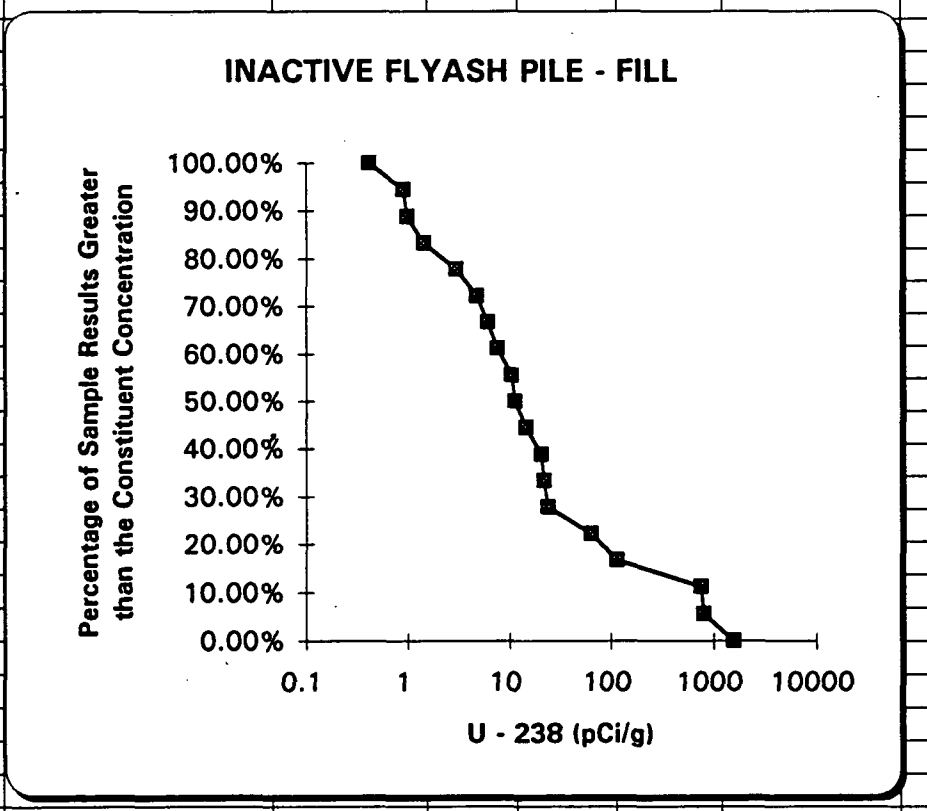

TABLE A.4-20
INACTIVE FLYASH PILE - IMPACTED TILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
112057	Arsenic	1998	5	mg/kg	J	5
067047	Arsenic	1710	3	mg/kg	-	3
067112	Arsenic	1708	1.7	mg/kg	J	1.7
067112	Dibenzo(a,h)anthracene	1708	820	ug/kg	U	410
112057	Dibenzo(a,h)anthracene	1998	420	ug/kg	UJ	210
067047	Dibenzo(a,h)anthracene	1710	370	ug/kg	U	185
067046	Neptunium-237	1710	0.6	pci/g	J	0.6
112057	Neptunium-237	1998	0.49	pci/g	N	0.49
067019	Neptunium-237	1711	0.6	pci/g	UJ	0.3
067121	Neptunium-237	1791	0.6	pci/g	UJ	0.3
007233	Neptunium-237	1016	0.6	pci/g	UJ	0.3
067046	Technetium-99	1710	0.9	pci/g	J	0.9
067618	Technetium-99	1849	0.9	pci/g	UJ	0.45
067019	Technetium-99	1711	0.9	pci/g	U	0.45
067121	Technetium-99	1791	0.9	pci/g	U	0.45
112057	Technetium-99	1998	0.36	pci/g	UJ	0.18
067046	Uranium-235/236	1710	18.5	pci/g	-	18.5
112057	Uranium-235/236	1998	0.4	pci/g	J	0.4
067618	Uranium-235/236	1849	0.6	pci/g	U	0.3
067019	Uranium-235/236	1711	0.6	pci/g	U	0.3
007233	Uranium-235/236	1016	0.6	pci/g	UJ	0.3

TABLE A.4-20
INACTIVE FLYASH PILE - IMPACTED TILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067046	Radium-226	1710	36	pci/g	-	36	100.00%
112057	Radium-226	1998	2.07	pci/g	-	2.07	80.00%
067019	Radium-226	1711	1.48	pci/g	-	1.48	60.00%
067121	Radium-226	1791	1.39	pci/g	J	1.39	40.00%
067618	Radium-226	1849	0.95	pci/g	J	0.95	20.00%
007233	Radium-226	1016	0.7	pci/g	J	0.7	0.00%

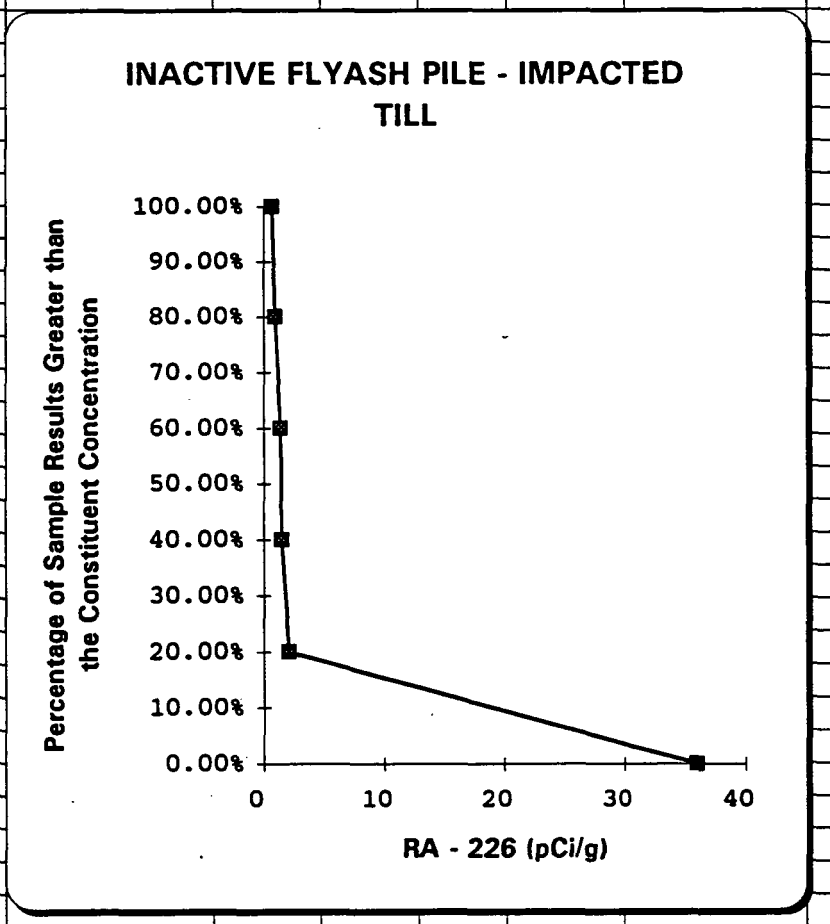

TABLE A.4-20
INACTIVE FLYASH PILE - IMPACTED TILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067046	Radium-228	1710	3.12	pci/g	-	3.12	100.00%
112057	Radium-228	1998	1.59	pci/g	-	1.59	80.00%
067019	Radium-228	1711	1.27	pci/g	-	1.27	60.00%
067121	Radium-228	1791	1.03	pci/g	J	1.03	40.00%
007233	Radium-228	1016	0.8	pci/g	J	0.8	20.00%
067618	Radium-228	1849	0.74	pci/g	J	0.74	0.00%

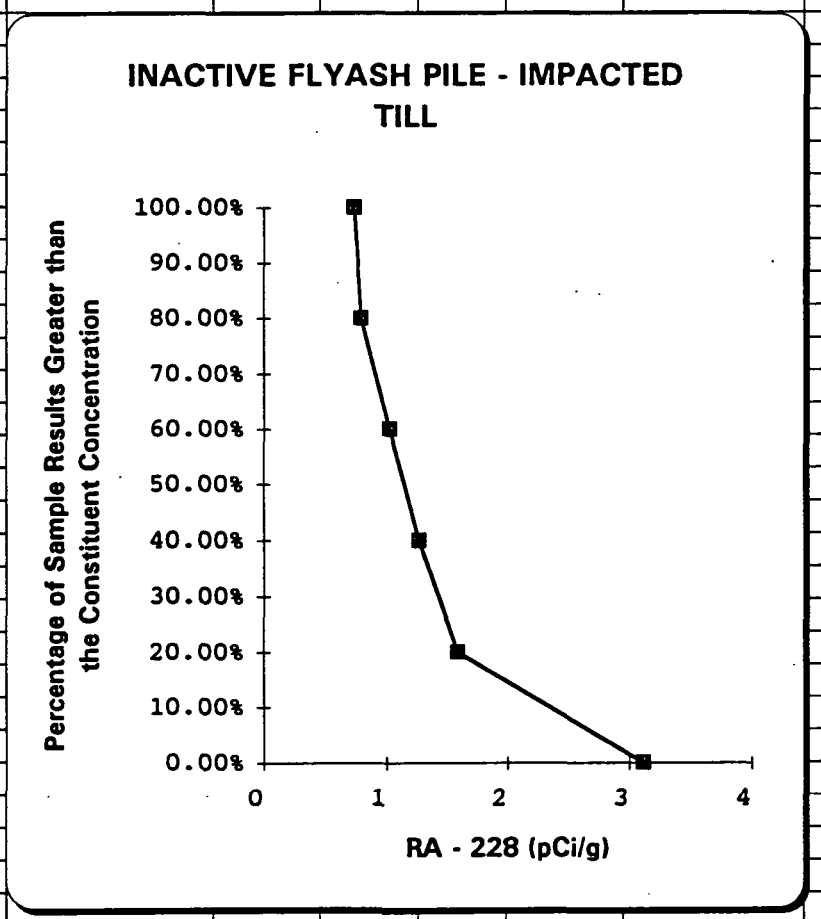

TABLE A.4-20
INACTIVE FLYASH PILE - IMPACTED TILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067046	Thorium-228	1710	3.03	pci/g	J	3.03	100.00%
067019	Thorium-228	1711	1.56	pci/g	J	1.56	80.00%
067618	Thorium-228	1849	1.44	pci/g	-	1.44	60.00%
112057	Thorium-228	1998	1.3	pci/g	-	1.3	40.00%
067121	Thorium-228	1791	1.11	pci/g	J	1.11	20.00%
007233	Thorium-228	1016	1.1	pci/g	-	1.1	0.00%

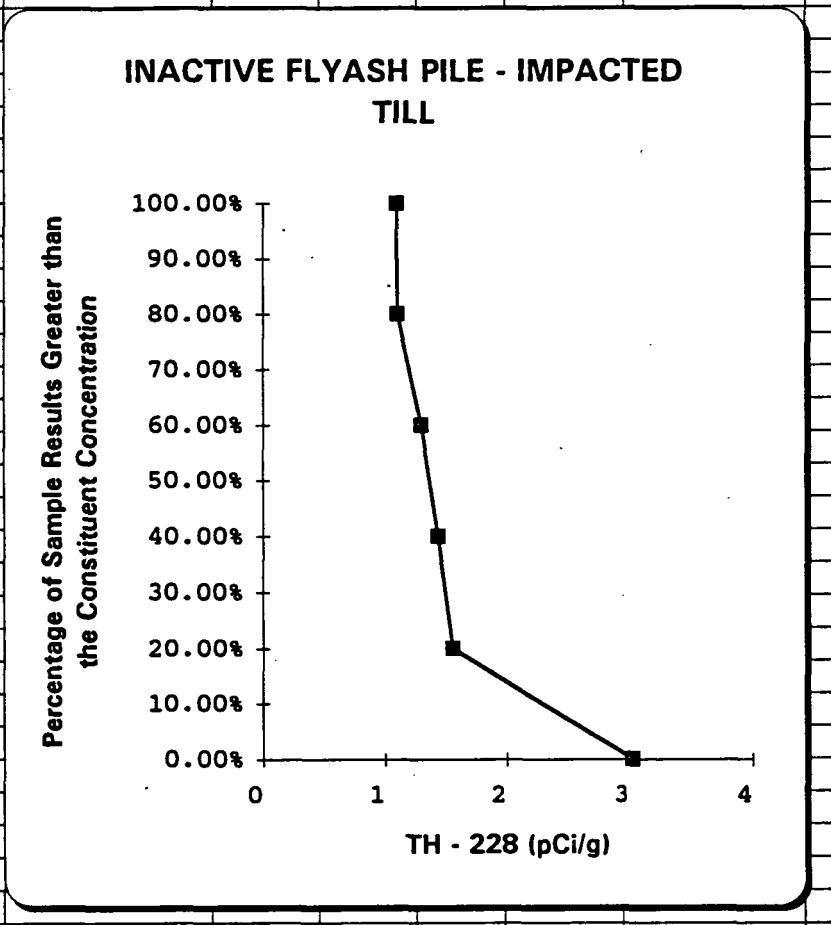

TABLE A.4-20
INACTIVE FLYASH PILE - IMPACTED TILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067046	Thorium-230	1710	54.6	pci/g	-	54.6	100.00%
112057	Thorium-230	1998	4.17	pci/g	-	4.17	80.00%
067019	Thorium-230	1711	2.14	pci/g	J	2.14	60.00%
067121	Thorium-230	1791	1.73	pci/g	J	1.73	40.00%
067618	Thorium-230	1849	1.69	pci/g	-	1.69	20.00%
007233	Thorium-230	1016	0.9	pci/g	-	0.9	0.00%

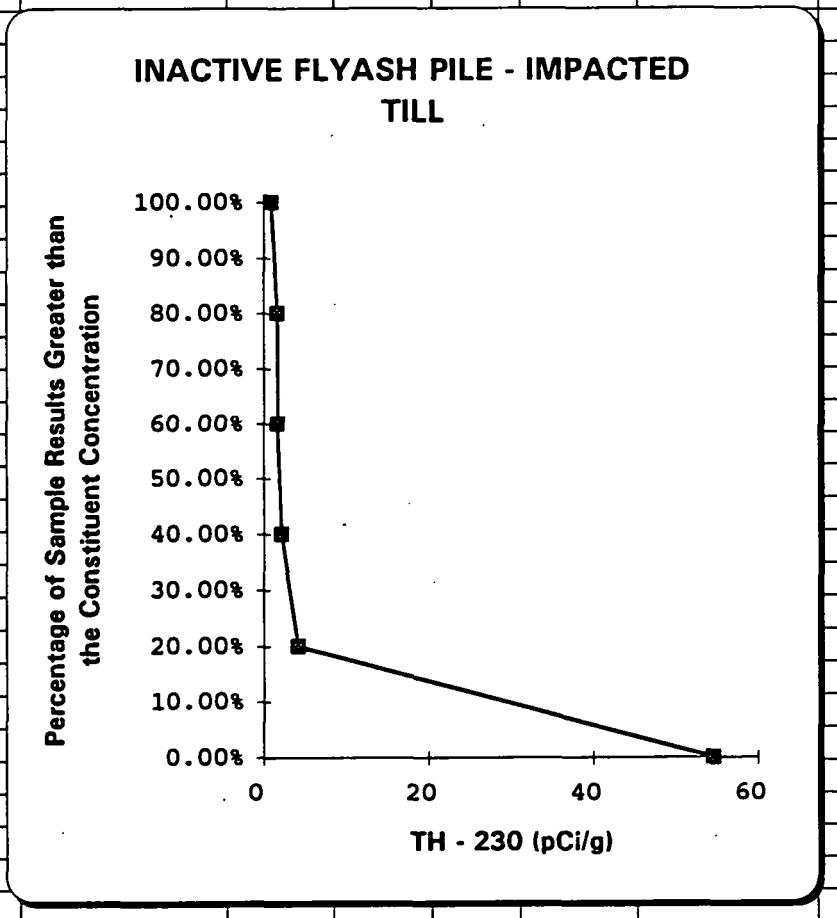

TABLE A.4-20
INACTIVE FLYASH PILE - IMPACTED TILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067046	Thorium-232	1710	3.28	pci/g	-	3.28	100.00%
112057	Thorium-232	1998	1.35	pci/g	-	1.35	80.00%
067019	Thorium-232	1711	1.1	pci/g	J	1.1	60.00%
067121	Thorium-232	1791	0.95	pci/g	J	0.95	40.00%
067618	Thorium-232	1849	0.91	pci/g	-	0.91	20.00%
007233	Thorium-232	1016	0.6	pci/g	-	0.6	0.00%

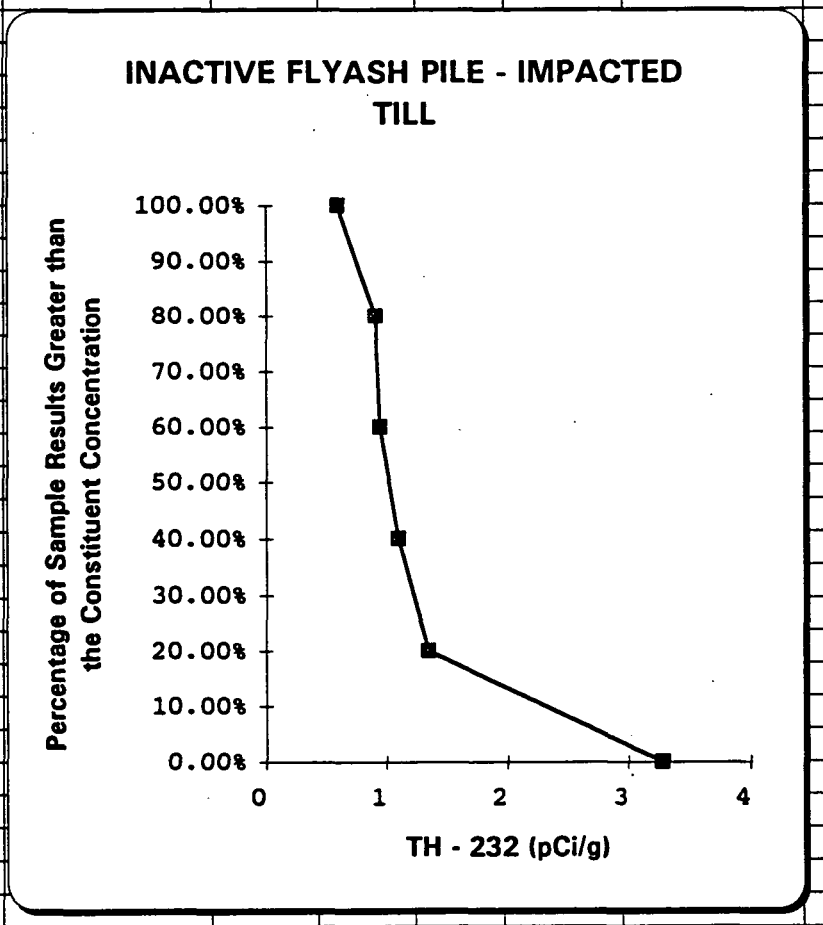

TABLE A.4-20
INACTIVE FLYASH PILE - IMPACTED TILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067121	Uranium, Total	1791	873	mg/kg	J	873	100.00%
067046	Uranium, Total	1710	660	mg/kg	-	660	75.00%
112057	Uranium, Total	1998	31.7	mg/kg	-	31.7	50.00%
067019	Uranium, Total	1711	18	mg/kg	J	18	25.00%
067618	Uranium, Total	1849	6.93	mg/kg	J	6.93	0.00%

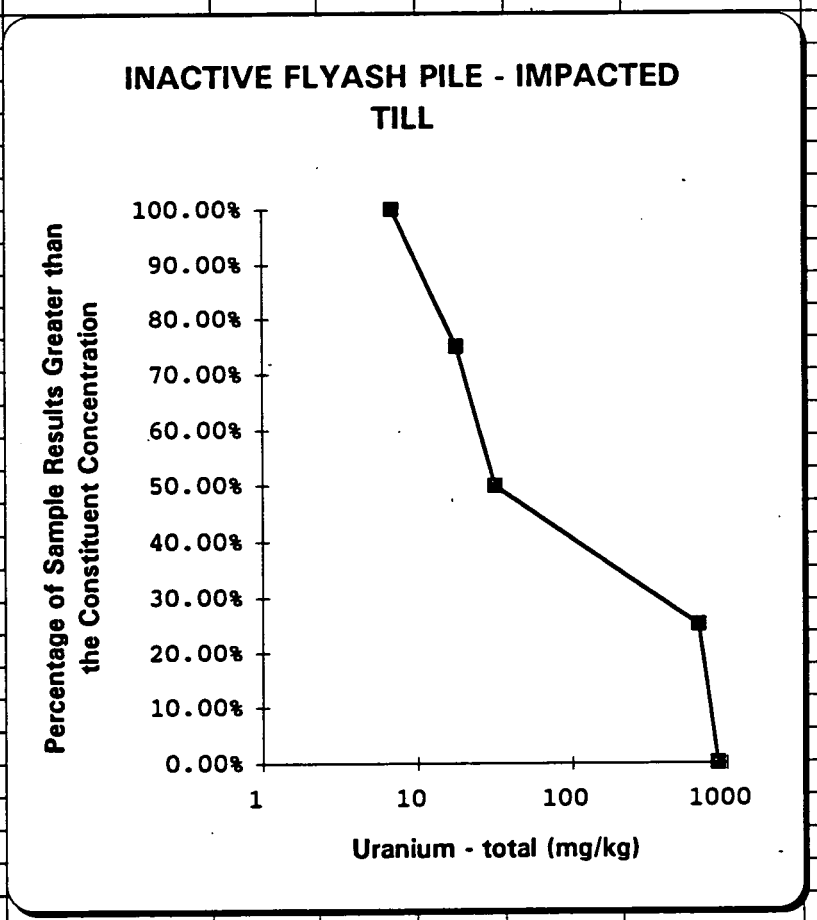

TABLE A.4-20
INACTIVE FLYASH PILE - IMPACTED TILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067046	Uranium-234	1710	187	pci/g	-	187	100.00%
007233	Uranium-234	1016	10.7	pci/g	J	10.7	75.00%
112057	Uranium-234	1998	8.6	pci/g	-	8.6	50.00%
067019	Uranium-234	1711	4.95	pci/g	-	4.95	25.00%
067618	Uranium-234	1849	1.73	pci/g	-	1.73	0.00%

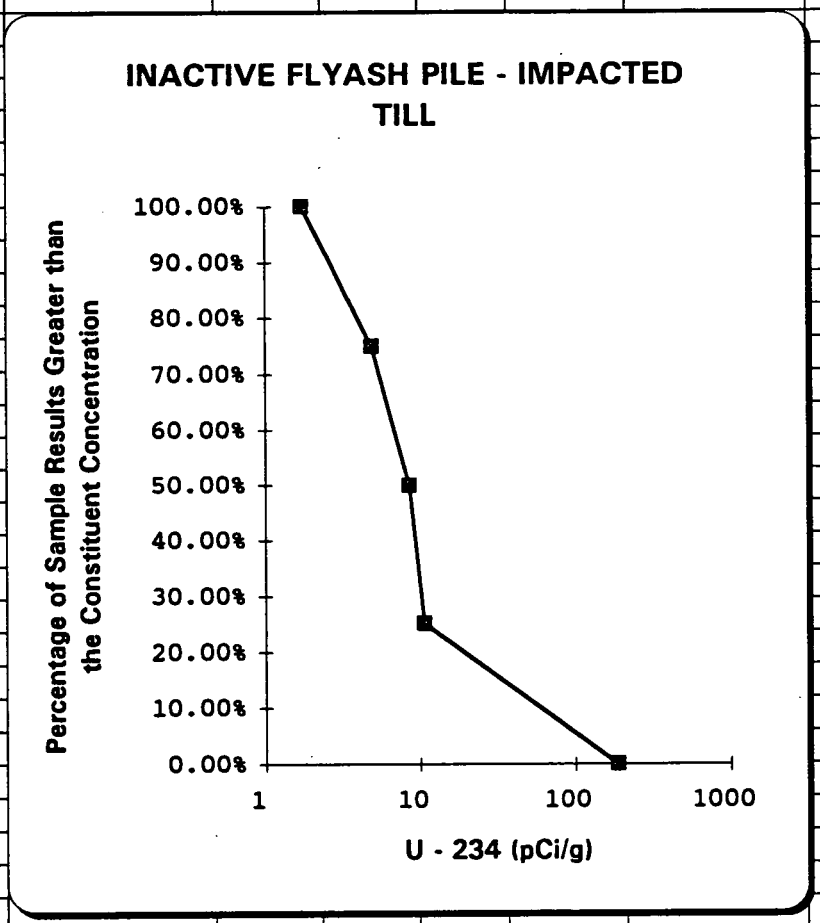

TABLE A.4-20
INACTIVE FLYASH PILE - IMPACTED TILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067046	Uranium-238	1710	191	pci/g	-	191	100.00%
007233	Uranium-238	1016	11.4	pci/g	J	11.4	75.00%
112057	Uranium-238	1998	9.22	pci/g	-	9.22	50.00%
067019	Uranium-238	1711	4.54	pci/g	-	4.54	25.00%
067618	Uranium-238	1849	1.76	pci/g	-	1.76	0.00%

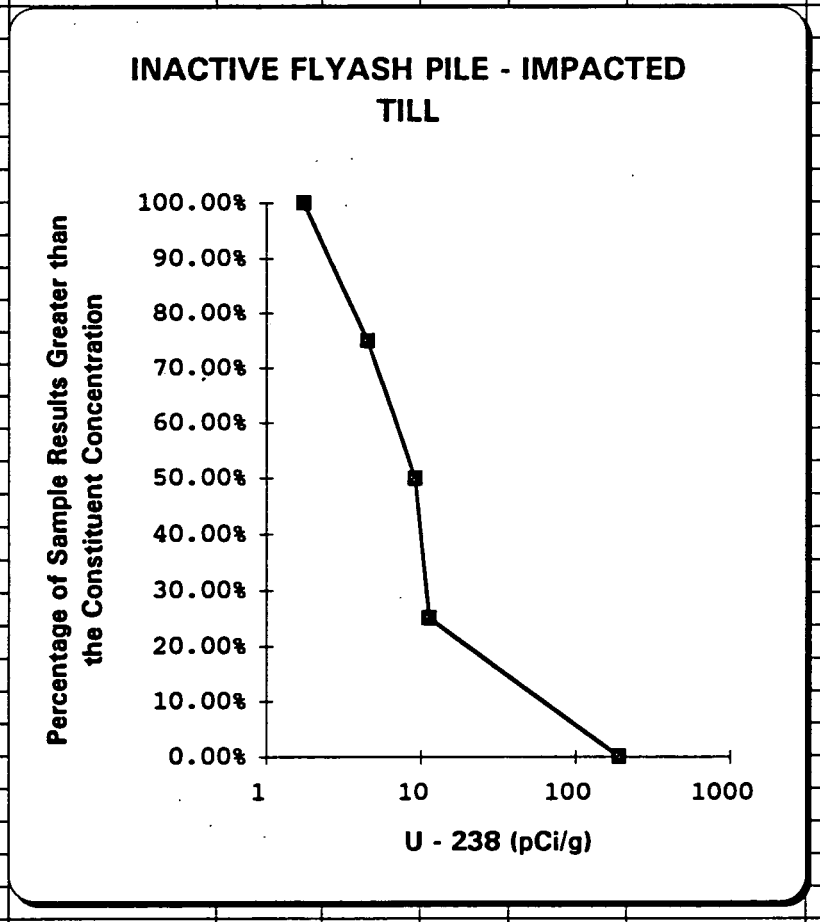

TABLE A.4-21
INACTIVE FLYASH PILE - OTHER TILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
067020	Arsenic	1711	6.9	mg/kg	J	6.9
116172	Arsenic	1995	6	mg/kg	J	6
112065	Arsenic	1998	3.7	mg/kg	J	3.7
067122	Arsenic	1791	3.6	mg/kg	J	3.6
067122	Dibenzo(a,h)anthracene	1791	820	ug/kg	U	410
067020	Dibenzo(a,h)anthracene	1711	460	ug/kg	U	230
116172	Dibenzo(a,h)anthracene	1995	410	ug/kg	U	205
112065	Dibenzo(a,h)anthracene	1998	360	ug/kg	UJ	180
112065	Neptunium-237	1998	0.16	pci/g	N	0.16
116172	Neptunium-237	1995	0.137	pci/g	N	0.137
116172	Radium-226	1995	1.01	pci/g	-	1.01
112065	Radium-226	1998	0.79	pci/g	-	0.79
112065	Radium-228	1998	0.73	pci/g	-	0.73
116172	Radium-228	1995	0.72	pci/g	-	0.72
116172	Technetium-99	1995	0.35	pci/g	UJ	0.175
112065	Technetium-99	1998	0.34	pci/g	UJ	0.17
116172	Thorium-228	1995	0.833	pci/g	J	0.833
112065	Thorium-228	1998	0.535	pci/g	J	0.535
116172	Thorium-230	1995	1.62	pci/g	J	1.62
112065	Thorium-230	1998	0.874	pci/g	J	0.874
112065	Thorium-232	1998	0.732	pci/g	J	0.732
116172	Thorium-232	1995	0.613	pci/g	J	0.613
112065	Uranium, Total	1998	4.39	mg/kg	-	4.39
116172	Uranium, Total	1995	3.41	mg/kg	-	3.41
112065	Uranium-234	1998	0.77	pci/g	-	0.77
116172	Uranium-234	1995	0.49	pci/g	J	0.49
116172	Uranium-235/236	1995	0.052	pci/g	J	0.052
112065	Uranium-235/236	1998	0.039	pci/g	J	0.039
112065	Uranium-238	1998	0.85	pci/g	-	0.85
116172	Uranium-238	1995	0.69	pci/g	-	0.69

TABLE A.4-22
INACTIVE FLYASH PILE - TILL (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
007301	Neptunium-237	1047	0.6	pci/g	U	0.3
007301	Radium-226	1047	0.7	pci/g	J	0.7
007301	Radium-228	1047	0.6	pci/g	J	0.6
007301	Technetium-99	1047	1.5	pci/g	-	1.5
007301	Thorium-228	1047	0.8	pci/g	-	0.8
007301	Thorium-230	1047	1.4	pci/g	-	1.4
007301	Thorium-232	1047	0.6	pci/g	U	0.3
007301	Uranium-234	1047	0.6	pci/g	UJ	0.3
007301	Uranium-235/236	1047	0.6	pci/g	UJ	0.3
007301	Uranium-238	1047	0.7	pci/g	J	0.7

TABLE A.4-23
INACTIVE FLYASH PILE - GMA SOIL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
116070	Dibenzo(a,h)anthracene	1996	420	ug/kg	UJ	210	100.00%
116336	Dibenzo(a,h)anthracene	11056	390	ug/kg	U	195	87.50%
116341	Dibenzo(a,h)anthracene	11054	370	ug/kg	U	185	75.00%
116312	Dibenzo(a,h)anthracene	1994	350	ug/kg	U	175	37.50%
116338	Dibenzo(a,h)anthracene	11057	350	ug/kg	U	175	37.50%
116340	Dibenzo(a,h)anthracene	11054	350	ug/kg	U	175	37.50%
116257	Dibenzo(a,h)anthracene	1997	340	ug/kg	U	170	0.00%
116332	Dibenzo(a,h)anthracene	11055	340	ug/kg	U	170	0.00%
116337	Dibenzo(a,h)anthracene	11057	340	ug/kg	U	170	0.00%

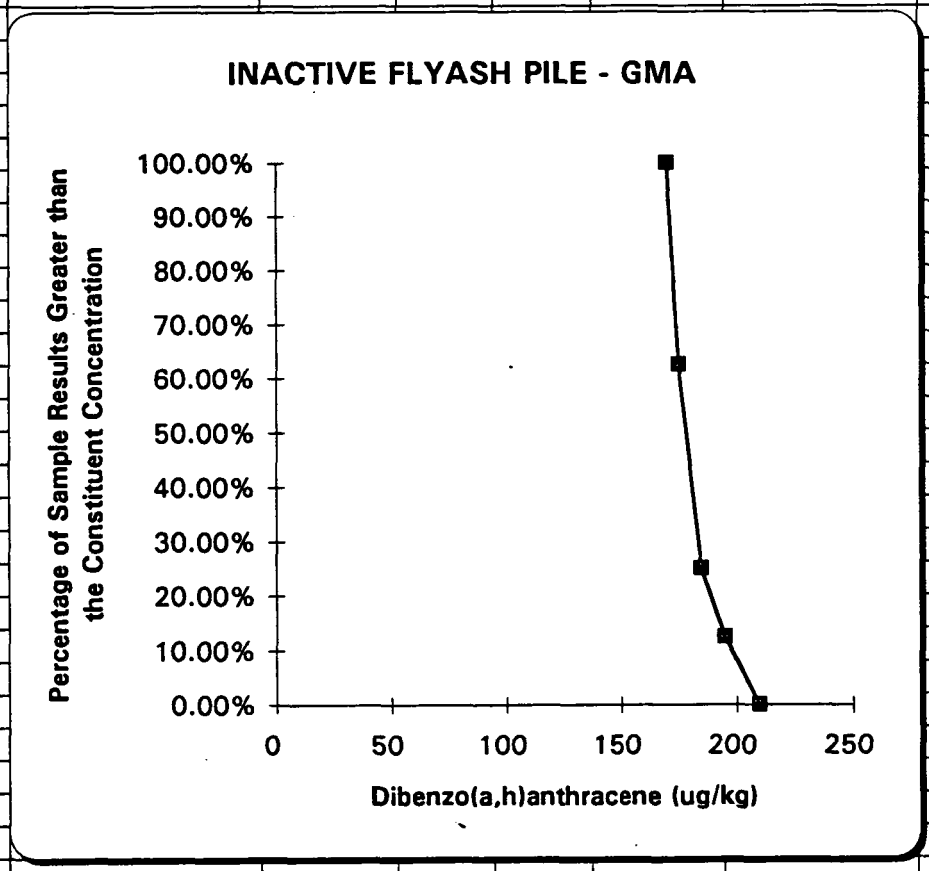

TABLE A.4-23
INACTIVE FLYASH PILE - GMA SOIL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
116257	Arsenic	1997	5.1	mg/kg	-	5.1
116070	Arsenic	1996	4.8	mg/kg	J	4.8
116312	Arsenic	1994	3	mg/kg	-	3
116257	Neptunium-237	1997	0.18	pci/g	N	0.18
116070	Neptunium-237	1996	0.086	pci/g	N	0.086
116070	Radium-226	1996	0.87	pci/g	-	0.87
116257	Radium-226	1997	0.78	pci/g	-	0.78
116312	Radium-226	1994	0.56	pci/g	-	0.56
116070	Radium-228	1996	0.53	pci/g	-	0.53
116257	Radium-228	1997	0.34	pci/g	J	0.34
116312	Radium-228	1994	0.442	pci/g	UJ	0.221
116257	Technetium-99	1997	0.38	pci/g	UJ	0.19
116070	Technetium-99	1996	0.37	pci/g	UJ	0.185
116312	Technetium-99	1994	0.352	pci/g	UJ	0.176
116070	Thorium-228	1996	0.41	pci/g	J	0.41
116257	Thorium-228	1997	0.4	pci/g	J	0.4
116312	Thorium-228	1994	0.308	pci/g	J	0.308
116070	Thorium-230	1996	2.03	pci/g	-	2.03
116257	Thorium-230	1997	1.08	pci/g	-	1.08
116312	Thorium-230	1994	0.893	pci/g	-	0.893
116257	Thorium-232	1997	0.36	pci/g	J	0.36
116070	Thorium-232	1996	0.29	pci/g	J	0.29
116312	Thorium-232	1994	0.264	pci/g	J	0.264
116257	Uranium, Total	1997	5.86	mg/kg	-	5.86
116070	Uranium, Total	1996	3.62	mg/kg	J	3.62
116312	Uranium, Total	1994	3.44	mg/kg	J	3.44
116257	Uranium-234	1997	1.29	pci/g	-	1.29
116070	Uranium-234	1996	0.71	pci/g	-	0.71
116312	Uranium-234	1994	0.501	pci/g	-	0.501
116257	Uranium-235/236	1997	0.08	pci/g	J	0.08
116070	Uranium-235/236	1996	0.043	pci/g	J	0.043
116312	Uranium-235/236	1994	0.0303	pci/g	J	0.0303
116257	Uranium-238	1997	1.44	pci/g	-	1.44
116070	Uranium-238	1996	0.86	pci/g	-	0.86
116312	Uranium-238	1994	0.471	pci/g	J	0.471

TABLE A.4-24
INACTIVE FLYASH PILE - GMA (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
010441	Neptunium-237	4016	0.6	pci/g	U	0.3
008960	Neptunium-237	2047	0.6	pci/g	U	0.3
010450	Neptunium-237	4016	0.6	pci/g	U	0.3
010454	Neptunium-237	4016	0.6	pci/g	U	0.3
010441	Radium-226	4016	0.5	pci/g	J	0.5
008960	Radium-226	2047	0.4	pci/g	J	0.4
010454	Radium-226	4016	0.3	pci/g	UJ	0.15
010441	Radium-228	4016	0.5	pci/g	UJ	0.25
008960	Radium-228	2047	0.5	pci/g	UJ	0.25
010454	Radium-228	4016	0.5	pci/g	UJ	0.25
010441	Technetium-99	4016	0.9	pci/g	U	0.45
008960	Technetium-99	2047	0.9	pci/g	U	0.45
010450	Technetium-99	4016	0.9	pci/g	U	0.45
010454	Technetium-99	4016	0.9	pci/g	U	0.45
010441	Thorium-228	4016	0.6	pci/g	U	0.3
010454	Thorium-228	4016	0.6	pci/g	U	0.3
010441	Thorium-230	4016	0.6	pci/g	U	0.3
010454	Thorium-230	4016	0.6	pci/g	U	0.3
010441	Thorium-232	4016	0.6	pci/g	U	0.3
010454	Thorium-232	4016	0.6	pci/g	U	0.3
010441	Uranium, Total	4016	2	mg/kg	UJ	1
008960	Uranium, Total	2047	2	mg/kg	UJ	1
010454	Uranium, Total	4016	2	mg/kg	UJ	1
010450	Uranium-234	4016	0.7	pci/g	-	0.7
010441	Uranium-234	4016	0.6	pci/g	U	0.3
010454	Uranium-234	4016	0.6	pci/g	U	0.3
010441	Uranium-235/236	4016	0.6	pci/g	U	0.3
010450	Uranium-235/236	4016	0.6	pci/g	U	0.3
010454	Uranium-235/236	4016	0.6	pci/g	U	0.3
010450	Uranium-238	4016	0.8	pci/g	-	0.8
010441	Uranium-238	4016	0.6	pci/g	U	0.3
010454	Uranium-238	4016	0.6	pci/g	U	0.3

TABLE A.4-25
INACTIVE FLYASH PILE - SEDIMENT

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
009145	Arsenic	W-11	2.7	mg/kg	J	2.7
111813	Arsenic	IFP-SD-03	7.3	mg/kg	-	7.3
111815	Arsenic	IFP-SD-04	3.6	mg/kg	-	3.6
111812	Arsenic	IFP-SD-02	5.4	mg/kg	-	5.4
112017	Arsenic	IFP-SD-04	2.4	mg/kg	J	2.4
112021	Arsenic	IFP-SD-02	1.7	mg/kg	J	1.7
116219	Arsenic	IFP-SD-03	3.4	mg/kg	J	3.4
111812	NP-237	IFP-SD-02	0.05	pci/g	U	0.025
112017	NP-237	IFP-SD-04	0.11	pci/g	N	0.11
112021	NP-237	IFP-SD-02	0.019	pci/g	N	0.019
116219	NP-237	IFP-SD-03	0.171	pci/g	N	0.171
111812	RA-226	IFP-SD-02	0.75	pci/g	-	0.75
112017	RA-226	IFP-SD-04	0.7	pci/g	J	0.7
112021	RA-226	IFP-SD-02	0.65	pci/g	J	0.65
116219	RA-226	IFP-SD-03	0.996	pci/g	-	0.996
009048	RA-226	ASIT-008	0.885	pci/g	J	0.885
009049	RA-226	ASIT-009	0.687	pci/g	J	0.687
111812	RA-228	IFP-SD-02	0.51	pci/g	-	0.51
112017	RA-228	IFP-SD-04	0.59	pci/g	-	0.59
112021	RA-228	IFP-SD-02	0.67	pci/g	-	0.67
116219	RA-228	IFP-SD-03	0.51	pci/g	-	0.51
009048	RA-228	ASIT-008	0.901	pci/g	J	0.901
009049	RA-228	ASIT-009	0.69	pci/g	J	0.69
111812	TC-99	IFP-SD-02	0.42	pci/g	UJ	0.21
112017	TC-99	IFP-SD-04	0.38	pci/g	UJ	0.19
112021	TC-99	IFP-SD-02	0.382	pci/g	UJ	0.191
116219	TC-99	IFP-SD-03	0.36	pci/g	UJ	0.18
111812	TH-228	IFP-SD-02	0.49	pci/g	J	0.49
112017	TH-228	IFP-SD-04	0.41	pci/g	J	0.41
112021	TH-228	IFP-SD-02	0.42	pci/g	J	0.42
116219	TH-228	IFP-SD-03	0.517	pci/g	J	0.517
111812	TH-230	IFP-SD-02	1.28	pci/g	J	1.28
112017	TH-230	IFP-SD-04	0.86	pci/g	-	0.86
112021	TH-230	IFP-SD-02	0.75	pci/g	-	0.75
116219	TH-230	IFP-SD-03	0.879	pci/g	J	0.879
111812	TH-232	IFP-SD-02	0.55	pci/g	J	0.55
112017	TH-232	IFP-SD-04	0.58	pci/g	J	0.58
112021	TH-232	IFP-SD-02	0.39	pci/g	J	0.39
116219	TH-232	IFP-SD-03	0.65	pci/g	J	0.65
111812	U-234	IFP-SD-02	1.5	pci/g	-	1.5
112017	U-234	IFP-SD-04	0.8	pci/g	J	0.8
112021	U-234	IFP-SD-02	0.77	pci/g	J	0.77
116219	U-234	IFP-SD-03	0.64	pci/g	-	0.64
111812	U-235/236	IFP-SD-02	0.12	pci/g	J	0.12
112017	U-235/236	IFP-SD-04	0.027	pci/g	J	0.027
112021	U-235/236	IFP-SD-02	0.054	pci/g	J	0.054
116219	U-235/236	IFP-SD-03	0.029	pci/g	J	0.029
111812	U-238	IFP-SD-02	1.68	pci/g	-	1.68
112017	U-238	IFP-SD-04	0.74	pci/g	J	0.74
112021	U-238	IFP-SD-02	0.72	pci/g	J	0.72
116219	U-238	IFP-SD-03	0.9	pci/g	-	0.9

TABLE A.4-25
INACTIVE FLYASH PILE - SEDIMENT

111812	U-TOTAL	IFP-SD-02	12	mg/kg	J	12
112017	U-TOTAL	IFP-SD-04	9.9	mg/kg	J	9.9
112021	U-TOTAL	IFP-SD-02	12.3	mg/kg	J	12.3
116219	U-TOTAL	IFP-SD-03	4.09	mg/kg	-	4.09
009048	U-TOTAL	ASIT-008	13.9	mg/kg	J	13.9
009049	U-TOTAL	ASIT-009	5.38	mg/kg	J	5.38
009145	Dibenzo(a,h)anthracene	W-11	400	ug/kg	U	200
111813	Dibenzo(a,h)anthracene	IFP-SD-03	440	ug/kg	UJ	220
111815	Dibenzo(a,h)anthracene	IFP-SD-04	460	ug/kg	U	230
111812	Dibenzo(a,h)anthracene	IFP-SD-02	400	ug/kg	U	200
112017	Dibenzo(a,h)anthracene	IFP-SD-04	410	ug/kg	U	205
112021	Dibenzo(a,h)anthracene	IFP-SD-02	400	ug/kg	U	200
116219	Dibenzo(a,h)anthracene	IFP-SD-03	410	ug/kg	U	205

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TABLE A.4-26
INACTIVE FLYASH PILE - PGW (inside battery limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
047005	Arsenic	FILTERED	06/11/92	1711	0.05	mg/l	UJ
047009	Arsenic	*U	06/11/92	1711	0.05	mg/l	UJ
047005	Arsenic	UNFILTERED	6/16/92	1711	0.05	mg/l	UJ
47009	Beryllium	FILTERED	06/11/92	1711	0.002	mg/l	U

TABLE A.4-27
INACTIVE FLYASH PILE - PGW (outside battery limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
110892	Arsenic	FILTERED	04/27/93	1047	0.001	mg/l	U
003102	Arsenic	FILTERED	04/20/88	1047	0.2	mg/l	U
003855	Arsenic	FILTERED	01/22/89	1047	0.002	mg/l	U
110892	Beryllium	FILTERED	04/27/93	1047	0.0031	mg/l	U
110892	Cesium-137	UNFILTERED	04/27/93	1047	15	pci/l	UJ
110892	Dibenzo(a,h)anthracene	UNFILTERED	04/27/93	1047	10	ug/l	U
003369	Neptunium-237	UNFILTERED	07/24/88	1047	1	pci/l	UJ
110892	Neptunium-237	UNFILTERED	04/27/93	1047	0.13	pci/l	U
003855	Neptunium-237	UNFILTERED	01/22/89	1047	1	pci/l	U
003648	Neptunium-237	*U	10/23/88	1047	1	pci/l	UJ
003369	Radium-226	UNFILTERED	07/24/88	1047	1	pci/l	U
110892	Radium-226	UNFILTERED	04/27/93	1047	0.674	pci/l	UJ
003102	Radium-226	UNFILTERED	04/20/88	1047	1	pci/l	UJ
003855	Radium-226	UNFILTERED	01/22/89	1047	1	pci/l	U
003648	Radium-226	*U	10/23/88	1047	1	pci/l	U
003369	Radium-228	UNFILTERED	07/24/88	1047	3	pci/l	U
110892	Radium-228	UNFILTERED	04/27/93	1047	5.93	pci/l	J
003102	Radium-228	UNFILTERED	04/20/88	1047	3	pci/l	UJ
003855	Radium-228	UNFILTERED	01/22/89	1047	3.4	pci/l	UJ
003648	Radium-228	*U	10/23/88	1047	3	pci/l	U
003369	Technetium-99	UNFILTERED	07/24/88	1047	30	pci/l	U
110892	Technetium-99	UNFILTERED	04/27/93	1047	10.5	pci/l	UJ
003102	Technetium-99	UNFILTERED	04/20/88	1047	30	pci/l	U
003855	Technetium-99	UNFILTERED	01/22/89	1047	30	pci/l	U
003648	Technetium-99	*U	10/23/88	1047	43.7	pci/l	U
066830	Technetium-99	*U	12/12/89	1047	30	pci/l	U
003369	Thorium-228	UNFILTERED	07/24/88	1047	1	pci/l	UJ
110892	Thorium-228	UNFILTERED	04/27/93	1047	0.132	pci/l	UJ
003102	Thorium-228	UNFILTERED	04/20/88	1047	1	pci/l	UJ
003855	Thorium-228	UNFILTERED	01/22/89	1047	1	pci/l	U
003648	Thorium-228	*U	10/23/88	1047	1.1	pci/l	-
066830	Thorium-228	*U	12/12/89	1047	1	pci/l	U
003369	Thorium-230	UNFILTERED	07/24/88	1047	1	pci/l	UJ
110892	Thorium-230	UNFILTERED	04/27/93	1047	0.227	pci/l	J
003102	Thorium-230	UNFILTERED	04/20/88	1047	1	pci/l	UJ
003855	Thorium-230	UNFILTERED	01/22/89	1047	1	pci/l	U
003369	Thorium-232	UNFILTERED	07/24/88	1047	1	pci/l	UJ
110892	Thorium-232	UNFILTERED	04/27/93	1047	0.122	pci/l	UJ
003102	Thorium-232	UNFILTERED	04/20/88	1047	1	pci/l	UJ
003855	Thorium-232	UNFILTERED	01/22/89	1047	1	pci/l	U
003648	Thorium-232	*U	10/23/88	1047	1.1	pci/l	J
003369	Uranium, Total	UNFILTERED	07/24/88	1047	9	ug/l	-
110892	Uranium, Total	UNFILTERED	04/27/93	1047	5.36	ug/l	-
003855	Uranium, Total	UNFILTERED	01/22/89	1047	6	ug/l	-
066830	Uranium, Total	*U	12/12/89	1047	10.3	ug/l	-
003369	Uranium-234	UNFILTERED	07/24/88	1047	7.4	pci/l	J
110892	Uranium-234	UNFILTERED	04/27/93	1047	2.33	pci/l	-
003102	Uranium-234	UNFILTERED	04/20/88	1047	3.7	pci/l	J
003855	Uranium-234	UNFILTERED	01/22/89	1047	3.7	pci/l	-
003648	Uranium-234	*U	10/23/88	1047	7.3	pci/l	J
066830	Uranium-234	*U	12/12/89	1047	3.99	pci/l	-

TABLE A.4-27
INACTIVE FLYASH PILE - PGW (outside battery limits)

003369	Uranium-235/236	UNFILTERED	07/24/88	1047	1	pci/l	UJ
110892	Uranium-235/236	UNFILTERED	04/27/93	1047	0.124	pci/l	UJ
003102	Uranium-235/236	UNFILTERED	04/20/88	1047	1	pci/l	UJ
003855	Uranium-235/236	UNFILTERED	01/22/89	1047	1	pci/l	U
003648	Uranium-235/236	*U	10/23/88	1047	1	pci/l	UJ
066830	Uranium-235/236	*U	12/12/89	1047	1	pci/l	U
003369	Uranium-238	UNFILTERED	07/24/88	1047	3.2	pci/l	J
110892	Uranium-238	UNFILTERED	04/27/93	1047	1.62	pci/l	-
003102	Uranium-238	UNFILTERED	04/20/88	1047	2.5	pci/l	J
003855	Uranium-238	UNFILTERED	01/22/89	1047	2.1	pci/l	-
003648	Uranium-238	*U	10/23/88	1047	3.6	pci/l	J
066830	Uranium-238	*U	12/12/89	1047	2.81	pci/l	-

APPENDIX A.5

SOUTH FIELD

TABLE A.5–1
STATISTICAL SUMMARY FOR SOIL/WASTE
SOUTH FIELD

Analyte	Units	Distribution	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N	95%(N	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
SF – Surface Soil																	
Aroclor–1254	ug/kg	Undefined	21	1	89	89	39	50	24.810	–	–	–	–	–	89.000	89.000	89.000
Aroclor–1260	ug/kg	Undefined	21	2	38	52	40	50	23.905	–	–	–	–	–	38.000	38.000	38.000
Arsenic	mg/kg	LogNormal	21	21	4.6	9.3	–	–	–	–	–	6.680	7.268	9.261	–	–	7.268
Benzo(a)anthracene	ug/kg	Undefined	21	12	44	5500	410	500	571.810	–	–	–	–	–	160.000	2500.000	2500.000
Benzo(a)pyrene	ug/kg	Undefined	21	12	51	9400	410	500	890.048	–	–	–	–	–	170.000	4700.000	4700.000
Benzo(b)fluoranthene	ug/kg	Undefined	21	12	46	6200	410	500	687.286	–	–	–	–	–	160.000	3900.000	3900.000
Benzo(k)fluoranthene	ug/kg	Undefined	21	13	49	7300	410	500	706.714	–	–	–	–	–	180.000	3300.000	3300.000
Beryllium	mg/kg	LogNormal	21	20	0.49	1.9	0.92	0.92	–	–	–	0.815	0.942	1.360	–	–	0.942
Cesium–137	pci/g	Normal	21	19	0.089	0.836	0.088	0.109	0.403	0.519	0.821	–	–	–	–	–	0.519
Dibenzo(a,h)anthracene	ug/kg	Undefined	21	7	43	1900	410	500	317.048	–	–	–	–	–	43.000	1100.000	1100.000
Dieldrin	ug/kg	Undefined	21	1	9.7	9.7	3.9	5	2.517	–	–	–	–	–	9.700	9.700	9.700
Indeno(1,2,3–cd)pyrene	ug/kg	Undefined	21	10	45	6000	410	500	628.000	–	–	–	–	–	110.000	3000.000	3000.000
Neptunium–237	pci/g	Normal	15	13	0.056	0.483	0.052	0.074	0.174	0.240	0.371	–	–	–	–	–	0.240
Radium–226	pci/g	Undefined	21	21	0.874	30.8	–	–	3.734	–	–	–	–	–	1.440	21.600	21.600
Radium–228	pci/g	Undefined	21	21	0.917	3.88	–	–	1.306	–	–	–	–	–	1.210	1.920	1.920
Strontium–90	pci/g	Undefined	21	5	0.16	1	0.36	0.744	0.324714	–	–	–	–	–	0.16	0.942	0.942
Technetium–99	pci/g	Undefined	21	1	142	142	0.31	0.392	6.931	–	–	–	–	–	142.000	142.000	142.000
Thorium–228	pci/g	Undefined	16	16	0.658	4.41	–	–	1.183	–	–	–	–	–	1.060	4.410	4.410
Thorium–230	pci/g	Undefined	16	16	0.117	13.8	–	–	3.117	–	–	–	–	–	2.220	13.800	13.800
Thorium–232	pci/g	Undefined	16	16	0.19	3.99	–	–	1.071	–	–	–	–	–	0.929	3.990	3.990
Uranium, Total	mg/kg	Normal	21	21	1.86	50.6	–	–	24.879	30.562	45.416	–	–	–	–	–	30.562
Uranium–234	pci/g	LogNormal	21	21	2.73	16.3	–	–	–	–	–	6.923	8.658	13.941	–	–	8.658
Uranium–235/236	pci/g	LogNormal	21	21	0.149	0.887	–	–	–	–	–	0.336	0.419	0.673	–	–	0.419
Uranium–238	pci/g	LogNormal	21	21	2.87	16.6	–	–	–	–	–	7.489	9.311	14.894	–	–	9.311
SF – Source Material																	
Aroclor–1254	ug/kg	Undefined	67	19	32	740	39	210	82.000	–	–	–	–	–	32.000	430.000	430.000
Aroclor–1260	ug/kg	Undefined	67	3	38	89	37	1800	62.925	–	–	–	–	–	38.000	38.000	38.000
Arsenic	mg/kg	Normal	67	67	1.5	14.1	–	–	6.396	6.921	9.939	–	–	–	–	–	6.921
Benzo(a)anthracene	ug/kg	Undefined	61	21	44	5500	360	500	330.721	–	–	–	–	–	44.000	630.000	630.000
Benzo(a)pyrene	ug/kg	Undefined	60	20	3	9400	360	500	452.017	–	–	–	–	–	3.000	800.000	800.000
Benzo(b)fluoranthene	ug/kg	Undefined	60	20	42	6200	360	500	386.350	–	–	–	–	–	42.000	700.000	700.000
Benzo(k)fluoranthene	ug/kg	Undefined	60	18	48	7300	360	500	391.650	–	–	–	–	–	48.000	710.000	710.000
Beryllium	mg/kg	Undefined	67	57	0.46	2.2	0.39	1.7	0.773	–	–	–	–	–	0.820	1.500	1.500
Cesium–137	pci/g	Undefined	84	28	0.07	0.836	0.073	0.651	0.183	–	–	–	–	–	0.070	0.691	0.691
Dibenzo(a,h)anthracene	ug/kg	Undefined	60	8	43	1900	360	500	244.550	–	–	–	–	–	43.000	230.000	230.000
Dieldrin	ug/kg	Undefined	67	2	9.7	16	3.7	180	6.462	–	–	–	–	–	9.700	9.700	9.700
Indeno(1,2,3–cd)pyrene	ug/kg	Undefined	60	14	42	6000	360	500	343.100	–	–	–	–	–	42.000	520.000	520.000
Neptunium–237	pci/g	Undefined	74	35	0.032	0.553	0.03	0.6	0.225	–	–	–	–	–	0.076	0.369	0.369
Radium–226	pci/g	Undefined	86	82	0.81	31.2	0.3	1.2	2.687	–	–	–	–	–	1.330	9.210	9.210
Radium–228	pci/g	Undefined	85	84	0.73	675	0.54	0.54	9.412	–	–	–	–	–	1.260	3.380	3.380
Strontium–90	pci/g	Undefined	81	23	0.16	2.39	0.21	0.744	0.427234	–	–	–	–	–	0.16	1.28	1.28
Technetium–99	pci/g	Undefined	59	3	0.9	142	0.31	0.9	2.638	–	–	–	–	–	0.900	0.900	0.900
Thorium–228	pci/g	Undefined	82	82	0.658	595	–	–	8.865	–	–	–	–	–	1.120	4.410	4.410
Thorium–230	pci/g	Undefined	82	82	0.117	57.3	–	–	4.212	–	–	–	–	–	2.010	12.100	12.100
Thorium–232	pci/g	Undefined	82	81	0.19	600	0.6	0.6	8.752	–	–	–	–	–	1.030	3.440	3.440
Uranium, Total	mg/kg	Undefined	87	85	1.8	1170	4.5	34	60.054	–	–	–	–	–	20.600	230.000	230.000

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TABLE A.5–1 (Continued)
STATISTICAL SUMMARY FOR SOIL/WASTE
SOUTH FIELD

Analyte	Units	Distribution	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N	95%(N	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
Uranium–234	pci/g	Undefined	91	91	0.79	378	–	–	16.893	–	–	–	–	–	5.050	75.700	75.700
Uranium–235/236	pci/g	Undefined	91	66	0.03	20.6	0.6	0.6	1.112	–	–	–	–	–	0.285	3.770	3.770
Uranium–238	pci/g	Undefined	91	91	0.859	397	–	–	18.362	–	–	–	–	–	6.210	78.800	78.800
SF – Fill Material																	
Aroclor–1254	ug/kg	Undefined	61	18	32	740	39	210	87.713	–	–	–	–	–	32.000	430.000	430.000
Aroclor–1260	ug/kg	Undefined	61	3	38	89	37	1800	67.098	–	–	–	–	–	38.000	38.000	38.000
Arsenic	mg/kg	Normal	61	61	2.8	14.1	–	–	6.479	6.975	9.666	–	–	–	–	–	6.975
Benzo(a)anthracene	ug/kg	Undefined	55	21	44	5500	360	500	344.618	–	–	–	–	–	44.000	1100.000	1100.000
Benzo(a)pyrene	ug/kg	Undefined	54	20	3	9400	360	500	479.648	–	–	–	–	–	3.000	1800.000	1800.000
Benzo(b)fluoranthene	ug/kg	Undefined	54	20	42	6200	360	500	406.685	–	–	–	–	–	42.000	1600.000	1600.000
Benzo(k)fluoranthene	ug/kg	Undefined	54	18	48	7300	360	500	412.574	–	–	–	–	–	48.000	1600.000	1600.000
Beryllium	mg/kg	LogNormal	61	54	0.46	2.2	0.44	1.2	–	–	–	0.794	0.880	1.476	–	–	0.880
Cesium–137	pci/g	Undefined	60	28	0.07	0.836	0.073	0.651	0.221	–	–	–	–	–	0.116	0.692	0.692
Dibenzo(a,h)anthracene	ug/kg	Undefined	54	8	43	1900	360	500	249.130	–	–	–	–	–	43.000	440.000	440.000
Dieldrin	ug/kg	Undefined	61	2	9.7	16	3.7	180	6.896	–	–	–	–	–	9.700	9.700	9.700
Indeno(1,2,3–cd)pyrene	ug/kg	Undefined	54	14	42	6000	360	500	358.630	–	–	–	–	–	42.000	620.000	620.000
Neptunium–237	pci/g	Undefined	51	30	0.032	0.483	0.03	0.6	0.202	–	–	–	–	–	0.116	0.369	0.369
Radium–226	pci/g	Undefined	62	59	0.874	31.2	0.304	1.2	3.000	–	–	–	–	–	1.300	9.210	9.210
Radium–228	pci/g	Undefined	61	61	0.73	675	–	–	12.617	–	–	–	–	–	1.180	3.740	3.740
Strontium–90	pci/g	Undefined	58	15	0.16	2.39	0.21	0.744	0.416043	–	–	–	–	–	1.36	1.36	1.36
Technetium–99	pci/g	Undefined	50	2	0.9	142	0.31	0.9	3.054	–	–	–	–	–	0.900	0.900	0.900
Thorium–228	pci/g	Undefined	57	57	0.658	595	–	–	12.187	–	–	–	–	–	1.050	13.400	13.400
Thorium–230	pci/g	Undefined	57	57	0.117	51.6	–	–	4.253	–	–	–	–	–	2.330	13.800	13.800
Thorium–232	pci/g	Undefined	57	56	0.19	600	0.6	0.6	12.071	–	–	–	–	–	0.969	12.900	12.900
Uranium, Total	mg/kg	Undefined	63	62	1.86	1170	34	34	71.929	–	–	–	–	–	28.400	297.000	297.000
Uranium–234	pci/g	Undefined	65	65	1.06	378	–	–	19.747	–	–	–	–	–	7.480	78.300	78.300
Uranium–235/236	pci/g	Undefined	65	55	0.03	20.6	0.6	0.6	1.314	–	–	–	–	–	0.346	4.050	4.050
Uranium–238	pci/g	Undefined	65	65	1.03	397	–	–	21.573	–	–	–	–	–	8.090	82.700	82.700
SF – Impacted Till																	
Aroclor–1254	ug/kg	Undefined	6	1	41	41	40	42	23.917	–	–	–	–	–	41.000	41.000	41.000
Aroclor–1260	ug/kg	Undefined	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Arsenic	mg/kg	Undefined	6	6	1.5	11.9	–	–	5.550	–	–	–	–	–	11.900	11.900	11.900
Benzo(a)anthracene	ug/kg	Undefined	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzo(a)pyrene	ug/kg	Undefined	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzo(b)fluoranthene	ug/kg	Undefined	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzo(k)fluoranthene	ug/kg	Undefined	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Beryllium	mg/kg	Undefined	6	3	0.49	0.85	0.39	1.7	0.576	–	–	–	–	–	0.850	0.850	0.850
Cesium–137	pci/g	Undefined	24	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Dibenzo(a,h)anthracene	ug/kg	Undefined	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Dieldrin	ug/kg	Undefined	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Indeno(1,2,3–cd)pyrene	ug/kg	Indefined	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Neptunium–237	pci/g	Undefined	23	5	0.034	0.553	0.0315	0.6	0.277	–	–	–	–	–	0.034	0.291	0.291
Radium–226	pci/g	Undefined	24	23	0.81	15.7	0.3	0.3	1.877	–	–	–	–	–	1.440	1.990	1.990
Radium–228	pci/g	Normal	24	23	0.734	2.46	0.54	0.54	1.266	1.444	1.961	–	–	–	–	–	1.444
Strontium–90	pci/g	Undefined	23	8	0.5	1.57	0.4	0.5	0.455456	–	–	–	–	–	0.5	1.1	1.1
Technetium–99	pci/g	Undefined	9	1	0.9	0.9	0.331	0.9	0.326	–	–	–	–	–	0.900	0.900	0.900
Thorium–228	pci/g	LogNormal	25	25	0.67	2.63	–	–	–	–	–	1.290	1.426	1.949	–	–	1.426

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TABLE A.5–1 (Continued)
STATISTICAL SUMMARY FOR SOIL/WASTE
SOUTH FIELD

Analyte	Units	Distribution	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N	95%(N	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
Thorium–230	pci/g	Undefined	25	25	0.83	57.3	–	–	4.119	–	–	–	–	–	2.060	4.410	4.410
Thorium–232	pci/g	LogNormal	25	25	0.6	3.44	–	–	–	–	–	1.177	1.332	1.914	–	–	1.332
Uranium, Total	mg/kg	Undefined	24	23	1.8	230	4.5	4.5	28.883	–	–	–	–	–	11.600	189.000	189.000
Uranium–234	pci/g	LogNormal	26	26	0.79	75.7	–	–	–	–	–	8.061	17.205	29.422	–	–	17.205
Uranium–235/236	pci/g	Undefined	26	11	0.063	3.77	0.6	0.6	0.608	–	–	–	–	–	0.075	2.730	2.730
Uranium–238	pci/g	LogNormal	26	26	0.859	78.8	–	–	–	–	–	8.563	17.888	31.007	–	–	17.888
SF – Other Till																	
Aroclor–1254	ug/kg	Undefined	9	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Aroclor–1260	ug/kg	Undefined	9	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Arsenic	mg/kg	LogNormal	10	10	4	9.4	–	–	–	–	–	6.584	7.640	9.405	–	–	7.640
Benzo(a)anthracene	ug/kg	Undefined	10	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzo(a)pyrene	ug/kg	Undefined	10	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzo(b)fluoranthene	ug/kg	Undefined	10	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzo(k)fluoranthene	ug/kg	Undefined	10	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Beryllium	mg/kg	LogNormal	10	7	0.53	1	1.2	1.6	–	–	–	0.696	0.779	0.923	–	–	0.779
Cesium–137	pci/g	Undefined	10	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Dibenzo(a,h)anthracene	ug/kg	Undefined	10	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Dieldrin	ug/kg	Undefined	9	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Indeno(1,2,3–cd)pyrene	ug/kg	Undefined	10	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Neptunium–237	pci/g	LogNormal	10	8	0.034	6.53	0.6	0.6	–	–	–	0.586	5.696	2.261	–	–	5.696
Radium–226	pci/g	Normal	12	11	0.6	1.26	0.3	0.3	0.876	1.057	1.345	–	–	–	–	–	1.057
Radium–228	pci/g	Normal	12	11	0.5	1.41	0.5	0.5	0.834	1.022	1.320	–	–	–	–	–	1.022
Strontium–90	pci/g	Normal	11	8	0.537	1.78	0.371	0.586	0.710409	0.95	1.44	–	–	–	–	–	0.95
Technetium–99	pci/g	Undefined	10	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium–228	pci/g	Undefined	7	5	0.524	0.875	0.5	0.6	0.586	–	–	–	–	–	0.875	0.875	0.875
Thorium–230	pci/g	Normal	7	7	0.8	1.1	–	–	0.987	1.094	1.177	–	–	–	–	–	1.094
Thorium–232	pci/g	Undefined	7	5	0.548	0.792	0.6	0.6	0.573	–	–	–	–	–	0.792	0.792	0.792
Uranium, Total	mg/kg	LogNormal	10	9	3.47	17.5	2.77	2.77	–	–	–	8.583	16.794	22.488	–	–	16.794
Uranium–234	pci/g	Undefined	12	11	0.6	3.51	0.6	0.6	1.140	–	–	–	–	–	0.977	3.510	3.510
Uranium–235/236	pci/g	LogNormal	12	10	0.020	0.153	0.6	0.6	–	–	–	0.100	0.219	0.300	–	–	0.219
Uranium–238	pci/g	Undefined	12	11	0.385	4.55	0.6	0.6	1.263	–	–	–	–	–	1.040	4.550	4.550
SF – Till Outside Battery Limits *																	
Cesium–137	pci/g	Undefined	1	1	0.2	0.2	–	–	0.200	–	–	–	–	–	0.200	0.200	0.200
Neptunium–237	pci/g	Undefined	4	3	0.6	0.6	0.6	0.6	0.525	–	–	–	–	–	0.600	0.600	0.600
Radium–226	pci/g	Undefined	1	1	0.559	0.559	–	–	0.559	–	–	–	–	–	0.559	0.559	0.559
Radium–228	pci/g	Undefined	1	1	0.5	0.5	–	–	0.500	–	–	–	–	–	0.500	0.500	0.500
Strontium–90	pci/g	Undefined	4	4	0.5	1.34	–	–	0.71	–	–	–	–	–	1.34	1.34	1.34
Technetium–99	pci/g	Undefined	4	3	0.9	0.9	0.9	0.9	0.788	–	–	–	–	–	0.900	0.900	0.900
Thorium–228	pci/g	Undefined	4	4	0.6	1.23	–	–	0.891	–	–	–	–	–	1.230	1.230	1.230
Thorium–230	pci/g	Undefined	4	4	0.736	5.59	–	–	2.267	–	–	–	–	–	5.590	5.590	5.590
Thorium–232	pci/g	Undefined	4	4	0.6	1.11	–	–	0.748	–	–	–	–	–	1.110	1.110	1.110
Uranium, Total	mg/kg	Undefined	1	1	2.95	2.95	–	–	2.950	–	–	–	–	–	2.950	2.950	2.950
Uranium–234	pci/g	Undefined	4	4	0.981	4.64	–	–	1.978	–	–	–	–	–	4.640	4.640	4.640
Uranium–235/236	pci/g	Undefined	4	3	0.6	0.6	0.6	0.6	0.525	–	–	–	–	–	0.600	0.600	0.600
Uranium–238	pci/g	Undefined	4	4	0.736	7			2.607	–	–	–	–	–	7.000	7.000	7.000

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TABLE A.5–1 (Continued)
STATISTICAL SUMMARY FOR SOIL/WASTE
SOUTH FIELD

Analyte	Units	Distribution	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N	95%(N	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
SF – GMA Soil Inside Battery Limits																	
Aroclor–1254	ug/kg	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Aroclor–1260	ug/kg	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Arsenic	mg/kg	Undefined	2	2	4.1	6.2	–	–	5.150	–	–	–	–	–	6.200	6.200	6.200
Benzo(a)anthracene	ug/kg	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzo(a)pyrene	ug/kg	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzo(b)fluoranthene	ug/kg	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzo(k)fluoranthene	ug/kg	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Beryllium	mg/kg	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Cesium–137	pci/g	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Dibenzo(a,h)anthracene	ug/kg	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Dieldrin	ug/kg	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Indeno(1,2,3–cd)pyrene	ug/kg	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Neptunium–237	pci/g	Undefined	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium–226	pci/g	Undefined	2	2	0.6	0.676	–	–	0.638	–	–	–	–	–	0.676	0.676	0.676
Radium–228	pci/g	Undefined	2	2	0.44	0.461	–	–	0.450	–	–	–	–	–	0.461	0.461	0.461
Strontium–90	pci/g	Undefined	3	1	0.7	0.7	0.385	0.48	0.3775	–	–	–	–	–	0.7	0.7	0.7
Technetium–99	pci/g	Undefined	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium–228	pci/g	Undefined	2	1	0.33	0.33	0.6	0.6	0.315	–	–	–	–	–	0.330	0.330	0.330
Thorium–230	pci/g	Undefined	2	2	0.9	1.37	–	–	1.135	–	–	–	–	–	1.370	1.370	1.370
Thorium–232	pci/g	Undefined	2	1	0.33	0.33	0.6	0.6	0.315	–	–	–	–	–	0.330	0.330	0.330
Uranium, Total	mg/kg	Undefined	2	2	9.81	10.3	–	–	10.055	–	–	–	–	–	10.300	10.300	10.300
Uranium–234	pci/g	Undefined	3	2	0.57	0.585	0.6	0.6	0.485	–	–	–	–	–	0.585	0.585	0.585
Uranium–235/236	pci/g	Undefined	3	2	0.02	0.02	0.6	0.6	0.113	–	–	–	–	–	0.020	0.020	0.020
Uranium–238	pci/g	Undefined	3	2	0.588	0.66	0.6	0.6	0.516	–	–	–	–	–	0.660	0.660	0.660
SF – GMA Soil Outside Battery Limits *																	
Cesium–137	pci/g	Undefined	23	17	0.2	0.2	0.2	0.2	0.174	–	–	–	–	–	0.200	0.200	0.200
Neptunium–237	pci/g	Undefined	50	38	0.6	0.6	0.6	0.6	0.528	–	–	–	–	–	0.600	0.600	0.600
Radium–226	pci/g	LogNormal	23	22	0.39	0.862	0.5	0.5	–	–	–	0.511	0.559	0.732	–	–	0.559
Radium–228	pci/g	Undefined	23	17	0.5	0.6	0.5	1.2	0.454	–	–	–	–	–	0.500	0.500	0.500
Strontium–90	pci/g	Undefined	48	38	0.5	1.22	0.5	0.5	0.474104	–	–	–	–	–	0.50	0.70	0.70
Technetium–99	pci/g	Undefined	50	38	0.9	0.9	0.9	0.9	0.792	–	–	–	–	–	0.900	0.900	0.900
Thorium–228	pci/g	Undefined	50	41	0.6	5.92	0.6	0.6	0.713	–	–	–	–	–	0.600	1.530	1.530
Thorium–230	pci/g	Undefined	50	48	0.6	3.07	0.6	0.6	0.956	–	–	–	–	–	0.921	2.020	2.020
Thorium–232	pci/g	Undefined	50	39	0.6	5.59	0.6	0.6	0.634	–	–	–	–	–	0.600	0.600	0.600
Uranium, Total	mg/kg	Undefined	23	19	1.17	9.42	1.8	12	2.924	–	–	–	–	–	1.850	6.660	6.660
Uranium–234	pci/g	Undefined	40	39	0.6	2.64	0.6	0.6	1.049	–	–	–	–	–	1.200	2.290	2.290
Uranium–235/236	pci/g	Undefined	40	38	0.6	1.2	0.6	0.6	0.600	–	–	–	–	–	0.600	0.600	0.600
Uranium–238	pci/g	Undefined	40	39	0.6	2.84	0.6	0.6	1.114	–	–	–	–	–	1.050	2.720	2.720
SF – Sediment *																	
Aroclor–1254	ug/kg	Undefined	3	1	96	96	52	61	50.833	–	–	–	–	–	96	96	96
Aroclor–1260	ug/kg	Undefined	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Arsenic	mg/kg	Undefined	3	3	7.7	75.6	–	–	30.433	–	–	–	–	–	75.6	75.6	75.6
Benzo(a)anthracene	ug/kg	Undefined	3	1	66	66	510	610	208.667	–	–	–	–	–	66	66	66
Benzo(a)pyrene	ug/kg	Undefined	2	1	110	110	610	610	207.500	–	–	–	–	–	110	110	110
Benzo(b)fluoranthene	ug/kg	Undefined	2	1	110	110	610	610	207.500	–	–	–	–	–	110	110	110
Benzo(k)fluoranthene	ug/kg	Undefined	2	2	74	120	–	–	97.000	–	–	–	–	–	120	120	120

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TABLE A.5-1 (Continued)
STATISTICAL SUMMARY FOR SOIL/WASTE
SOUTH FIELD

Analyte	Units	Distribution	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N	95%(N	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
Beryllium	mg/kg	Undefined	3	2	1.1	4.6	0.46	0.46	1.977	–	–	–	–	–	4.6	4.6	4.6
Dibenzo(a,h)anthracene	ug/kg	Undefined	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Dieldrin	ug/kg	Undefined	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Indeno(1,2,3-cd)pyrene	ug/kg	Undefined	2	1	99	99	610	610	202.000	–	–	–	–	–	99	99	99
Strontium-90	pcl/g	Undefined	3	2	0.546	1.01	0.43	0.43	0.590333	–	–	–	–	–	1.01	1.01	1.01

* COCs not listed have no data available for this media classification

TABLE A.5–2
STATISTICAL SUMMARY FOR PERCHED GROUNDWATER
SOUTH FIELD

Analyte	Filtered?	Distribution	Units	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N	95%(N	Est. Mean	UCL(L	95%(L)	UCL(M)	95%(NP)	Conc. Term
SF – Perched Groundwater, Inside Battery Limits																		
Aroclor–1254	Unfiltered	Undefined	ug/l	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Aroclor–1260	Unfiltered	Undefined	ug/l	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Arsenic	Unfiltered	Undefined	mg/l	7	3	0.005	0.010	0.001	0.002	0.003	–	–	–	–	–	0.010	0.010	0.010
Arsenic	Filtered	Undefined	mg/l	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzo(a)anthracene	Unfiltered	Undefined	ug/l	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzo(a)pyrene	Unfiltered	Undefined	ug/l	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzo(b)fluoranthene	Unfiltered	Undefined	ug/l	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzo(k)fluoranthene	Unfiltered	Undefined	ug/l	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Beryllium	Unfiltered	Undefined	mg/l	7	1	0.004	0.004	0.001	0.002	0.001	–	–	–	–	–	0.004	0.004	0.004
Beryllium	Filtered	Undefined	mg/l	2	0	–	–	0.002	0.002	–	–	–	–	–	–	–	–	–
Cesium–137	Unfiltered	Undefined	pci/l	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Cesium–137	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Dibenzo(a,h)anthracene	Unfiltered	Undefined	ug/l	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Dieldrin	Unfiltered	Undefined	ug/l	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Indeno(1,2,3–cd)pyrene	Unfiltered	Undefined	ug/l	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Neptunium–237	Unfiltered	Undefined	pci/l	9	3	0.395	0.48	0.177	1	0.392	–	–	–	–	–	–	0.48	0.48
Neptunium–237	Filtered	Undefined	pci/l	1	0	–	–	0.11	0.11	–	–	–	–	–	–	–	–	–
Radium–226	Filtered	Undefined	pci/l	1	1	0.119	0.119			0.119	–	–	–	–	–	0.119	0.119	0.119
Radium–226	Unfiltered	Undefined	pci/l	9	3	0.17	1.46	0.128	1	0.510	–	–	–	–	–	1.46	1.05	1.460
Radium–228	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium–228	Unfiltered	Undefined	pci/l	10	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Strontium–90	Unfiltered	Undefined	pci/l	12	2	3.05	3.31	0.598	10.8	1.9894	–	–	–	–	–	3.05	3.31	3.31
Strontium–90	Filtered	Undefined	pci/l	1	0	–	–	0.808	0.808	–	–	–	–	–	–	–	–	–
Technetium–99	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Technetium–99	Unfiltered	Undefined	pci/l	13	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium–228	Filtered	Underfined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium–228	Unfiltered	Undefined	pci/l	12	5	1.1	3.87	0.025	1	0.960	–	–	–	–	–	1.47	3.87	3.87
Thorium–230	Unfiltered	LogNormal	pci/l	12	8	0.22	6.8	0.32	1	–	–	–	1.420	4.320	4.860	–	–	4.320
Thorium–230	Filtered	Undefined	pci/l	1	1	0.315	0.315			0.315	–	–	–	–	–	0.315	0.315	0.315
Thorium–232	Filtered	Underfined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium–232	Unfiltered	Undefined	pci/l	11	4	0.37	3.75	0.02	1	0.810	–	–	–	–	–	0.938	3.75	3.75
Uranium, Total	Filtered	Undefined	ug/l	1	1	64.5	64.5			64.500	–	–	–	–	–	64.5	64.5	64.5
Uranium, Total	Unfiltered	Undefined	ug/l	13	13	6	3969			730.320	–	–	–	–	–	547.000	3969	3969
Uranium–234	Filtered	Undefined	pci/l	1	1	27.9	27.9			27.900	–	–	–	–	–	27.9	27.9	27.9
Uranium–234	Unfiltered	Undefined	pci/l	13	13	2	1530			236.930	–	–	–	–	–	216	1530	1530
Uranium–235/236	Unfiltered	Normal	pci/l	12	8	0.479	31.9	1	1	6.690	11.550	22.129	–	–	–	–	–	11.550
Uranium–235/236	Filtered	Undefined	pci/l	1	1	1.72	1.72			1.720	–	–	–	–	–	1.72	1.72	1.72
Uranium–238	Unfiltered	Undefined	pci/l	13	13	1.9	1537			240.990	–	–	–	–	–	220	1537	1537
Uranium–238	Filtered	Undefined	pci/l	1	1	29.5	29.5			29.500	–	–	–	–	–	29.5	29.5	29.5
SF – Perched Groundwater, Outside Battery Limits																		
Aroclor–1254	Unfiltered	Undefined	ug/l	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Aroclor–1260	Unfiltered	Undefined	ug/l	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Arsenic	Unfiltered	Undefined	mg/l	3	2	0.007	0.008	0.001	0.001	0.005	–	–	–	–	–	0.008	0.008	0.008
Arsenic	Filtered	Undefined	mg/l	5	0	–	–	0.001	0.2	–	–	–	–	–	–	–	–	–
Benzo(a)anthracene	Unfiltered	Undefined	ug/l	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzo(a)pyrene	Unfiltered	Undefined	ug/l	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzo(b)fluoranthene	Unfiltered	Undefined	ug/l	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–

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TABLE A.5–2 (Continued)
STATISTICAL SUMMARY FOR PERCHED GROUNDWATER
SOUTH FIELD

Analyte	Filtered?	Distribution	Units	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N	95%(N	Est. Mean	UCL(L	95%(L)	UCL(M)	95%(NP)	Conc. Term
Benzo(k)fluoranthene	Unfiltered	Undefined	ug/l	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Beryllium	Unfiltered	Undefined	mg/l	3	2	0.006	0.010	0.001	0.001	0.005	–	–	–	–	–	0.010	0.010	0.010
Beryllium	Filtered	Undefined	mg/l	3	0	–	–	0.001	0.002	–	–	–	–	–	–	–	–	–
Cesium–137	Unfiltered	Undefined	pci/l	4	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Cesium–137	Filtered	Undefined	pci/l	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Dibenzo(a,h)anthracene	Unfiltered	Undefined	ug/l	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Dieldrin	Unfiltered	Undefined	ug/l	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Indeno(1,2,3–cd)pyrene	Unfiltered	Undefined	ug/l	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Neptunium–237	Unfiltered	Undefined	pci/l	6	3	0.22	1.2	0.265	3.1	0.650	–	–	–	–	–	1.2	1.2	1.200
Neptunium–237	Filtered	Undefined	pci/l	2	1	0.59	0.59	0.47	0.47	0.413	–	–	–	–	–	0.59	0.59	0.59
Radium–226	Unfiltered	Undefined	pci/l	4	1	1.36	1.36	0.09	1	0.493	–	–	–	–	–	1.36	1.36	1.360
Radium–226	Filtered	Undefined	pci/l	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium–228	Unfiltered	Undefined	pci/l	4	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium–228	Filtered	Undefined	pci/l	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Strontium–90	Unfiltered	Undefined	pci/l	6	0	–	–	0.5	5	–	–	–	–	–	–	–	–	–
Strontium–90	Filtered	Undefined	pci/l	2	1	1.33	1.33	0.753	0.753	0.8533	–	–	–	–	–	1.33	1.33	1.33
Technetium–99	Unfiltered	Undefined	pci/l	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Technetium–99	Filtered	Undefined	pci/l	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium–228	Unfiltered	Undefined	pci/l	6	3	1.04	9.87	0.17	1	2.150	–	–	–	–	–	9.87	9.87	9.870
Thorium–228	Filtered	Undefined	pci/l	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium–230	Unfiltered	Undefined	pci/l	6	3	0.11	11.2	0.36	1	2.230	–	–	–	–	–	11.2	11.2	11.200
Thorium–230	Filtered	Undefined	pci/l	2	1	2.36	2.36	0.18	0.18	1.225	–	–	–	–	–	2.36	2.36	2.36
Thorium–232	Filtered	Undefined	pci/l	2	1	0.216	0.216	0.07	0.07	0.126	–	–	–	–	–	0.216	0.216	0.216
Thorium–232	Unfiltered	Undefined	pci/l	5	2	1.2	8.56	0.1	1	2.074	–	–	–	–	–	8.56	8.56	8.560
Uranium, Total	Unfiltered	Normal	ug/l	7	7	1	22.6			6.720	12.859	20.460	–	–	–	–	–	12.859
Uranium, Total	Filtered	Undefined	ug/l	2	2	4.33	6.14			5.235	–	–	–	–	–	6.14	6.14	6.14
Uranium–234	Filtered	Undefined	pci/l	2	2	1.72	2.62			2.170	–	–	–	–	–	2.62	2.62	2.62
Uranium–234	Unfiltered	Undefined	pci/l	7	5	0.54	20.3	1	1	5.580	–	–	–	–	–	20.3	20.3	20.300
Uranium–235/236	Unfiltered	Undefined	pci/l	7	2	0.303	0.34	0.0275	1	0.250	–	–	–	–	–	0.34	0.34	0.340
Uranium–235/236	Filtered	Undefined	pci/l	2	1	0.12	0.12	0.139	0.139	0.095	–	–	–	–	–	0.12	0.12	0.12
Uranium–238	Unfiltered	Undefined	pci/l	7	5	0.47	8.87	1	1	2.720	–	–	–	–	–	8.87	8.87	8.870
Uranium–238	Filtered	Undefined	pci/l	2	2	1.43	2.43			1.930	–	–	–	–	–	2.43	2.43	2.43

000383

TABLE A.5-3

SAMPLE LIST - SURFACE SOIL
SOUTH FIELD

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
110287	18-MAR-93	SF-SS-18	0.0	0.5	1379296.30	477833.82	1347827.39	477863.18
110290	19-MAR-93	SF-SS-20	0.0	0.5	1379157.79	477937.76	1347688.87	477967.12
110297	18-MAR-93	SF-SS-17	0.0	0.5	1379436.77	477910.81	1347967.85	477940.17
110304	19-MAR-93	1977	0.0	0.5	1379322.50	477826.80	1347853.53	477856.15
110307	18-MAR-93	SF-SS-21	0.0	0.5	1379171.75	478123.72	1347702.83	478153.08
110317	19-MAR-93	SF-SS-10	0.0	0.5			1348118.99	478039.60
110321	19-MAR-93	SF-SS-11	0.0	0.5			1348161.33	477934.37
110324	22-MAR-93	1971	0.0	0.5	1379566.04	477709.01	1348097.07	477738.37
110331	22-MAR-93	1964	0.0	0.5	1379418.28	477418.89	1347949.31	477448.24
110335	22-MAR-93	1978	0.0	0.5	1379639.05	477395.02	1348170.08	477424.37
110338	22-MAR-93	1969	0.0	0.5	1379700.05	477633.01	1348231.08	477662.37
110340	22-MAR-93	11188	0.0	0.5	1379479.87	477843.64	1348010.95	477873.00
110343	22-MAR-93	SF-SS-16	0.0	0.5	1379481.01	477735.65	1348012.10	477765.01
110351	22-MAR-93	1965	0.0	0.5	1379474.61	477347.01	1348005.64	477376.36
110355	22-MAR-93	1966	0.0	0.5	1379500.34	477240.00	1348031.37	477269.35
110358	22-MAR-93	1967	0.0	0.5	1379393.85	477293.90	1347924.88	477323.25
110365	22-MAR-93	SF-SS-19	0.0	0.5	1379322.29	478035.93	1347853.37	478065.29
110372	22-MAR-92	1970	0.0	0.5	1379444.79	477613.30	1347975.82	477642.65
110378	19-MAR-93	1972	0.0	0.5	1379491.36	477958.00	1348022.38	477987.36
110385	22-MAR-93	1975	0.0	0.5	1379784.06	477869.01	1348315.08	477898.37
110392	22-MAR-93	1968	0.0	0.5	1379590.55	477364.98	1348121.58	477394.33

TABLE A.5-4

SAMPLE LIST - FILL
SOUTH FIELD

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
005001	28-AUG-87	ZONE 3	0.0	2.0	1380000.00	478000.00		
047019	29-JUL-92	1433	2.0	5.0	1379116.16	477991.53	1347647.18	478020.87
055900	04-NOV-89	1455	0.0	3.0	1379479.00	477915.00	1348010.02	477944.35
055902	04-NOV-89	1456	0.0	3.8	1379479.00	477940.00	1348010.02	477969.35
055906	05-NOV-89	1456	3.8	3.8	1379479.00	477940.00	1348010.02	477969.35
055913	06-NOV-89	1458	3.8	3.9	1379631.00	477880.00	1348162.02	477909.35
055915	06-NOV-89	1459	5.0	5.1	1379631.00	477905.00	1348162.02	477934.35
055917	06-NOV-89	1460	3.5	3.6	1379631.00	477930.00	1348162.01	477959.35
055926	07-NOV-89	1461	4.0	4.2	1379784.00	477842.00	1348315.02	477871.35
055928	07-NOV-89	1462	4.0	4.2	1379784.00	477867.00	1348315.02	477896.35
055930	07-NOV-89	1463	3.5	3.7	1379784.00	477892.00	1348315.01	477921.35
055932	07-NOV-89	1462	4.0	4.0	1379784.00	477867.00	1348315.02	477896.35
055939	08-NOV-89	1464	3.8	4.0	1379566.00	477734.00	1348097.02	477763.35
055941	08-NOV-89	1465	0.0	3.5	1379566.00	477709.00	1348097.02	477738.35
055943	08-NOV-89	1466	0.0	3.0	1379566.00	477684.00	1348097.02	477713.35
055945	08-NOV-89	1465	3.5	3.5	1379566.00	477709.00	1348097.02	477738.35
055952	14-NOV-89	1467	0.0	2.5	1379700.00	477658.00	1348231.02	477687.35
055954	14-NOV-89	1468	0.0	2.5	1379700.00	477633.00	1348231.02	477662.35
055956	14-NOV-89	1469	0.0	2.5	1379700.00	477608.00	1348231.02	477637.35
055959	14-NOV-89	1468	2.5	2.5	1379700.00	477633.00	1348231.02	477662.35
055966	15-NOV-89	1470	0.0	3.0	1379639.00	477370.00	1348170.02	477399.34
055968	16-NOV-89	1471	0.0	4.0	1379639.00	477395.00	1348170.02	477424.34
055970	16-NOV-89	1472	0.0	4.0	1379639.00	477420.00	1348170.02	477449.34
055972	16-NOV-89	1471	4.0	4.0	1379639.00	477395.00	1348170.02	477424.34
067324	13-AUG-91	1794	0.0	1.0	1379281.59	477954.24	1347812.61	477983.59
067328	13-AUG-91	1794	2.0	2.5	1379281.59	477954.24	1347812.61	477983.59
067333	15-AUG-91	1793	3.0	4.5	1379446.76	477464.98	1347977.78	477494.32
067343	21-AUG-91	1792	1.5	3.0	1379372.54	477280.15	1347903.56	477309.49
067346	21-AUG-91	1792	6.0	7.5	1379372.54	477280.15	1347903.56	477309.49
067350	21-AUG-91	1792	12.0	13.5	1379372.54	477280.15	1347903.56	477309.49
067353	22-AUG-91	1792	16.5	18.0	1379372.54	477280.15	1347903.56	477309.49
067356	22-AUG-91	1792	21.5	23.0	1379372.54	477280.15	1347903.56	477309.49
067367	23-AUG-91	1795	0.0	1.0	1379648.49	477941.43	1348179.50	477970.78
067370	23-AUG-91	1795	3.0	4.0	1379648.49	477941.43	1348179.50	477970.78

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TABLE A.5-4
(Continued)

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
110287	18-MAR-93	SF-SS-18	0.0	0.5	1379296.30	477833.82	1347827.39	477863.18
110290	19-MAR-93	SF-SS-20	0.0	0.5	1379157.79	477937.76	1347688.87	477967.12
110297	18-MAR-93	SF-SS-17	0.0	0.5	1379436.77	477910.81	1347967.85	477940.17
110304	19-MAR-93	1977	0.0	0.5	1379322.50	477826.80	1347853.53	477856.15
110307	18-MAR-93	SF-SS-21	0.0	0.5	1379171.75	478123.72	1347702.83	478153.08
110317	19-MAR-93	SF-SS-10	0.0	0.5			1348118.99	478039.60
110321	19-MAR-93	SF-SS-11	0.0	0.5			1348161.33	477934.37
110324	22-MAR-93	1971	0.0	0.5	1379566.04	477709.01	1348097.07	477738.37
110327	22-MAR-93	1971	0.5	1.0	1379566.04	477709.01	1348097.07	477738.37
110331	22-MAR-93	1964	0.0	0.5	1379418.28	477418.89	1347949.31	477448.24
110335	22-MAR-93	1978	0.0	0.5	1379639.05	477395.02	1348170.08	477424.37
110338	22-MAR-93	1969	0.0	0.5	1379700.05	477633.01	1348231.08	477662.37
110339	22-MAR-93	1969	0.5	1.0	1379700.05	477633.01	1348231.08	477662.37
110340	22-MAR-93	11188	0.0	0.5	1379479.87	477843.64	1348010.95	477873.00
110343	22-MAR-93	SF-SS-16	0.0	0.5	1379481.01	477735.65	1348012.10	477765.01
110351	22-MAR-93	1965	0.0	0.5	1379474.61	477347.01	1348005.64	477376.36
110355	22-MAR-93	1966	0.0	0.5	1379500.34	477240.00	1348031.37	477269.35
110358	22-MAR-93	1967	0.0	0.5	1379393.85	477293.90	1347924.88	477323.25
110362	22-MAR-93	1967	0.5	1.0	1379393.85	477293.90	1347924.88	477323.25
110365	22-MAR-93	SF-SS-19	0.0	0.5	1379322.29	478035.93	1347853.37	478065.29
110369	22-MAR-93	SF-SS-19	0.5	1.0	1379322.29	478035.93	1347853.37	478065.29
110372	22-MAR-92	1970	0.0	0.5	1379444.79	477613.30	1347975.82	477642.65
110378	19-MAR-93	1972	0.0	0.5	1379491.36	477958.00	1348022.38	477987.36
110382	19-MAR-93	1972	0.5	1.0	1379491.36	477958.00	1348022.38	477987.36
110385	22-MAR-93	1975	0.0	0.5	1379784.06	477869.01	1348315.08	477898.37
110389	22-MAR-93	1975	0.5	1.0	1379784.06	477869.01	1348315.08	477898.37
110392	22-MAR-93	1968	0.0	0.5	1379590.55	477364.98	1348121.58	477394.33
110396	22-MAR-93	1968	0.5	1.0	1379590.55	477364.98	1348121.58	477394.33
110405	24-MAR-93	1966	0.5	1.0	1379500.34	477240.00	1348031.37	477269.35
110406	24-MAR-93	1978	0.5	1.0	1379639.05	477395.02	1348170.08	477424.37
110413	24-MAR-93	11186	0.5	1.0	1379587.91	478010.24	1348118.99	478039.60
110415	24-MAR-93	11187	0.5	1.0	1379630.25	477905.01	1348161.33	477934.37
110547	02-APR-93	11188	4.5	6.0	1379479.87	477843.64	1348010.95	477873.00
110571	06-APR-93	1977	8.5	10.0	1379322.50	477826.80	1347853.53	477856.15
110584	08-APR-93	1972	2.5	4.0	1379491.36	477958.00	1348022.38	477987.36
112520	13-APR-93	11187	4.0	6.0	1379630.25	477905.01	1348161.33	477934.37

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TABLE A.5-4
(Continued)

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
112536	15-APR-93	1971	4.5	6.5	1379566.04	477709.01	1348097.07	477738.37
112648	17-APR-93	1964	5.0	6.5	1379418.28	477418.89	1347949.31	477448.24
112690	18-APR-93	1970	4.0	5.5	1379444.79	477613.30	1347975.82	477642.65
112696	18-APR-93	1967	4.5	7.5	1379393.85	477293.90	1347924.88	477323.25
112737	20-APR-93	1965	4.0	6.0	1379474.61	477347.01	1348005.64	477376.36
112835	20-APR-93	1968	4.5	6.5	1379590.55	477364.98	1348121.58	477394.33
112859	21-APR-93	1966	4.5	6.5	1379500.34	477240.00	1348031.37	477269.35
112893	18-APR-93	1970	9.0	10.5	1379444.79	477613.30	1347975.82	477642.65
113105	28-MAY-93	TRENCH 1	0.0	7.0				
113718	03-JUN-93	TRENCH 1	2.0	2.0				
113722	16-JUN-93	TRENCH 4	0.0	3.4				
113724	09-JUN-93	TRENCH 2						
113725	09-JUN-93	TRENCH 2						

000287

TABLE A.5-5

SAMPLE LIST - IMPACTED TILL
SOUTH FIELD

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
008014	06-FEB-88	1046	0.0	1.5	1379428.51	478054.76	1347959.53	478084.12
055901	04-NOV-89	1455	0.0	3.8	1379479.00	477915.00	1348010.02	477944.35
055903	04-NOV-89	1456	0.0	4.3	1379479.00	477940.00	1348010.02	477969.35
055904	04-NOV-89	1457	0.0	3.8	1379479.00	477965.00	1348010.02	477994.35
055905	04-NOV-89	1457	4.3	4.5	1379479.00	477965.00	1348010.02	477994.35
055914	06-NOV-89	1458	4.5	4.6	1379631.00	477880.00	1348162.02	477909.35
055916	06-NOV-89	1459	5.8	5.9	1379631.00	477905.00	1348162.02	477934.35
055918	06-NOV-89	1460	4.3	4.5	1379631.00	477930.00	1348162.01	477959.35
055927	07-NOV-89	1461	5.0	5.2	1379784.00	477842.00	1348315.02	477871.35
055929	07-NOV-89	1462	5.0	5.2	1379784.00	477867.00	1348315.02	477896.35
055931	07-NOV-89	1463	4.5	4.7	1379784.00	477892.00	1348315.01	477921.35
055940	08-NOV-89	1464	0.0	4.5	1379566.00	477734.00	1348097.02	477763.35
055942	08-NOV-89	1465	0.0	4.5	1379566.00	477709.00	1348097.02	477738.35
055944	08-NOV-89	1466	0.0	4.5	1379566.00	477684.00	1348097.02	477713.35
055953	14-NOV-89	1467	0.0	3.5	1379700.00	477658.00	1348231.02	477687.35
055955	14-NOV-89	1468	0.0	3.5	1379700.00	477633.00	1348231.02	477662.35
055957	14-NOV-89	1469	0.0	3.5	1379700.00	477608.00	1348231.02	477637.35
055967	15-NOV-89	1470	0.0	4.0	1379639.00	477370.00	1348170.02	477399.34
055969	16-NOV-89	1471	0.0	5.5	1379639.00	477395.00	1348170.02	477424.34
055971	16-NOV-89	1472	0.0	5.0	1379639.00	477420.00	1348170.02	477449.34
110579	07-APR-93	1977	16.5	18.5	1379322.50	477826.80	1347853.53	477856.15
112494	08-APR-93	1972	7.5	9.0	1379491.36	477958.00	1348022.38	477987.36
112507	12-APR-93	11186	4.5	6.5	1379587.91	478010.24	1348118.99	478039.60
112545	13-APR-93	1975	4.0	5.0	1379784.06	477869.01	1348315.08	477898.37
112559	15-APR-93	1969	4.5	6.0	1379700.05	477633.01	1348231.08	477662.37
112731	19-APR-93	1967	29.5	31.0	1379393.85	477293.90	1347924.88	477323.25

TABLE A.5-6

SAMPLE LIST - OTHER TILL
SOUTH FIELD

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting. 1927	Northing 1927	Easting 1983	Northing 1983
008024	08-FEB-88	1046	15.0	16.5	1379428.51	478054.76	1347959.53	478084.12
008025	08-FEB-88	1046	15.0	16.5	1379428.51	478054.76	1347959.53	478084.12
110556	02-APR-93	11188	10.0	11.0	1379479.87	477843.64	1348010.95	477873.00
112514	12-APR-93	11186	9.5	11.0	1379587.91	478010.24	1348118.99	478039.60
112526	13-APR-93	11187	9.0	10.5	1379630.25	477905.01	1348161.33	477934.37
112550	13-APR-93	1975	8.5	10.5	1379784.06	477869.01	1348315.08	477898.37
112563	15-APR-93	1969	9.0	10.5	1379700.05	477633.01	1348231.08	477662.37
112584	16-APR-93	1978	9.5	11.0	1379639.05	477395.02	1348170.08	477424.37
112588	16-APR-93	1978	13.5	15.0	1379639.05	477395.02	1348170.08	477424.37
112593	15-APR-93	1971	9.5	11.0	1379566.04	477709.01	1348097.07	477738.37
112849	20-APR-93	1968	15.5	16.5	1379590.55	477364.98	1348121.58	477394.33
112883	22-APR-93	1966	24.0	25.0	1379500.34	477240.00	1348031.37	477269.35

000289

6645

TABLE A.5-7

SAMPLE LIST - OTHER TILL
OUTSIDE BATTERY LIMITS
SOUTH FIELD

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
032622	20-APR-90	2385	4.5	6.0	1379923.25	477886.51	1348454.26	477915.86
055371	19-MAY-90	1516	0.0	0.5				
055413	20-MAY-90	1517	0.0	0.5				
055454	22-MAY-90	1518	0.0	0.5				

TABLE A.5-8

SAMPLE LIST - GMA SOIL
INSIDE BATTERY LIMITS
SOUTH FIELD

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
008950	14-DEC-88	2046	30.0	31.5	1379418.68	478058.45	1347949.69	478087.80
112685	17-APR-93	1964	29.0	30.5	1379418.28	477418.89	1347949.31	477448.24
112763	21-APR-93	1965	26.5	28.0	1379474.61	477347.01	1348005.64	477376.36

TABLE A.5-9

SAMPLE LIST - GMA SOIL
OUTSIDE BATTERY LIMITS
SOUTH FIELD

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
032639	21-APR-90	2385	45.0	46.5	1379923.25	477886.51	1348454.26	477915.86
032725	13-JUN-90	3385	80.0	81.5	1379932.66	477883.04	1348463.67	477912.39
055373	19-MAY-90	1516	1.0	1.5				
055375	19-MAY-90	1516	2.0	2.5				
055377	19-MAY-90	1516	3.0	3.5				
055379	19-MAY-90	1516	4.0	4.5				
055383	19-MAY-90	1516	6.0	6.5				
055387	19-MAY-90	1516	8.0	8.5				
055389	19-MAY-90	1516	9.0	9.5				
055391	19-MAY-90	1516	10.0	10.5				
055393	19-MAY-90	1516	11.0	11.5				
055395	19-MAY-90	1516	12.0	12.5				
055399	19-MAY-90	1516	14.0	14.5				
055401	19-MAY-90	1516	15.0	15.5				
055405	19-MAY-90	1516	17.0	17.5				
055407	19-MAY-90	1516	18.0	18.5				
055409	19-MAY-90	1516	19.0	19.5				
055416	20-MAY-90	1517	1.5	2.0				
055419	20-MAY-90	1517	3.0	3.5				
055422	20-MAY-90	1517	4.5	5.0				
055425	20-MAY-90	1517	6.0	6.5				
055427	20-MAY-90	1517	7.0	7.5				
055429	20-MAY-90	1517	8.0	8.5				
055431	20-MAY-90	1517	9.0	9.5				
055433	20-MAY-90	1517	10.0	10.5				
055437	20-MAY-90	1517	12.0	12.5				
055440	20-MAY-90	1517	13.5	14.0				
055443	20-MAY-90	1517	15.0	15.5				
055446	20-MAY-90	1517	16.5	17.0				
055449	20-MAY-90	1517	18.0	18.5				
055451	20-MAY-90	1517	19.0	19.5				
055456	22-MAY-90	1518	1.0	1.5				
055458	22-MAY-90	1518	2.0	2.5				
055460	22-MAY-90	1518	3.0	3.5				

TABLE A.5-9
(Continued)

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
055462	22-MAY-90	1518	4.0	4.5				
055464	22-MAY-90	1518	5.0	5.5				
055466	22-MAY-90	1518	6.0	6.5				
055468	22-MAY-90	1518	7.0	7.5				
055470	22-MAY-90	1518	8.0	8.5				
055472	22-MAY-90	1518	9.0	9.5				
055474	22-MAY-90	1518	10.0	10.5				
055476	22-MAY-90	1518	11.0	11.5				
055478	22-MAY-90	1518	12.0	12.5				
055481	22-MAY-90	1518	13.5	14.0				
055483	22-MAY-90	1518	14.5	15.0				
055485	22-MAY-90	1518	15.5	16.0				
055487	22-MAY-90	1518	16.5	17.0				
055489	22-MAY-90	1518	17.5	18.0				
055491	22-MAY-90	1518	18.5	19.0				
055493	22-MAY-90	1518	19.5	20.0				

TABLE A.5-10

SAMPLE LIST - SEDIMENT
SOUTH FIELD

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
110425	24-MAR-93	SF-SD-01	0.0	0.5	1379817.45	477664.35	1348348.53	477693.71
110428	25-MAR-93	SF-SD-03	0.0	0.5	1379652.11	477160.87	1348183.20	477190.23
110430	25-MAR-93	SF-SD-02	0.0	0.5	1379689.83	477120.78	1348220.92	477150.14

000293

TABLE A.5-11

SAMPLE LIST - PERCHED GROUNDWATER
INSIDE BATTERY LIMITS
SOUTH FIELD

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
003089	13-APR-88	1046	N\A	N\A	1379428.51	478054.76	1347959.53	478084.12
003370	24-JUL-88	1046	N\A	N\A	1379428.51	478054.76	1347959.53	478084.12
003649	23-OCT-88	1046	N\A	N\A	1379428.51	478054.76	1347959.53	478084.12
003854	22-JAN-89	1046	N\A	N\A	1379428.51	478054.76	1347959.53	478084.12
047040	16-NOV-92	1433	N\A	N\A	1379116.16	477991.53	1347647.18	478020.87
047044	30-NOV-92	1433	N\A	N\A	1379116.16	477991.53	1347647.18	478020.87
047048	02-DEC-92	1433	N\A	N\A	1379116.16	477991.53	1347647.18	478020.87
066829	12-DEC-89	1046	N\A	N\A	1379428.51	478054.76	1347959.53	478084.12
112997	30-APR-93	1941	N\A	N\A	1379691.99	477932.76	1348223.01	477962.12
113000	01-MAY-93	1942	N\A	N\A	1379627.53	477662.53	1348158.56	477691.89
113312	28-MAY-93	1046	N\A	N\A	1379428.51	478054.76	1347959.53	478084.12
113316	28-MAY-93	1941	N\A	N\A	1379691.99	477932.76	1348223.01	477962.12
113319	28-MAY-93	1942	N\A	N\A	1379627.53	477662.53	1348158.56	477691.89
113798	22-JUN-93	1954	N\A	N\A	1379400.07	477864.72	1347931.10	477894.08
116231	11-MAY-93	1046	N\A	N\A	1379428.51	478054.76	1347959.53	478084.12

TABLE A.5-12

SAMPLE LIST - PERCHED GROUNDWATER
OUTSIDE BATTERY LIMITS
SOUTH FIELD

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
003136	14-APR-88	1065	N\A	N\A	1380415.98	477860.01	1348947.00	477889.38
003860	22-JAN-89	1065	N\A	N\A	1380415.98	477860.01	1348947.00	477889.38
066834	13-DEC-89	1065	N\A	N\A	1380415.98	477860.01	1348947.00	477889.38
112013	04-MAY-93	1065	N\A	N\A	1380415.98	477860.01	1348947.00	477889.38
112014	04-MAY-93	1065	N\A	N\A	1380415.98	477860.01	1348947.00	477889.38
113792	16-JUN-93	11085	N\A	N\A	1379926.48	477869.01	1348457.56	477898.37
113869	30-JUN-93	11032	N\A	N\A	1379787.13	478072.47	1348318.21	478101.84
113871	30-JUN-93	11032	N\A	N\A	1379787.13	478072.47	1348318.21	478101.84

000395

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110304	Aroclor-1254	1977	89	ug/kg	-	89	100.00%
110338	Aroclor-1254	1969	50	ug/kg	U	25	95.00%
110351	Aroclor-1254	1965	48	ug/kg	U	24	90.00%
110355	Aroclor-1254	1966	46	ug/kg	U	23	85.00%
110307	Aroclor-1254	SF-SS-21	45	ug/kg	U	22.5	75.00%
110372	Aroclor-1254	1970	45	ug/kg	U	22.5	75.00%
110335	Aroclor-1254	1978	44	ug/kg	U	22	70.00%
110317	Aroclor-1254		43	ug/kg	U	21.5	40.00%
110340	Aroclor-1254	11188	43	ug/kg	U	21.5	40.00%
110331	Aroclor-1254	1964	43	ug/kg	U	21.5	40.00%
110358	Aroclor-1254	1967	43	ug/kg	U	21.5	40.00%
110392	Aroclor-1254	1968	43	ug/kg	U	21.5	40.00%
110343	Aroclor-1254	SF-SS-16	43	ug/kg	U	21.5	40.00%
110297	Aroclor-1254	SF-SS-17	42	ug/kg	U	21	30.00%
110290	Aroclor-1254	SF-SS-20	42	ug/kg	U	21	30.00%
110378	Aroclor-1254	1972	41	ug/kg	U	20.5	5.00%
110321	Aroclor-1254		41	ug/kg	U	20.5	5.00%
110324	Aroclor-1254	1971	41	ug/kg	U	20.5	5.00%
110385	Aroclor-1254	1975	41	ug/kg	U	20.5	5.00%
110365	Aroclor-1254	SF-SS-19	41	ug/kg	U	20.5	5.00%
110287	Aroclor-1254	SF-SS-18	39	ug/kg	U	19.5	0.00%

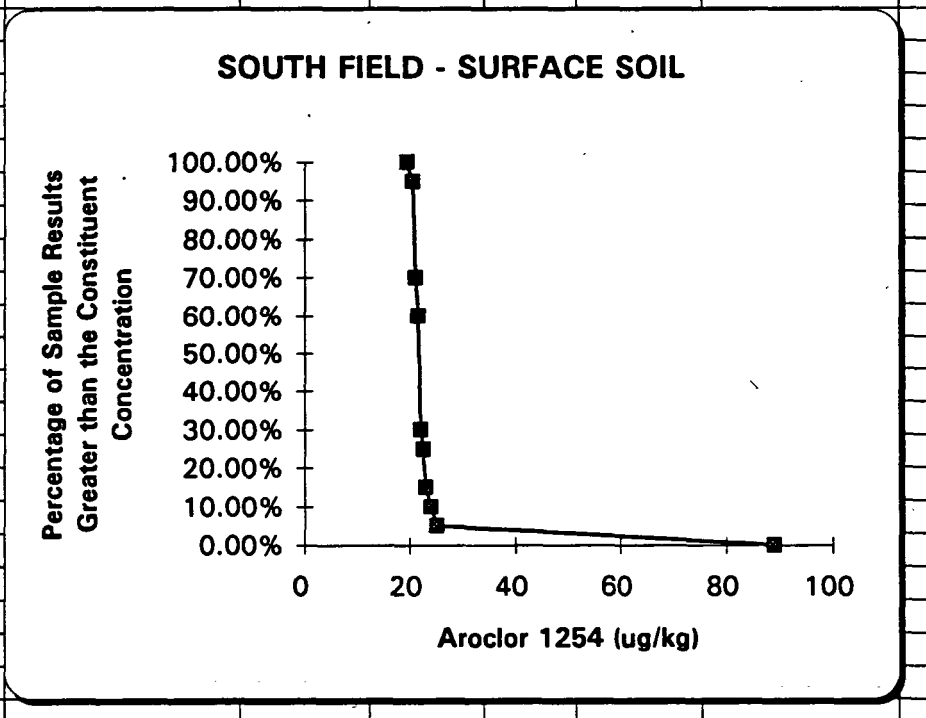

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110365	Aroclor-1260	SF-SS-19	52	ug/kg	-	52	100.00%
110287	Aroclor-1260	SF-SS-18	38	ug/kg	J	38	95.00%
110338	Aroclor-1260	1969	50	ug/kg	U	25	90.00%
110351	Aroclor-1260	1965	48	ug/kg	U	24	85.00%
110355	Aroclor-1260	1966	46	ug/kg	U	23	80.00%
110307	Aroclor-1260	SF-SS-21	45	ug/kg	U	22.5	70.00%
110372	Aroclor-1260	1970	45	ug/kg	U	22.5	70.00%
110335	Aroclor-1260	1978	44	ug/kg	U	22	65.00%
110317	Aroclor-1260		43	ug/kg	U	21.5	35.00%
110340	Aroclor-1260	11188	43	ug/kg	U	21.5	35.00%
110331	Aroclor-1260	1964	43	ug/kg	U	21.5	35.00%
110358	Aroclor-1260	1967	43	ug/kg	U	21.5	35.00%
110392	Aroclor-1260	1968	43	ug/kg	U	21.5	35.00%
110343	Aroclor-1260	SF-SS-16	43	ug/kg	U	21.5	35.00%
110297	Aroclor-1260	SF-SS-17	42	ug/kg	U	21	25.00%
110290	Aroclor-1260	SF-SS-20	42	ug/kg	U	21	25.00%
110378	Aroclor-1260	1972	41	ug/kg	U	20.5	5.00%
110321	Aroclor-1260		41	ug/kg	U	20.5	5.00%
110324	Aroclor-1260	1971	41	ug/kg	U	20.5	5.00%
110385	Aroclor-1260	1975	41	ug/kg	U	20.5	5.00%
110304	Aroclor-1260	1977	40	ug/kg	U	20	0.00%

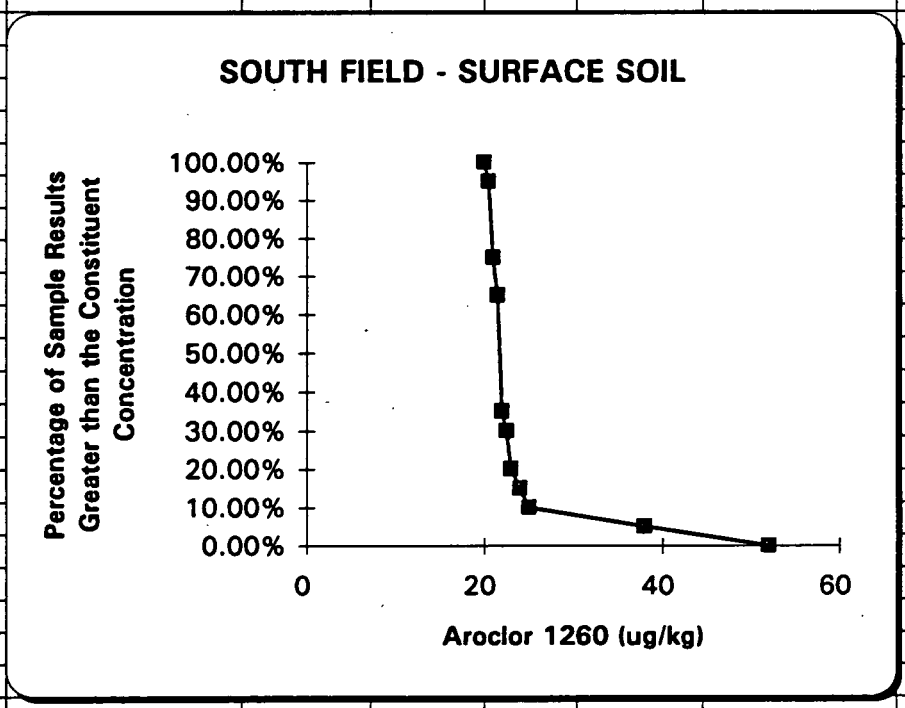

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110307	Arsenic	SF-SS-21	9.3	mg/kg	-	9.3	100.00%
110338	Arsenic	1969	9.1	mg/kg	-	9.1	95.00%
110358	Arsenic	1967	8.4	mg/kg	-	8.4	90.00%
110331	Arsenic	1964	7.9	mg/kg	-	7.9	85.00%
110317	Arsenic		7.8	mg/kg	-	7.8	80.00%
110372	Arsenic	1970	7.7	mg/kg	-	7.7	75.00%
110340	Arsenic	11188	7.5	mg/kg	-	7.5	70.00%
110355	Arsenic	1966	7.3	mg/kg	-	7.3	65.00%
110378	Arsenic	1972	7	mg/kg	-	7	55.00%
110385	Arsenic	1975	7	mg/kg	-	7	55.00%
110304	Arsenic	1977	6.8	mg/kg	-	6.8	50.00%
110290	Arsenic	SF-SS-20	6.5	mg/kg	-	6.5	45.00%
110335	Arsenic	1978	6.1	mg/kg	-	6.1	40.00%
110343	Arsenic	SF-SS-16	5.9	mg/kg	-	5.9	35.00%
110297	Arsenic	SF-SS-17	5.5	mg/kg	-	5.5	25.00%
110392	Arsenic	1968	5.5	mg/kg	J	5.5	25.00%
110324	Arsenic	1971	5.2	mg/kg	-	5.2	15.00%
110287	Arsenic	SF-SS-18	5.2	mg/kg	J	5.2	15.00%
110321	Arsenic		4.9	mg/kg	-	4.9	5.00%
110351	Arsenic	1965	4.9	mg/kg	-	4.9	5.00%
110365	Arsenic	SF-SS-19	4.6	mg/kg	-	4.6	0.00%

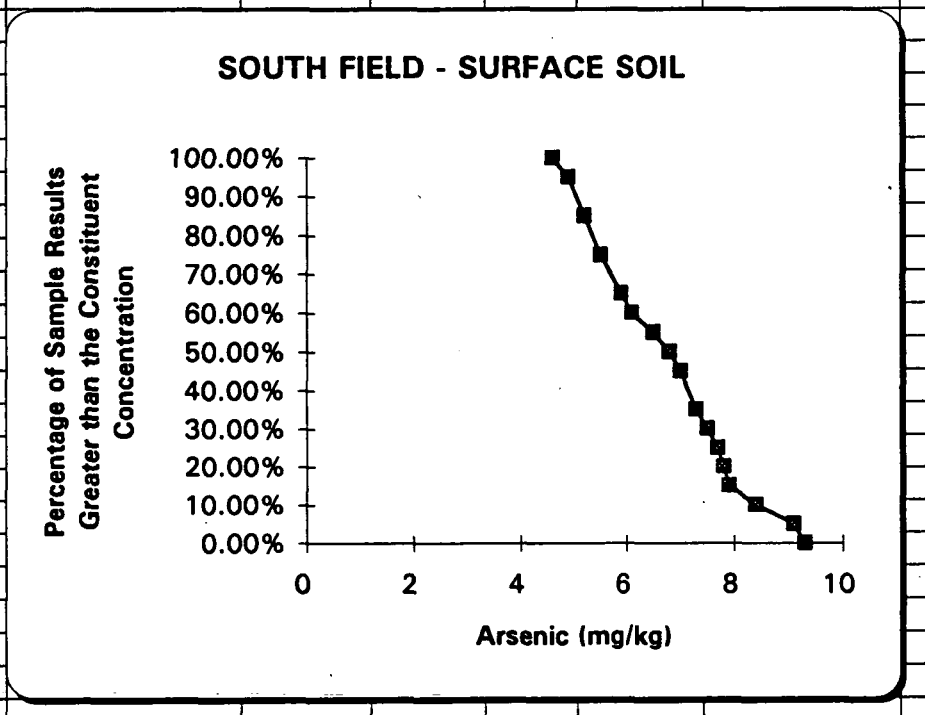

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110378	Benzo(a)anthracene	1972	5500	ug/kg	-	5500	100.00%
110297	Benzo(a)anthracene	SF-SS-17	2500	ug/kg	-	2500	95.00%
110304	Benzo(a)anthracene	1977	630	ug/kg	-	630	90.00%
110287	Benzo(a)anthracene	SF-SS-18	530	ug/kg	-	530	85.00%
110317	Benzo(a)anthracene		250	ug/kg	J	250	75.00%
110338	Benzo(a)anthracene	1969	500	ug/kg	U	250	75.00%
110351	Benzo(a)anthracene	1965	480	ug/kg	U	240	70.00%
110355	Benzo(a)anthracene	1966	460	ug/kg	U	230	65.00%
110307	Benzo(a)anthracene	SF-SS-21	450	ug/kg	U	225	60.00%
110335	Benzo(a)anthracene	1978	440	ug/kg	U	220	55.00%
110331	Benzo(a)anthracene	1964	430	ug/kg	U	215	45.00%
110358	Benzo(a)anthracene	1967	430	ug/kg	U	215	45.00%
110321	Benzo(a)anthracene		410	ug/kg	U	205	35.00%
110385	Benzo(a)anthracene	1975	410	ug/kg	U	205	35.00%
110340	Benzo(a)anthracene	11188	180	ug/kg	J	180	30.00%
110343	Benzo(a)anthracene	SF-SS-16	160	ug/kg	J	160	25.00%
110372	Benzo(a)anthracene	1970	58	ug/kg	J	58	20.00%
110365	Benzo(a)anthracene	SF-SS-19	54	ug/kg	J	54	15.00%
110392	Benzo(a)anthracene	1968	51	ug/kg	J	51	10.00%
110290	Benzo(a)anthracene	SF-SS-20	46	ug/kg	J	46	5.00%
110324	Benzo(a)anthracene	1971	44	ug/kg	J	44	0.00%

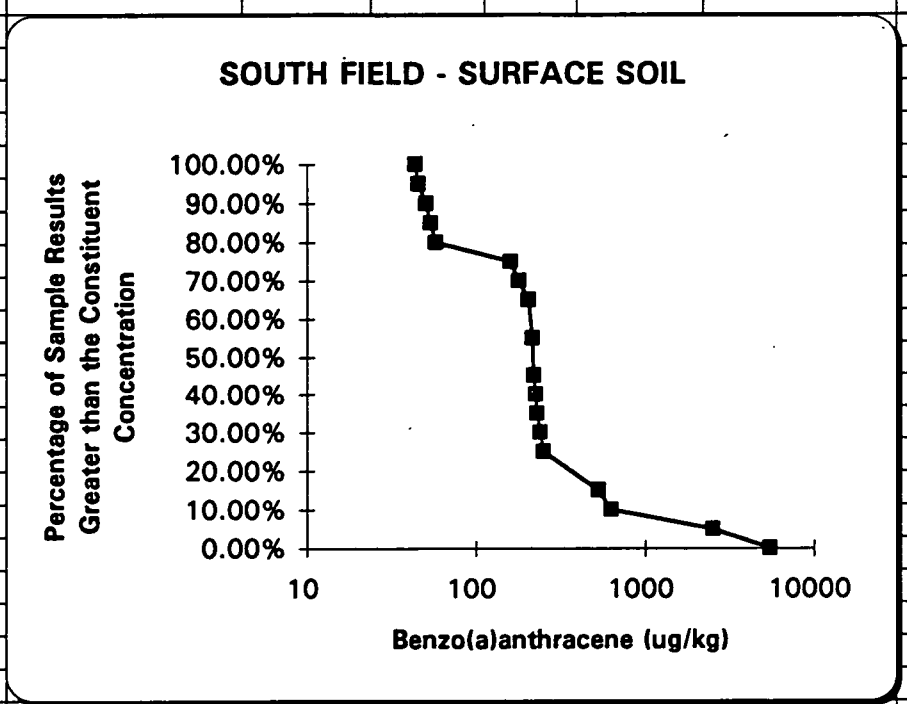

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110378	Benzo(a)pyrene	1972	9400	ug/kg	-	9400	100.00%
110297	Benzo(a)pyrene	SF-SS-17	4700	ug/kg	-	4700	95.00%
110304	Benzo(a)pyrene	1977	800	ug/kg	-	800	90.00%
110287	Benzo(a)pyrene	SF-SS-18	750	ug/kg	-	750	85.00%
110340	Benzo(a)pyrene	11188	280	ug/kg	J	280	80.00%
110317	Benzo(a)pyrene		270	ug/kg	J	270	75.00%
110338	Benzo(a)pyrene	1969	500	ug/kg	U	250	70.00%
110351	Benzo(a)pyrene	1965	480	ug/kg	U	240	65.00%
110355	Benzo(a)pyrene	1966	460	ug/kg	U	230	60.00%
110307	Benzo(a)pyrene	SF-SS-21	450	ug/kg	U	225	55.00%
110335	Benzo(a)pyrene	1978	440	ug/kg	U	220	50.00%
110331	Benzo(a)pyrene	1964	430	ug/kg	U	215	40.00%
110358	Benzo(a)pyrene	1967	430	ug/kg	U	215	40.00%
110324	Benzo(a)pyrene	1971	420	ug/kg	U	210	35.00%
110385	Benzo(a)pyrene	1975	410	ug/kg	U	205	30.00%
110343	Benzo(a)pyrene	SF-SS-16	170	ug/kg	J	170	25.00%
110290	Benzo(a)pyrene	SF-SS-20	79	ug/kg	J	79	20.00%
110372	Benzo(a)pyrene	1970	67	ug/kg	J	67	15.00%
110365	Benzo(a)pyrene	SF-SS-19	59	ug/kg	J	59	10.00%
110392	Benzo(a)pyrene	1968	55	ug/kg	J	55	5.00%
110321	Benzo(a)pyrene		51	ug/kg	J	51	0.00%

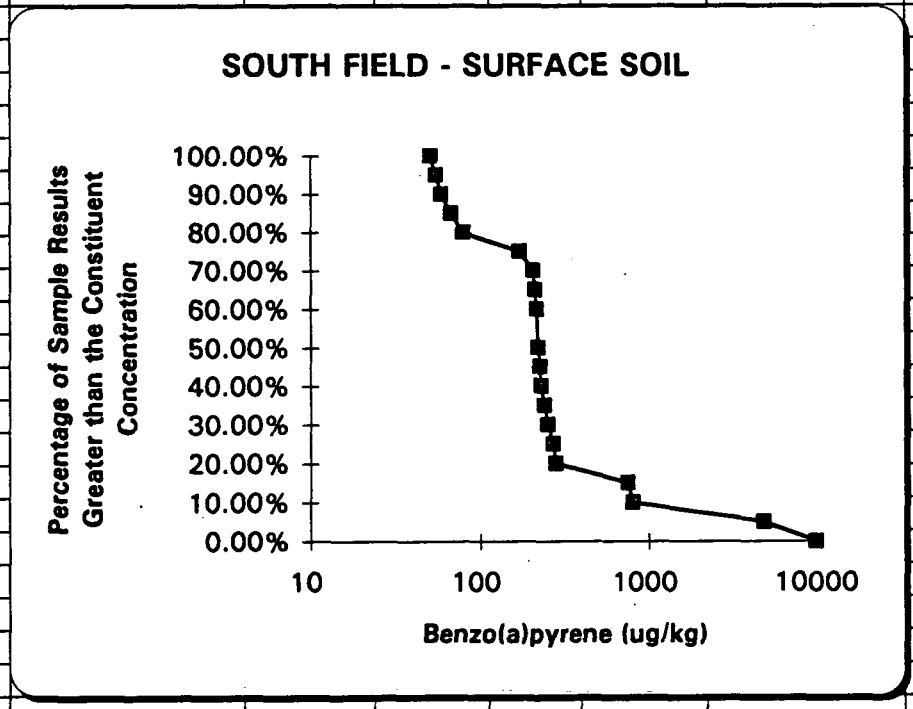

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110378	Benzo(b)fluoranthene	1972	6200	ug/kg	-	6200	100.00%
110297	Benzo(b)fluoranthene	SF-SS-17	3900	ug/kg	-	3900	95.00%
110287	Benzo(b)fluoranthene	SF-SS-18	700	ug/kg	-	700	90.00%
110304	Benzo(b)fluoranthene	1977	670	ug/kg	-	670	85.00%
110338	Benzo(b)fluoranthene	1969	500	ug/kg	U	250	80.00%
110317	Benzo(b)fluoranthene		240	ug/kg	J	240	65.00%
110340	Benzo(b)fluoranthene	11188	240	ug/kg	J	240	65.00%
110351	Benzo(b)fluoranthene	1965	480	ug/kg	U	240	65.00%
110355	Benzo(b)fluoranthene	1966	460	ug/kg	U	230	60.00%
110307	Benzo(b)fluoranthene	SF-SS-21	450	ug/kg	U	225	55.00%
110335	Benzo(b)fluoranthene	1978	440	ug/kg	U	220	50.00%
110331	Benzo(b)fluoranthene	1964	430	ug/kg	U	215	40.00%
110358	Benzo(b)fluoranthene	1967	430	ug/kg	U	215	40.00%
110324	Benzo(b)fluoranthene	1971	420	ug/kg	U	210	35.00%
110385	Benzo(b)fluoranthene	1975	410	ug/kg	U	205	30.00%
110343	Benzo(b)fluoranthene	SF-SS-16	160	ug/kg	J	160	25.00%
110372	Benzo(b)fluoranthene	1970	74	ug/kg	J	74	20.00%
110365	Benzo(b)fluoranthene	SF-SS-19	66	ug/kg	J	66	15.00%
110290	Benzo(b)fluoranthene	SF-SS-20	65	ug/kg	J	65	10.00%
110392	Benzo(b)fluoranthene	1968	62	ug/kg	J	62	5.00%
110321	Benzo(b)fluoranthene		46	ug/kg	J	46	0.00%

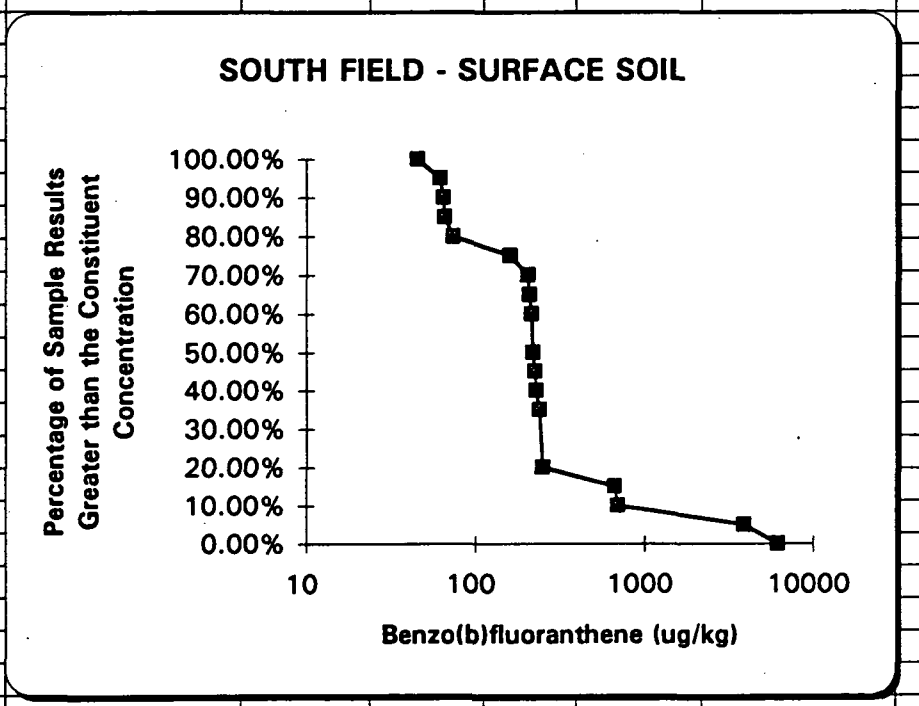

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110378	Benzo(k)fluoranthene	1972	7300	ug/kg	-	7300	100.00%
110297	Benzo(k)fluoranthene	SF-SS-17	3300	ug/kg	-	3300	95.00%
110304	Benzo(k)fluoranthene	1977	710	ug/kg	-	710	90.00%
110287	Benzo(k)fluoranthene	SF-SS-18	670	ug/kg	-	670	85.00%
110340	Benzo(k)fluoranthene	11188	290	ug/kg	J	290	80.00%
110338	Benzo(k)fluoranthene	1969	500	ug/kg	U	250	75.00%
110317	Benzo(k)fluoranthene		240	ug/kg	J	240	65.00%
110351	Benzo(k)fluoranthene	1965	480	ug/kg	U	240	65.00%
110355	Benzo(k)fluoranthene	1966	460	ug/kg	U	230	60.00%
110307	Benzo(k)fluoranthene	SF-SS-21	450	ug/kg	U	225	55.00%
110335	Benzo(k)fluoranthene	1978	440	ug/kg	U	220	50.00%
110331	Benzo(k)fluoranthene	1964	430	ug/kg	U	215	40.00%
110358	Benzo(k)fluoranthene	1967	430	ug/kg	U	215	40.00%
110385	Benzo(k)fluoranthene	1975	410	ug/kg	U	205	35.00%
110343	Benzo(k)fluoranthene	SF-SS-16	180	ug/kg	J	180	30.00%
110365	Benzo(k)fluoranthene	SF-SS-19	71	ug/kg	J	71	25.00%
110372	Benzo(k)fluoranthene	1970	69	ug/kg	J	69	20.00%
110290	Benzo(k)fluoranthene	SF-SS-20	57	ug/kg	J	57	15.00%
110392	Benzo(k)fluoranthene	1968	53	ug/kg	J	53	10.00%
110324	Benzo(k)fluoranthene	1971	52	ug/kg	J	52	5.00%
110321	Benzo(k)fluoranthene		49	ug/kg	J	49	0.00%

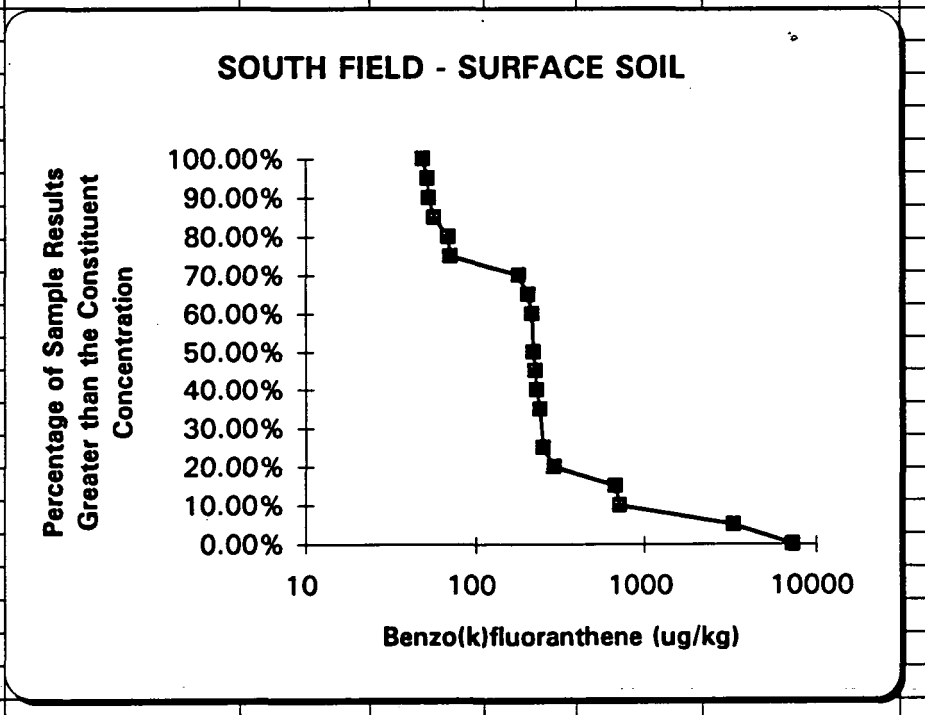

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110297	Beryllium	SF-SS-17	1.9	mg/kg	-	1.9	100.00%
110338	Beryllium	1969	1.5	mg/kg	-	1.5	95.00%
110307	Beryllium	SF-SS-21	1	mg/kg	-	1	90.00%
110351	Beryllium	1965	0.98	mg/kg	-	0.98	85.00%
110355	Beryllium	1966	0.91	mg/kg	-	0.91	80.00%
110340	Beryllium	11188	0.87	mg/kg	-	0.87	75.00%
110331	Beryllium	1964	0.86	mg/kg	-	0.86	65.00%
110335	Beryllium	1978	0.86	mg/kg	-	0.86	65.00%
110343	Beryllium	SF-SS-16	0.84	mg/kg	-	0.84	60.00%
110317	Beryllium		0.83	mg/kg	-	0.83	55.00%
110324	Beryllium	1971	0.75	mg/kg	-	0.75	50.00%
110358	Beryllium	1967	0.71	mg/kg	-	0.71	45.00%
110372	Beryllium	1970	0.68	mg/kg	-	0.68	40.00%
110304	Beryllium	1977	0.63	mg/kg	-	0.63	35.00%
110385	Beryllium	1975	0.61	mg/kg	-	0.61	30.00%
110290	Beryllium	SF-SS-20	0.6	mg/kg	-	0.6	25.00%
110321	Beryllium		0.59	mg/kg	-	0.59	20.00%
110392	Beryllium	1968	0.57	mg/kg	-	0.57	15.00%
110378	Beryllium	1972	0.52	mg/kg	-	0.52	10.00%
110365	Beryllium	SF-SS-19	0.49	mg/kg	-	0.49	5.00%
110287	Beryllium	SF-SS-18	0.92	mg/kg	U	0.46	0.00%

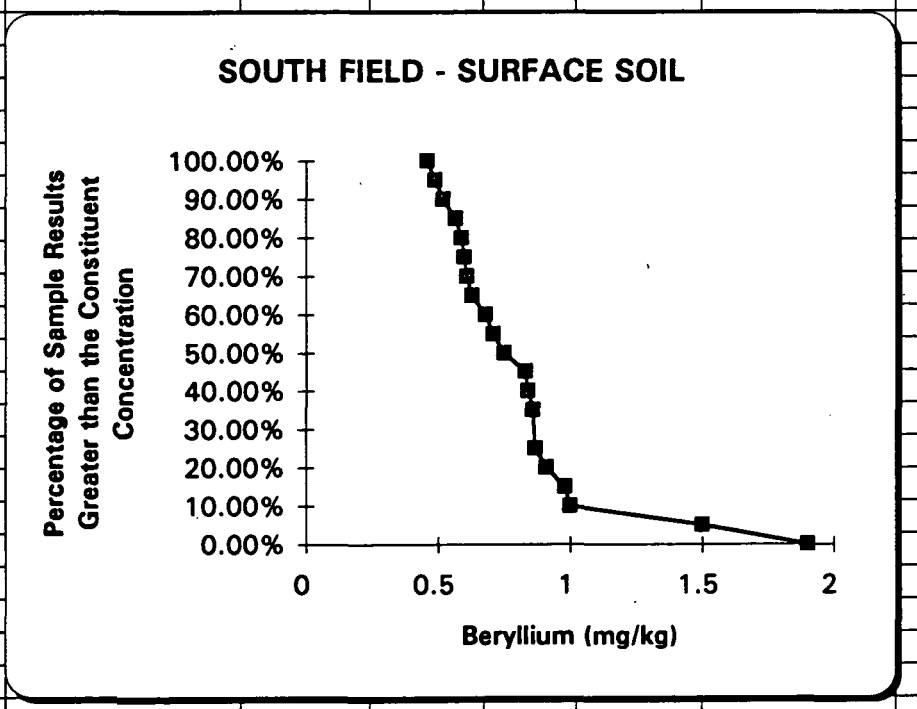

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110351	Cesium-137	1965	0.836	pci/g	-	0.836	100.00%
110335	Cesium-137	1978	0.799	pci/g	-	0.799	95.00%
110355	Cesium-137	1966	0.736	pci/g	-	0.736	90.00%
110331	Cesium-137	1964	0.692	pci/g	-	0.692	85.00%
110372	Cesium-137	1970	0.691	pci/g	-	0.691	80.00%
110317	Cesium-137		0.583	pci/g	-	0.583	75.00%
110307	Cesium-137	SF-SS-21	0.565	pci/g	-	0.565	70.00%
110378	Cesium-137	1972	0.473	pci/g	-	0.473	65.00%
110392	Cesium-137	1968	0.465	pci/g	-	0.465	60.00%
110365	Cesium-137	SF-SS-19	0.415	pci/g	-	0.415	55.00%
110358	Cesium-137	1967	0.39	pci/g	-	0.39	50.00%
110343	Cesium-137	SF-SS-16	0.35	pci/g	-	0.35	45.00%
110290	Cesium-137	SF-SS-20	0.313	pci/g	-	0.313	40.00%
110297	Cesium-137	SF-SS-17	0.289	pci/g	-	0.289	35.00%
110338	Cesium-137	1969	0.254	pci/g	-	0.254	30.00%
110321	Cesium-137		0.196	pci/g	-	0.196	25.00%
110304	Cesium-137	1977	0.116	pci/g	-	0.116	20.00%
110340	Cesium-137	11188	0.112	pci/g	-	0.112	15.00%
110385	Cesium-137	1975	0.089	pci/g	J	0.089	10.00%
110324	Cesium-137	1971	0.109	pci/g	UJ	0.0545	5.00%
110287	Cesium-137	SF-SS-18	0.0878	pci/g	UJ	0.0439	0.00%

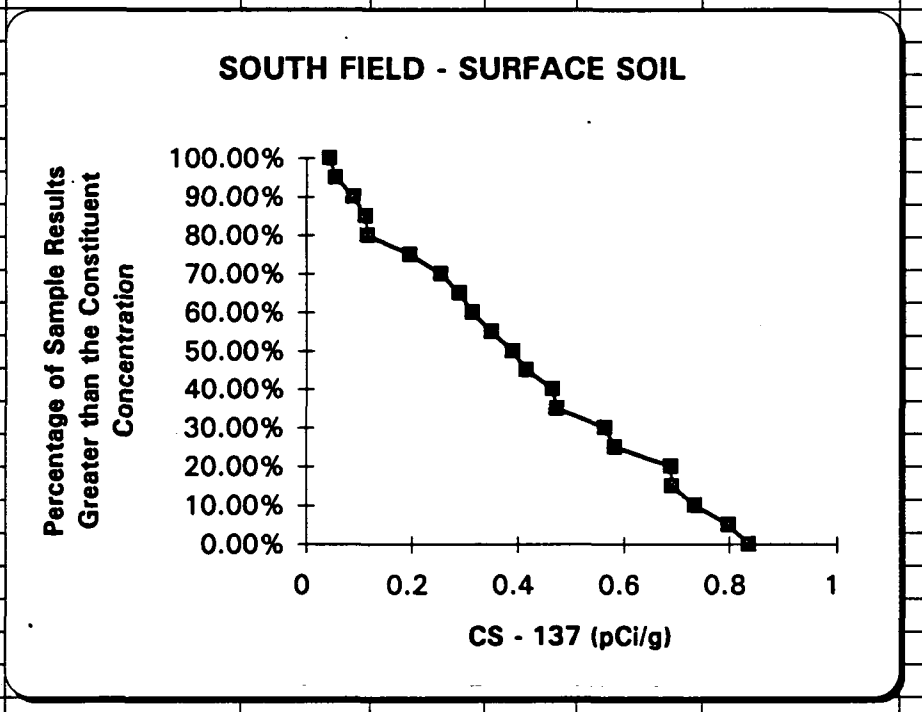

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110378	Dibenzo(a,h)anthracene	1972	1900	ug/kg	J	1900	100.00%
110297	Dibenzo(a,h)anthracene	SF-SS-17	1100	ug/kg	-	1100	95.00%
110338	Dibenzo(a,h)anthracene	1969	500	ug/kg	U	250	90.00%
110351	Dibenzo(a,h)anthracene	1965	480	ug/kg	U	240	85.00%
110304	Dibenzo(a,h)anthracene	1977	230	ug/kg	J	230	75.00%
110355	Dibenzo(a,h)anthracene	1966	460	ug/kg	U	230	75.00%
110307	Dibenzo(a,h)anthracene	SF-SS-21	450	ug/kg	U	225	65.00%
110372	Dibenzo(a,h)anthracene	1970	450	ug/kg	U	225	65.00%
110335	Dibenzo(a,h)anthracene	1978	440	ug/kg	U	220	60.00%
110331	Dibenzo(a,h)anthracene	1964	430	ug/kg	U	215	45.00%
110358	Dibenzo(a,h)anthracene	1967	430	ug/kg	U	215	45.00%
110392	Dibenzo(a,h)anthracene	1968	430	ug/kg	U	215	45.00%
110290	Dibenzo(a,h)anthracene	SF-SS-20	420	ug/kg	U	210	35.00%
110324	Dibenzo(a,h)anthracene	1971	420	ug/kg	U	210	35.00%
110321	Dibenzo(a,h)anthracene		410	ug/kg	U	205	20.00%
110385	Dibenzo(a,h)anthracene	1975	410	ug/kg	U	205	20.00%
110365	Dibenzo(a,h)anthracene	SF-SS-19	410	ug/kg	U	205	20.00%
110287	Dibenzo(a,h)anthracene	SF-SS-18	180	ug/kg	J	180	15.00%
110340	Dibenzo(a,h)anthracene	11188	69	ug/kg	J	69	10.00%
110317	Dibenzo(a,h)anthracene		66	ug/kg	J	66	5.00%
110343	Dibenzo(a,h)anthracene	SF-SS-16	43	ug/kg	J	43	0.00%

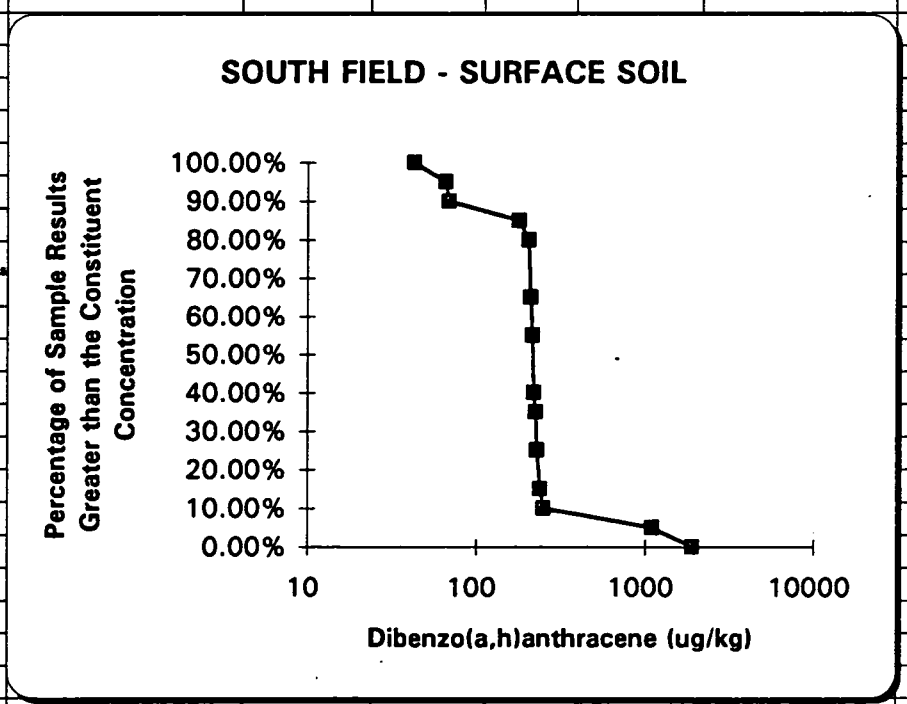

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110378	Dieldrin	1972	9.7	ug/kg	-	9.7	100.00%
110338	Dieldrin	1969	5	ug/kg	U	2.5	95.00%
110351	Dieldrin	1965	4.8	ug/kg	U	2.4	90.00%
110355	Dieldrin	1966	4.6	ug/kg	U	2.3	85.00%
110307	Dieldrin	SF-SS-21	4.5	ug/kg	U	2.25	75.00%
110372	Dieldrin	1970	4.5	ug/kg	U	2.25	75.00%
110335	Dieldrin	1978	4.4	ug/kg	U	2.2	70.00%
110317	Dieldrin		4.3	ug/kg	U	2.15	40.00%
110340	Dieldrin	11188	4.3	ug/kg	U	2.15	40.00%
110331	Dieldrin	1964	4.3	ug/kg	U	2.15	40.00%
110358	Dieldrin	1967	4.3	ug/kg	U	2.15	40.00%
110392	Dieldrin	1968	4.3	ug/kg	U	2.15	40.00%
110343	Dieldrin	SF-SS-16	4.3	ug/kg	U	2.15	40.00%
110297	Dieldrin	SF-SS-17	4.2	ug/kg	U	2.1	30.00%
110290	Dieldrin	SF-SS-20	4.2	ug/kg	U	2.1	30.00%
110321	Dieldrin		4.1	ug/kg	U	2.05	10.00%
110324	Dieldrin	1971	4.1	ug/kg	U	2.05	10.00%
110385	Dieldrin	1975	4.1	ug/kg	U	2.05	10.00%
110365	Dieldrin	SF-SS-19	4.1	ug/kg	U	2.05	10.00%
110304	Dieldrin	1977	4	ug/kg	U	2	5.00%
110287	Dieldrin	SF-SS-18	3.9	ug/kg	U	1.95	0.00%

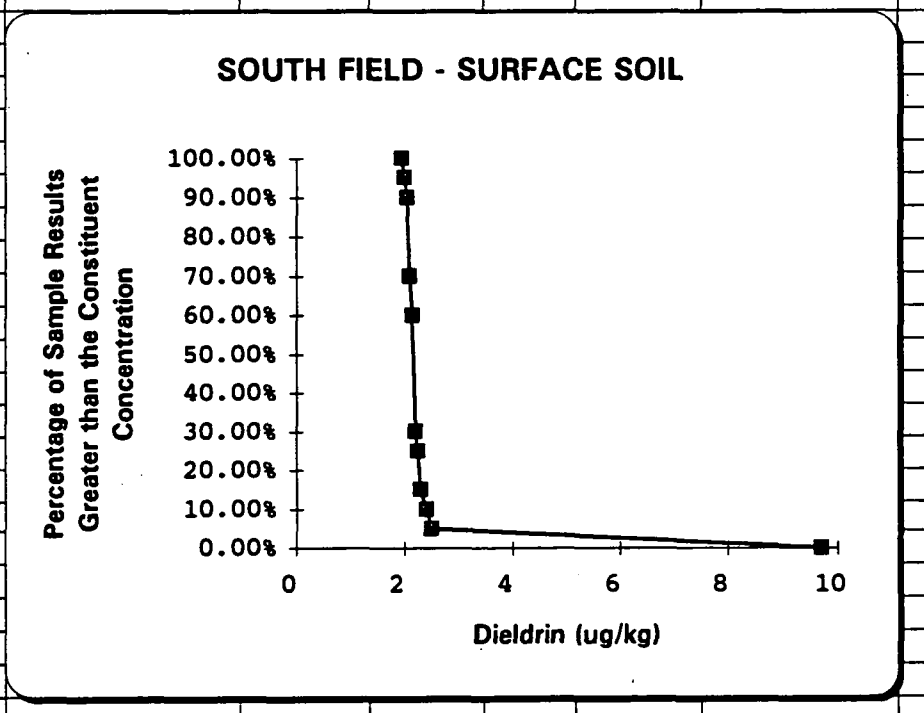

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110378	Indeno(1,2,3-cd)pyrene	1972	6000	ug/kg	-	6000	100.00%
110297	Indeno(1,2,3-cd)pyrene	SF-SS-17	3000	ug/kg	-	3000	95.00%
110304	Indeno(1,2,3-cd)pyrene	1977	620	ug/kg	-	620	90.00%
110287	Indeno(1,2,3-cd)pyrene	SF-SS-18	520	ug/kg	-	520	85.00%
110338	Indeno(1,2,3-cd)pyrene	1969	500	ug/kg	U	250	80.00%
110351	Indeno(1,2,3-cd)pyrene	1965	480	ug/kg	U	240	75.00%
110355	Indeno(1,2,3-cd)pyrene	1966	460	ug/kg	U	230	70.00%
110307	Indeno(1,2,3-cd)pyrene	SF-SS-21	450	ug/kg	U	225	65.00%
110335	Indeno(1,2,3-cd)pyrene	1978	440	ug/kg	U	220	60.00%
110331	Indeno(1,2,3-cd)pyrene	1964	430	ug/kg	U	215	45.00%
110358	Indeno(1,2,3-cd)pyrene	1967	430	ug/kg	U	215	45.00%
110392	Indeno(1,2,3-cd)pyrene	1968	430	ug/kg	U	215	45.00%
110340	Indeno(1,2,3-cd)pyrene	11188	210	ug/kg	J	210	35.00%
110324	Indeno(1,2,3-cd)pyrene	1971	420	ug/kg	U	210	35.00%
110321	Indeno(1,2,3-cd)pyrene		410	ug/kg	U	205	25.00%
110385	Indeno(1,2,3-cd)pyrene	1975	410	ug/kg	U	205	25.00%
110317	Indeno(1,2,3-cd)pyrene		150	ug/kg	J	150	20.00%
110343	Indeno(1,2,3-cd)pyrene	SF-SS-16	110	ug/kg	J	110	15.00%
110372	Indeno(1,2,3-cd)pyrene	1970	52	ug/kg	J	52	10.00%
110365	Indeno(1,2,3-cd)pyrene	SF-SS-19	51	ug/kg	J	51	5.00%
110290	Indeno(1,2,3-cd)pyrene	SF-SS-20	45	ug/kg	J	45	0.00%

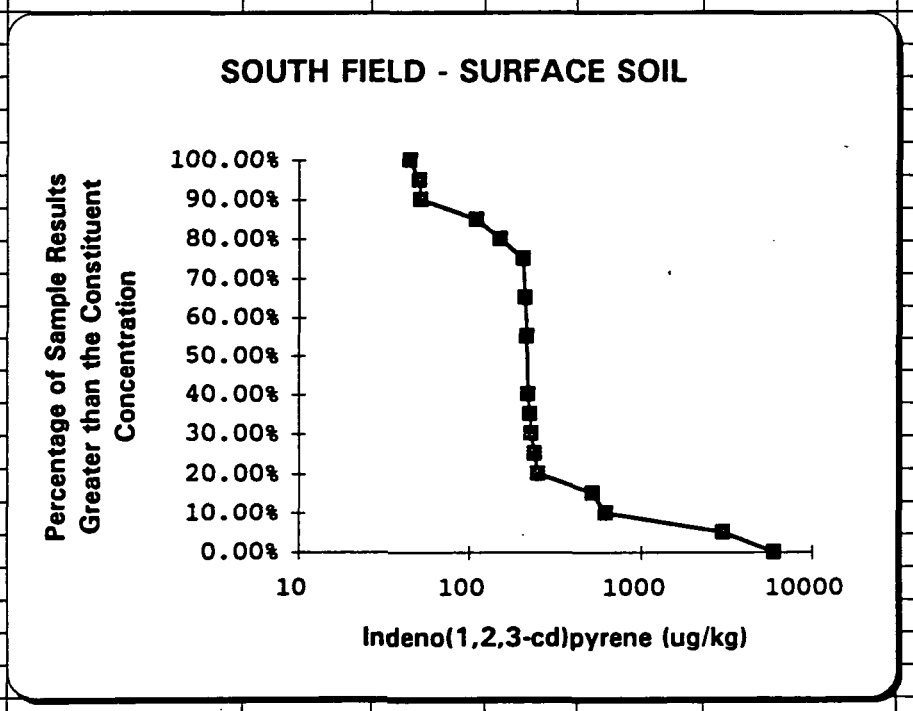

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110351	Neptunium-237	1965	0.483	pci/g	N	0.483	100.00%
110304	Neptunium-237	1977	0.336	pci/g	N	0.336	92.85%
110340	Neptunium-237	11188	0.239	pci/g	N	0.239	85.71%
110317	Neptunium-237		0.226	pci/g	N	0.226	78.57%
110355	Neptunium-237	1966	0.214	pci/g	N	0.214	71.42%
110392	Neptunium-237	1968	0.185	pci/g	N	0.185	64.28%
110331	Neptunium-237	1964	0.18	pci/g	N	0.18	57.14%
110335	Neptunium-237	1978	0.177	pci/g	N	0.177	50.00%
110338	Neptunium-237	1969	0.136	pci/g	N	0.136	42.85%
110385	Neptunium-237	1975	0.11	pci/g	N	0.11	28.57%
110365	Neptunium-237	SF-SS-19	0.11	pci/g	N	0.11	28.57%
110343	Neptunium-237	SF-SS-16	0.092	pci/g	N	0.092	21.42%
110307	Neptunium-237	SF-SS-21	0.056	pci/g	N	0.056	14.28%
110358	Neptunium-237	1967	0.074	pci/g	U	0.037	7.14%
110287	Neptunium-237	SF-SS-18	0.052	pci/g	U	0.026	0.00%

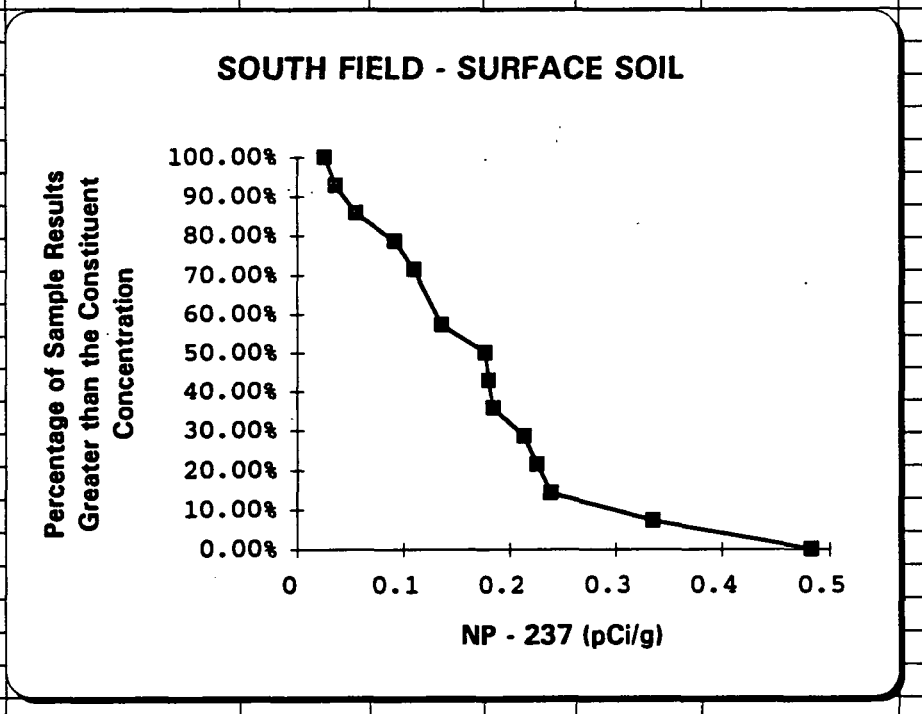

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110317	Radium-226		30.8	pci/g	-	30.8	100.00%
110378	Radium-226	1972	21.6	pci/g	-	21.6	95.00%
110307	Radium-226	SF-SS-21	3.24	pci/g	-	3.24	90.00%
110297	Radium-226	SF-SS-17	1.92	pci/g	-	1.92	85.00%
110351	Radium-226	1965	1.8	pci/g	-	1.8	80.00%
110355	Radium-226	1966	1.74	pci/g	-	1.74	75.00%
110340	Radium-226	11188	1.44	pci/g	J	1.44	70.00%
110365	Radium-226	SF-SS-19	1.43	pci/g	-	1.43	65.00%
110343	Radium-226	SF-SS-16	1.33	pci/g	J	1.33	60.00%
110331	Radium-226	1964	1.22	pci/g	J	1.22	50.00%
110335	Radium-226	1978	1.22	pci/g	J	1.22	50.00%
110338	Radium-226	1969	1.17	pci/g	J	1.17	45.00%
110321	Radium-226		1.16	pci/g	-	1.16	40.00%
110372	Radium-226	1970	1.14	pci/g	J	1.14	30.00%
110392	Radium-226	1968	1.14	pci/g	J	1.14	30.00%
110304	Radium-226	1977	1.12	pci/g	-	1.12	25.00%
110290	Radium-226	SF-SS-20	1.06	pci/g	-	1.06	20.00%
110287	Radium-226	SF-SS-18	1.04	pci/g	-	1.04	15.00%
110385	Radium-226	1975	1.02	pci/g	J	1.02	10.00%
110358	Radium-226	1967	0.95	pci/g	J	0.95	5.00%
110324	Radium-226	1971	0.874	pci/g	J	0.874	0.00%

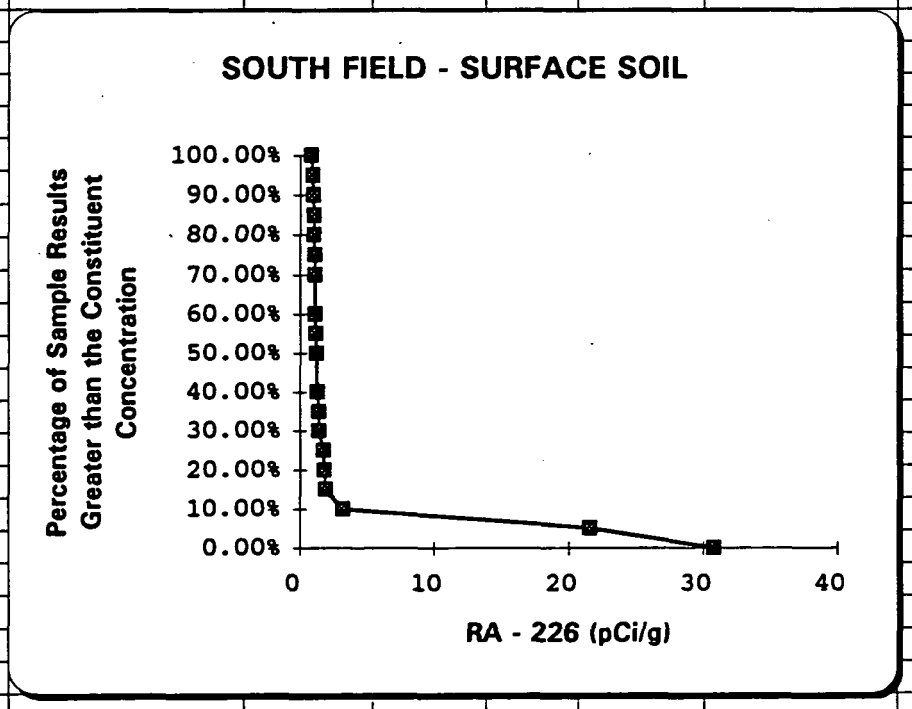

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110355	Radium-228	1966	3.88	pci/g	-	3.88	100.00%
110321	Radium-228		1.92	pci/g	-	1.92	95.00%
110317	Radium-228		1.65	pci/g	-	1.65	90.00%
110297	Radium-228	SF-SS-17	1.31	pci/g	-	1.31	85.00%
110307	Radium-228	SF-SS-21	1.29	pci/g	-	1.29	80.00%
110290	Radium-228	SF-SS-20	1.26	pci/g	-	1.26	75.00%
110351	Radium-228	1965	1.21	pci/g	-	1.21	70.00%
110343	Radium-228	SF-SS-16	1.2	pci/g	-	1.2	65.00%
110304	Radium-228	1977	1.18	pci/g	-	1.18	60.00%
110378	Radium-228	1972	1.17	pci/g	-	1.17	55.00%
110365	Radium-228	SF-SS-19	1.16	pci/g	-	1.16	50.00%
110331	Radium-228	1964	1.07	pci/g	-	1.07	40.00%
110338	Radium-228	1969	1.07	pci/g	-	1.07	40.00%
110385	Radium-228	1975	1.06	pci/g	-	1.06	35.00%
110372	Radium-228	1970	1.05	pci/g	-	1.05	25.00%
110358	Radium-228	1967	1.05	pci/g	-	1.05	25.00%
110392	Radium-228	1968	1.02	pci/g	-	1.02	20.00%
110340	Radium-228	11188	1	pci/g	-	1	15.00%
110324	Radium-228	1971	0.986	pci/g	-	0.986	10.00%
110335	Radium-228	1978	0.973	pci/g	-	0.973	5.00%
110287	Radium-228	SF-SS-18	0.917	pci/g	-	0.917	0.00%

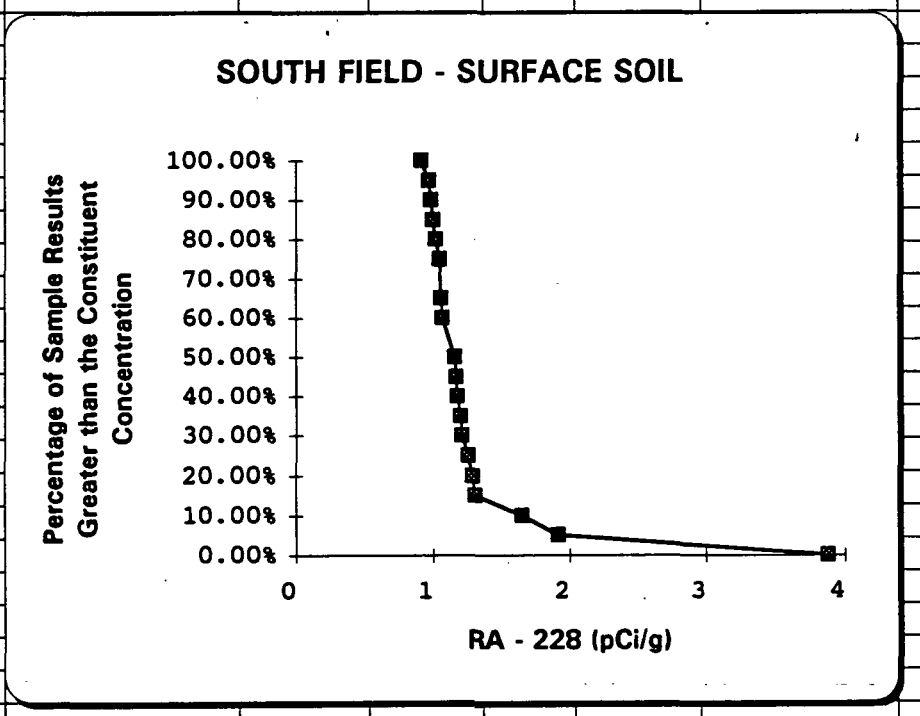

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110335	Strontium-90	1978	1	pci/g	-	1	100.00%
110287	Strontium-90	SF-SS-18	0.942	pci/g	J	0.942	95.00%
110351	Strontium-90	1965	0.534	pci/g	-	0.534	90.00%
110290	Strontium-90	SF-SS-20	0.744	pci/g	UJ	0.372	85.00%
110331	Strontium-90	1964	0.355	pci/g	N	0.355	80.00%
110307	Strontium-90	SF-SS-21	0.601	pci/g	UJ	0.3005	75.00%
110324	Strontium-90	1971	0.553	pci/g	UJ	0.2765	70.00%
110297	Strontium-90	SF-SS-17	0.508	pci/g	UJ	0.254	65.00%
110340	Strontium-90	11188	0.498	pci/g	UJ	0.249	60.00%
110343	Strontium-90	SF-SS-16	0.491	pci/g	UJ	0.2455	50.00%
110338	Strontium-90	1969	0.491	pci/g	UJ	0.2455	50.00%
110304	Strontium-90	1977	0.485	pci/g	UJ	0.2425	45.00%
110365	Strontium-90	SF-SS-19	0.481	pci/g	UJ	0.2405	40.00%
110392	Strontium-90	1968	0.428	pci/g	UJ	0.214	35.00%
110372	Strontium-90	1970	0.42	pci/g	UJ	0.21	25.00%
110321	Strontium-90		0.42	pci/g	UJ	0.21	25.00%
110317	Strontium-90		0.396	pci/g	UJ	0.198	20.00%
110355	Strontium-90	1966	0.393	pci/g	UJ	0.1965	15.00%
110378	Strontium-90	1972	0.387	pci/g	UJ	0.1935	10.00%
110358	Strontium-90	1967	0.36	pci/g	UJ	0.18	5.00%
110385	Strontium-90	1975	0.16	pci/g	J	0.16	.00%

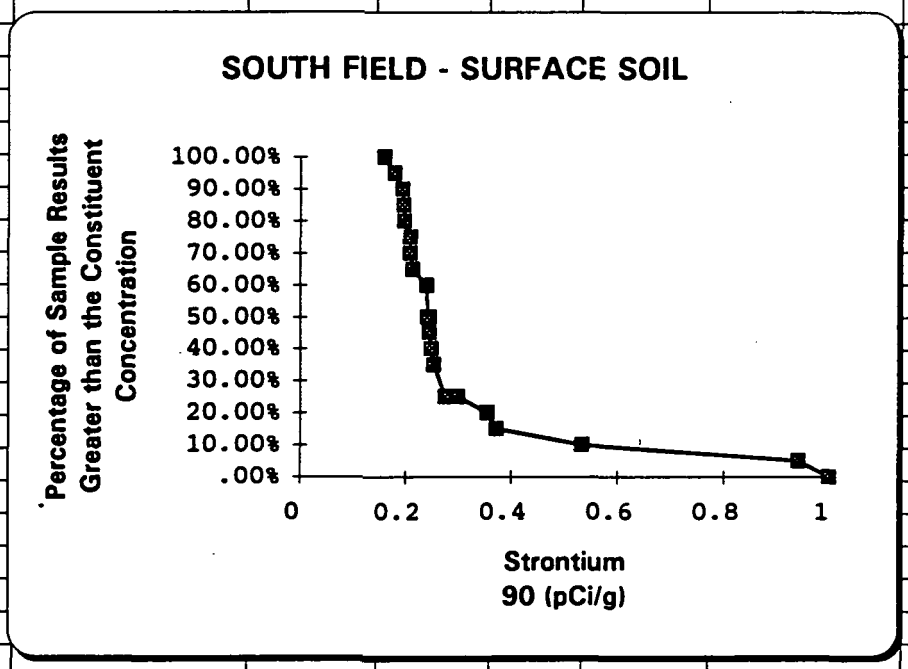

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110385	Technetium-99	1975	142	pci/g	J	142	100.00%
110355	Technetium-99	1966	0.392	pci/g	UJ	0.196	95.00%
110378	Technetium-99	1972	0.377	pci/g	UJ	0.1885	90.00%
110321	Technetium-99		0.374	pci/g	UJ	0.187	85.00%
110297	Technetium-99	SF-SS-17	0.371	pci/g	UJ	0.1855	75.00%
110317	Technetium-99		0.371	pci/g	UJ	0.1855	75.00%
110372	Technetium-99	1970	0.368	pci/g	UJ	0.184	70.00%
110304	Technetium-99	1977	0.365	pci/g	UJ	0.1825	65.00%
110290	Technetium-99	SF-SS-20	0.363	pci/g	UJ	0.1815	60.00%
110307	Technetium-99	SF-SS-21	0.362	pci/g	UJ	0.181	55.00%
110287	Technetium-99	SF-SS-18	0.361	pci/g	UJ	0.1805	45.00%
110335	Technetium-99	1978	0.361	pci/g	UJ	0.1805	45.00%
110343	Technetium-99	SF-SS-16	0.346	pci/g	UJ	0.173	40.00%
110392	Technetium-99	1968	0.345	pci/g	UJ	0.1725	35.00%
110340	Technetium-99	11188	0.343	pci/g	UJ	0.1715	30.00%
110331	Technetium-99	1964	0.342	pci/g	UJ	0.171	25.00%
110365	Technetium-99	SF-SS-19	0.339	pci/g	UJ	0.1695	20.00%
110324	Technetium-99	1971	0.335	pci/g	UJ	0.1675	15.00%
110351	Technetium-99	1965	0.333	pci/g	UJ	0.1665	10.00%
110338	Technetium-99	1969	0.33	pci/g	UJ	0.165	5.00%
110358	Technetium-99	1967	0.31	pci/g	UJ	0.155	0.00%

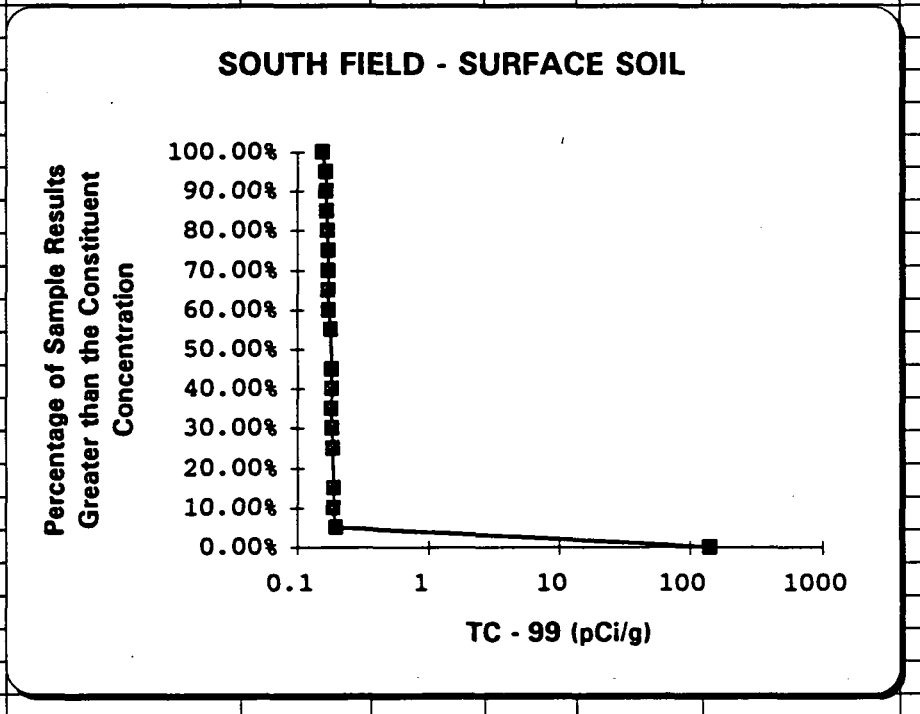

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110355	Thorium-228	1966	4.41	pci/g	-	4.41	100.00%
110321	Thorium-228		1.71	pci/g	-	1.71	93.33%
110317	Thorium-228		1.25	pci/g	-	1.25	86.66%
110343	Thorium-228	SF-SS-16	1.08	pci/g	-	1.08	80.00%
110304	Thorium-228	1977	1.06	pci/g	-	1.06	73.33%
110372	Thorium-228	1970	1.03	pci/g	-	1.03	66.66%
110335	Thorium-228	1978	1.02	pci/g	-	1.02	60.00%
110385	Thorium-228	1975	0.98	pci/g	-	0.98	53.33%
110331	Thorium-228	1964	0.911	pci/g	-	0.911	46.66%
110392	Thorium-228	1968	0.867	pci/g	-	0.867	40.00%
110365	Thorium-228	SF-SS-19	0.863	pci/g	-	0.863	33.33%
110340	Thorium-228	11188	0.823	pci/g	-	0.823	26.66%
110287	Thorium-228	SF-SS-18	0.815	pci/g	-	0.815	20.00%
110351	Thorium-228	1965	0.77	pci/g	-	0.77	13.33%
110324	Thorium-228	1971	0.684	pci/g	-	0.684	6.66%
110338	Thorium-228	1969	0.658	pci/g	-	0.658	0.00%

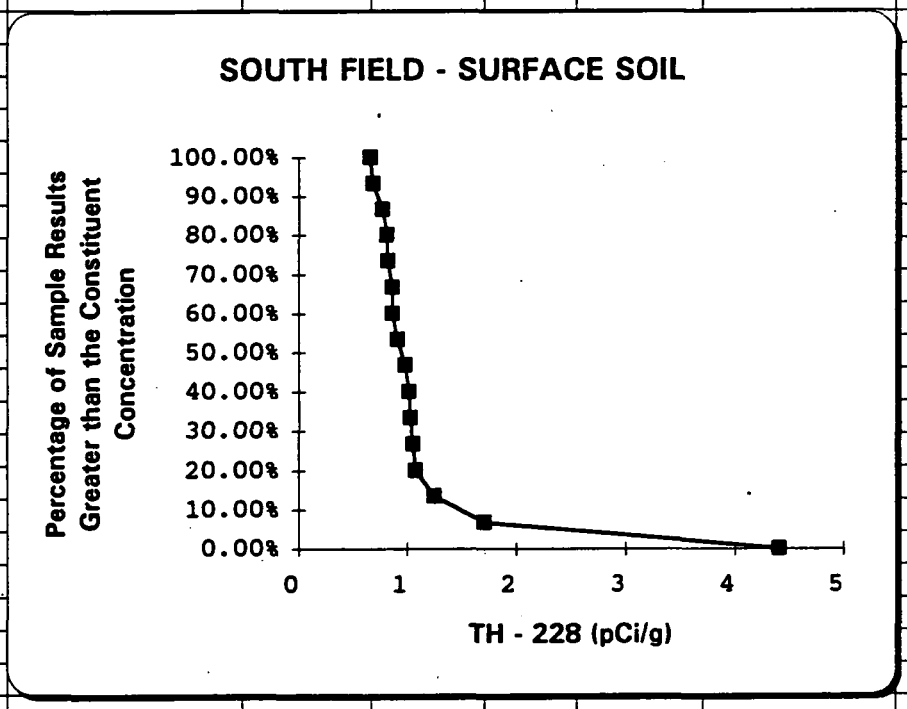

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110317	Thorium-230		13.8	pci/g	-	13.8	100.00%
110355	Thorium-230	1966	12.1	pci/g	-	12.1	93.33%
110385	Thorium-230	1975	3.52	pci/g	-	3.52	86.66%
110365	Thorium-230	SF-SS-19	2.33	pci/g	-	2.33	80.00%
110321	Thorium-230		2.22	pci/g	-	2.22	73.33%
110372	Thorium-230	1970	2.21	pci/g	-	2.21	66.66%
110343	Thorium-230	SF-SS-16	2.06	pci/g	-	2.06	60.00%
110392	Thorium-230	1968	1.98	pci/g	-	1.98	53.33%
110304	Thorium-230	1977	1.92	pci/g	-	1.92	46.66%
110335	Thorium-230	1978	1.81	pci/g	-	1.81	40.00%
110340	Thorium-230	11188	1.7	pci/g	-	1.7	33.33%
110287	Thorium-230	SF-SS-18	1.53	pci/g	-	1.53	26.66%
110331	Thorium-230	1964	1.35	pci/g	-	1.35	20.00%
110338	Thorium-230	1969	1.07	pci/g	-	1.07	13.33%
110324	Thorium-230	1971	0.158	pci/g	-	0.158	6.66%
110351	Thorium-230	1965	0.117	pci/g	-	0.117	0.00%

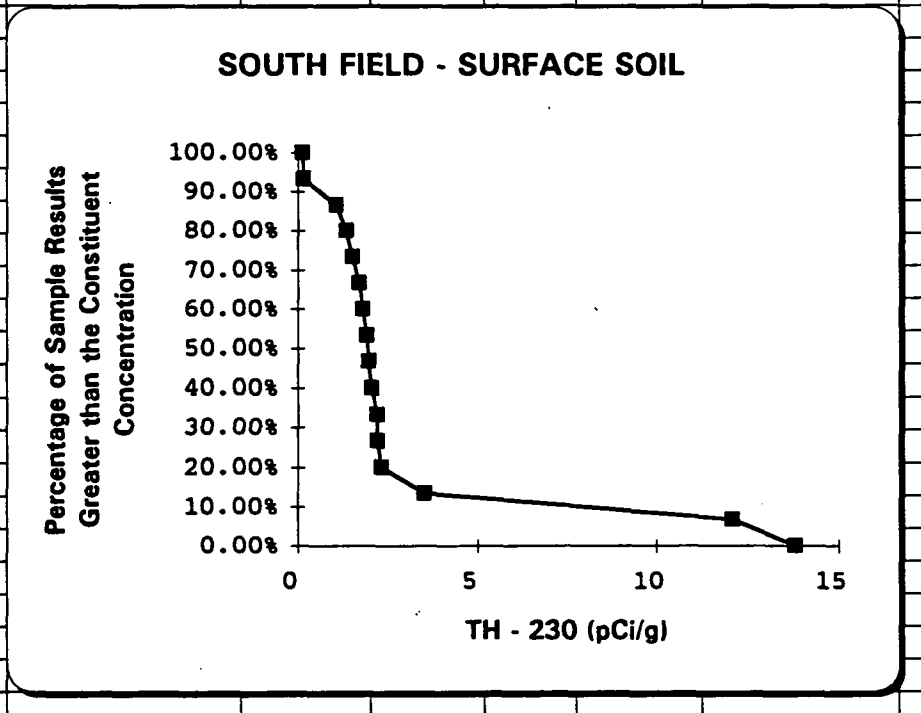

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110355	Thorium-232	1966	3.99	pci/g	-	3.99	100.00%
110321	Thorium-232		1.42	pci/g	-	1.42	93.33%
110317	Thorium-232		1.2	pci/g	-	1.2	86.66%
110392	Thorium-232	1968	1.07	pci/g	-	1.07	80.00%
110287	Thorium-232	SF-SS-18	0.929	pci/g	-	0.929	73.33%
110340	Thorium-232	11188	0.927	pci/g	-	0.927	66.66%
110372	Thorium-232	1970	0.922	pci/g	-	0.922	60.00%
110335	Thorium-232	1978	0.903	pci/g	-	0.903	53.33%
110304	Thorium-232	1977	0.859	pci/g	-	0.859	46.66%
110331	Thorium-232	1964	0.849	pci/g	-	0.849	40.00%
110343	Thorium-232	SF-SS-16	0.835	pci/g	-	0.835	33.33%
110351	Thorium-232	1965	0.825	pci/g	-	0.825	26.66%
110324	Thorium-232	1971	0.813	pci/g	-	0.813	20.00%
110338	Thorium-232	1969	0.728	pci/g	-	0.728	13.33%
110365	Thorium-232	SF-SS-19	0.674	pci/g	-	0.674	6.66%
110385	Thorium-232	1975	0.19	pci/g	-	0.19	0.00%

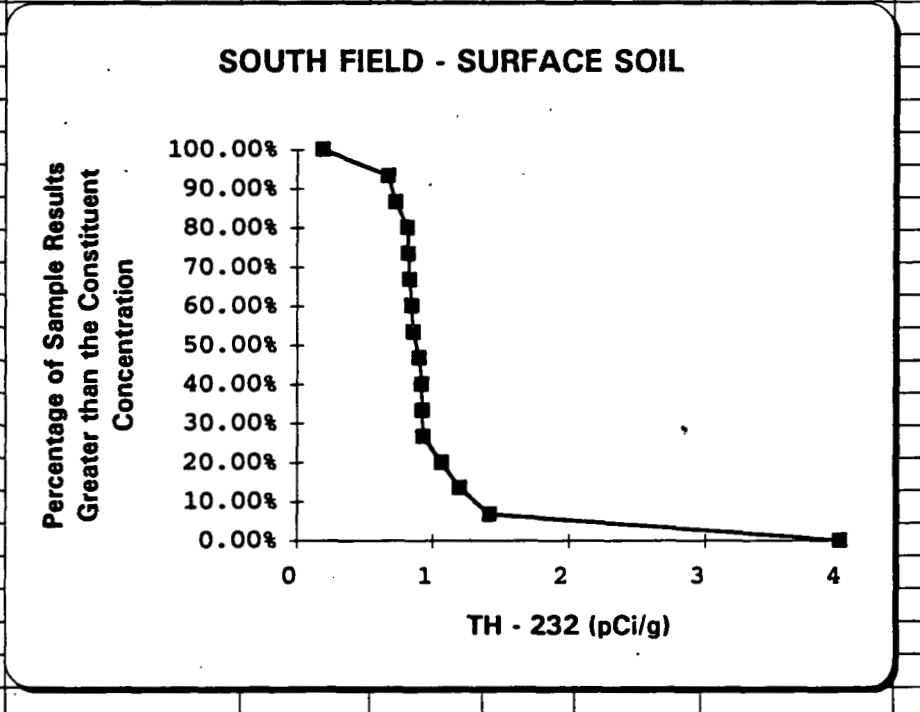

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110321	Uranium, Total		50.6	mg/kg	-	50.6	100.00%
110351	Uranium, Total	1965	49	mg/kg	-	49	95.00%
110355	Uranium, Total	1966	38.1	mg/kg	-	38.1	90.00%
110290	Uranium, Total	SF-SS-20	36.4	mg/kg	-	36.4	85.00%
110317	Uranium, Total		36	mg/kg	-	36	80.00%
110392	Uranium, Total	1968	31.2	mg/kg	-	31.2	75.00%
110297	Uranium, Total	SF-SS-17	28.4	mg/kg	-	28.4	70.00%
110378	Uranium, Total	1972	28.3	mg/kg	-	28.3	65.00%
110372	Uranium, Total	1970	27.4	mg/kg	-	27.4	60.00%
110324	Uranium, Total	1971	25.5	mg/kg	-	25.5	55.00%
110307	Uranium, Total	SF-SS-21	24.5	mg/kg	-	24.5	50.00%
110385	Uranium, Total	1975	23.8	mg/kg	-	23.8	45.00%
110304	Uranium, Total	1977	19	mg/kg	-	19	40.00%
110335	Uranium, Total	1978	18.8	mg/kg	-	18.8	35.00%
110287	Uranium, Total	SF-SS-18	17.2	mg/kg	-	17.2	30.00%
110338	Uranium, Total	1969	16.7	mg/kg	-	16.7	25.00%
110365	Uranium, Total	SF-SS-19	16.3	mg/kg	-	16.3	20.00%
110358	Uranium, Total	1967	12.5	mg/kg	-	12.5	15.00%
110331	Uranium, Total	1964	10.5	mg/kg	-	10.5	10.00%
110340	Uranium, Total	11188	10.4	mg/kg	-	10.4	5.00%
110343	Uranium, Total	SF-SS-16	1.86	mg/kg	-	1.86	0.00%

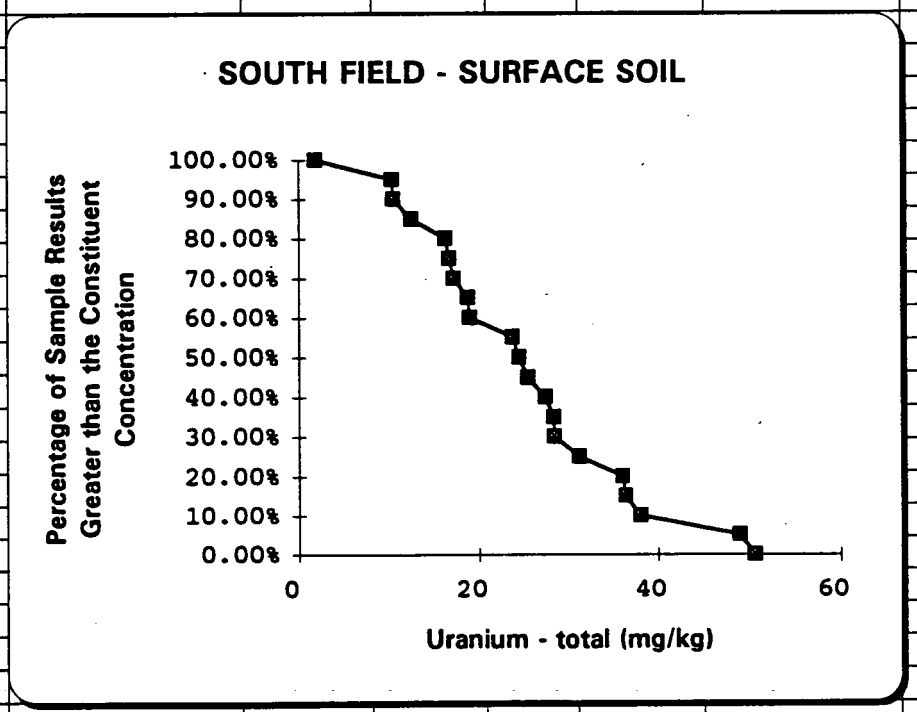

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110351	Uranium-234	1965	16.3	pci/g	-	16.3	100.00%
110321	Uranium-234		13.7	pci/g	-	13.7	95.00%
110290	Uranium-234	SF-SS-20	11.56	pci/g	J	11.56	90.00%
110355	Uranium-234	1966	10	pci/g	-	10	85.00%
110392	Uranium-234	1968	9.71	pci/g	-	9.71	80.00%
110317	Uranium-234		8.01	pci/g	-	8.01	75.00%
110307	Uranium-234	SF-SS-21	7.93	pci/g	J	7.93	70.00%
110372	Uranium-234	1970	7.44	pci/g	-	7.44	65.00%
110385	Uranium-234	1975	6.62	pci/g	-	6.62	60.00%
110343	Uranium-234	SF-SS-16	6.44	pci/g	-	6.44	55.00%
110378	Uranium-234	1972	6.18	pci/g	-	6.18	50.00%
110324	Uranium-234	1971	6.04	pci/g	-	6.04	45.00%
110335	Uranium-234	1978	4.98	pci/g	-	4.98	40.00%
110297	Uranium-234	SF-SS-17	4.94	pci/g	J	4.94	35.00%
110358	Uranium-234	1967	4.46	pci/g	-	4.46	30.00%
110365	Uranium-234	SF-SS-19	4.26	pci/g	-	4.26	25.00%
110338	Uranium-234	1969	3.58	pci/g	-	3.58	20.00%
110331	Uranium-234	1964	3.43	pci/g	-	3.43	15.00%
110304	Uranium-234	1977	3.32	pci/g	-	3.32	10.00%
110340	Uranium-234	11188	3.2	pci/g	-	3.2	5.00%
110287	Uranium-234	SF-SS-18	2.73.	pci/g	J	2.73	0.00%

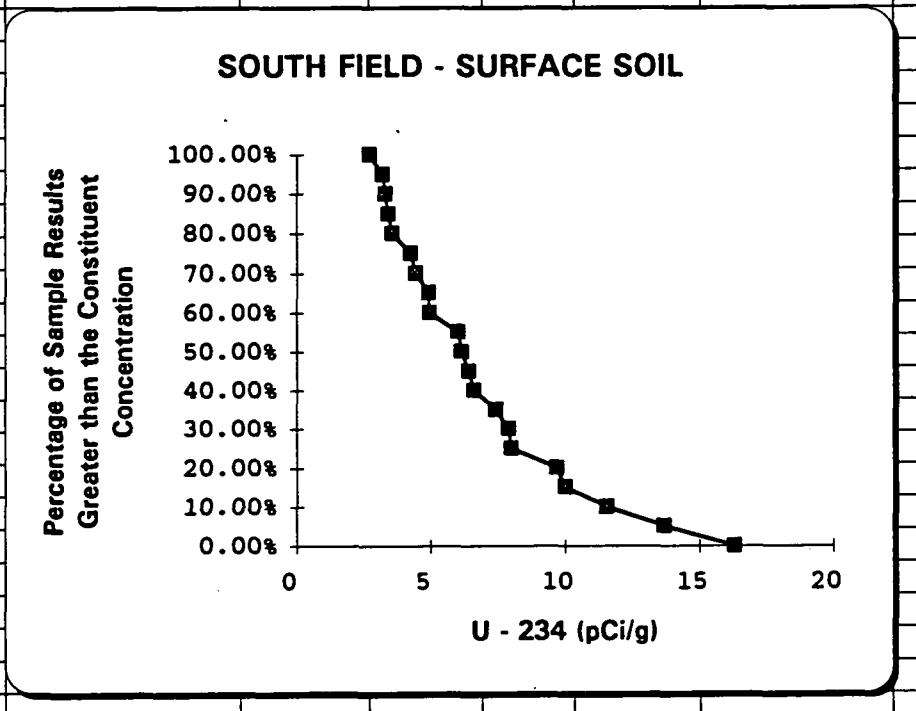

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110351	Uranium-235/236	1965	0.887	pci/g	-	0.887	100.00%
110321	Uranium-235/236		0.771	pci/g	-	0.771	95.00%
110355	Uranium-235/236	1966	0.515	pci/g	-	0.515	90.00%
110290	Uranium-235/236	SF-SS-20	0.47	pci/g	J	0.47	85.00%
110307	Uranium-235/236	SF-SS-21	0.458	pci/g	J	0.458	80.00%
110385	Uranium-235/236	1975	0.35	pci/g	J	0.35	75.00%
110317	Uranium-235/236		0.346	pci/g	J	0.346	70.00%
110324	Uranium-235/236	1971	0.344	pci/g	-	0.344	65.00%
110372	Uranium-235/236	1970	0.315	pci/g	J	0.315	60.00%
110392	Uranium-235/236	1968	0.303	pci/g	J	0.303	55.00%
110378	Uranium-235/236	1972	0.299	pci/g	J	0.299	50.00%
110343	Uranium-235/236	SF-SS-16	0.285	pci/g	J	0.285	45.00%
110297	Uranium-235/236	SF-SS-17	0.258	pci/g	J	0.258	40.00%
110340	Uranium-235/236	11188	0.226	pci/g	J	0.226	35.00%
110335	Uranium-235/236	1978	0.21	pci/g	J	0.21	30.00%
110358	Uranium-235/236	1967	0.198	pci/g	J	0.198	25.00%
110338	Uranium-235/236	1969	0.197	pci/g	J	0.197	20.00%
110304	Uranium-235/236	1977	0.17	pci/g	J	0.17	15.00%
110365	Uranium-235/236	SF-SS-19	0.166	pci/g	J	0.166	10.00%
110331	Uranium-235/236	1964	0.157	pci/g	J	0.157	5.00%
110287	Uranium-235/236	SF-SS-18	0.149	pci/g	J	0.149	0.00%

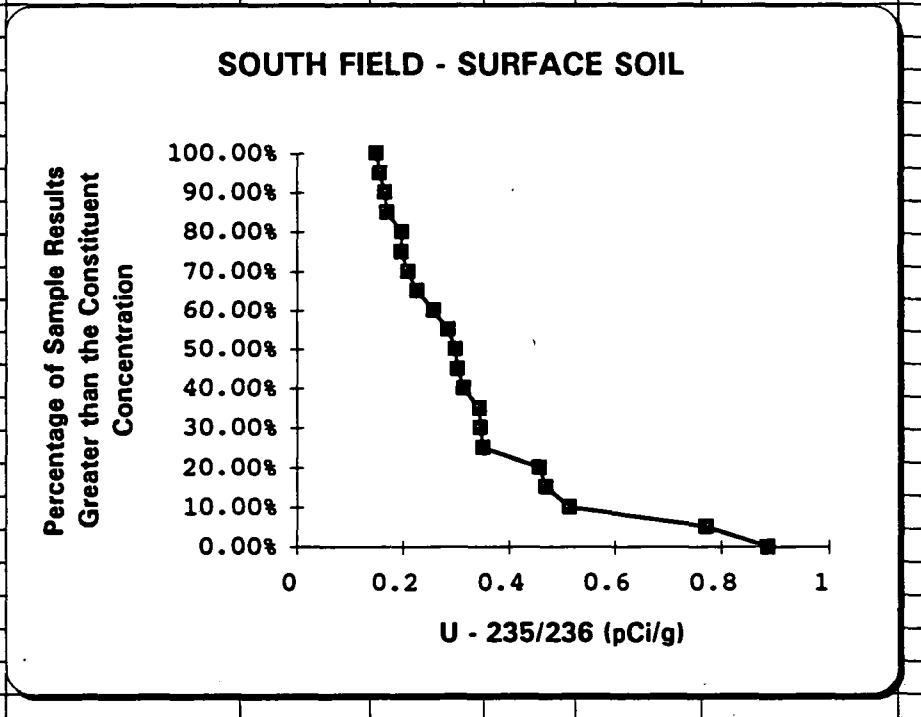

TABLE A.5-13
SOUTH FIELD - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110351	Uranium-238	1965	16.6	pci/g	-	16.6	100.00%
110321	Uranium-238		15.1	pci/g	-	15.1	95.00%
110290	Uranium-238	SF-SS-20	11.68	pci/g	J	11.68	90.00%
110355	Uranium-238	1966	11.3	pci/g	-	11.3	85.00%
110392	Uranium-238	1968	9.84	pci/g	-	9.84	80.00%
110307	Uranium-238	SF-SS-21	9.32	pci/g	J	9.32	75.00%
110317	Uranium-238		9.06	pci/g	-	9.06	70.00%
110372	Uranium-238	1970	7.72	pci/g	-	7.72	65.00%
110385	Uranium-238	1975	6.92	pci/g	-	6.92	60.00%
110378	Uranium-238	1972	6.88	pci/g	-	6.88	55.00%
110343	Uranium-238	SF-SS-16	6.53	pci/g	-	6.53	50.00%
110324	Uranium-238	1971	6.48	pci/g	-	6.48	45.00%
110297	Uranium-238	SF-SS-17	5.99	pci/g	J	5.99	40.00%
110365	Uranium-238	SF-SS-19	5.46	pci/g	-	5.46	35.00%
110335	Uranium-238	1978	5.35	pci/g	-	5.35	30.00%
110358	Uranium-238	1967	4.41	pci/g	-	4.41	25.00%
110304	Uranium-238	1977	4.15	pci/g	-	4.15	20.00%
110338	Uranium-238	1969	3.79	pci/g	-	3.79	15.00%
110340	Uranium-238	11188	3.54	pci/g	-	3.54	10.00%
110331	Uranium-238	1964	3.47	pci/g	-	3.47	5.00%
110287	Uranium-238	SF-SS-18	2.87	pci/g	J	2.87	0.00%

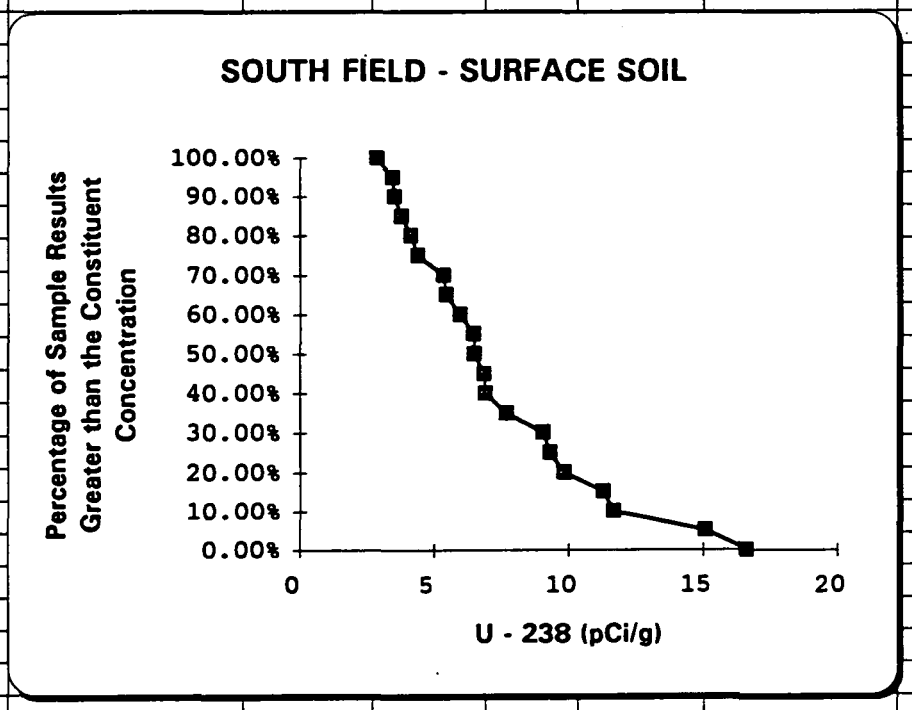

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067333	Aroclor-1254	1793	740	ug/kg	-	740	100.00%
055959	Aroclor-1254	1468	710	ug/kg	J	710	98.48%
055932	Aroclor-1254	1462	690	ug/kg	J	690	96.96%
113722	Aroclor-1254		430	ug/kg	J	430	95.45%
113718	Aroclor-1254		170	ug/kg	J	170	93.93%
110389	Aroclor-1254	1975	140	ug/kg	-	140	92.42%
055906	Aroclor-1254	1456	130	ug/kg	J	130	90.90%
067324	Aroclor-1254	1794	210	ug/kg	U	105	89.39%
067350	Aroclor-1254	1792	100	ug/kg	J	100	86.36%
067356	Aroclor-1254	1792	200	ug/kg	U	100	86.36%
067328	Aroclor-1254	1794	190	ug/kg	U	95	78.78%
067353	Aroclor-1254	1792	190	ug/kg	U	95	78.78%
067367	Aroclor-1254	1795	190	ug/kg	U	95	78.78%
067370	Aroclor-1254	1795	190	ug/kg	U	95	78.78%
055945	Aroclor-1254	1465	190	ug/kg	UJ	95	78.78%
067343	Aroclor-1254	1792	180	ug/kg	U	90	75.75%
055972	Aroclor-1254	1471	180	ug/kg	U	90	75.75%
110304	Aroclor-1254	1977	89	ug/kg	-	89	74.24%
112520	Aroclor-1254	11187	86	ug/kg	J	86	72.72%
110382	Aroclor-1254	1972	85	ug/kg	-	85	69.69%
112696	Aroclor-1254	1967	85	ug/kg	-	85	69.69%
110413	Aroclor-1254	11186	82	ug/kg	-	82	68.18%
110415	Aroclor-1254	11187	58	ug/kg	J	58	66.66%
110339	Aroclor-1254	1969	54	ug/kg	-	54	65.15%
110406	Aroclor-1254	1978	47	ug/kg	-	47	63.63%
112737	Aroclor-1254	1965	43	ug/kg	-	43	62.12%
112545	Aroclor-1254	1975	41	ug/kg	-	41	60.60%
067346	Aroclor-1254	1792	32	ug/kg	J	32	59.09%
110338	Aroclor-1254	1969	50	ug/kg	U	25	57.57%
110351	Aroclor-1254	1965	48	ug/kg	U	24	56.06%
110355	Aroclor-1254	1966	46	ug/kg	U	23	54.54%
110307	Aroclor-1254	SF-SS-21	45	ug/kg	U	22.5	51.51%
110372	Aroclor-1254	1970	45	ug/kg	U	22.5	51.51%
110335	Aroclor-1254	1978	44	ug/kg	U	22	50.00%
110317	Aroclor-1254		43	ug/kg	U	21.5	37.87%
110340	Aroclor-1254	11188	43	ug/kg	U	21.5	37.87%
110331	Aroclor-1254	1964	43	ug/kg	U	21.5	37.87%
110358	Aroclor-1254	1967	43	ug/kg	U	21.5	37.87%
110392	Aroclor-1254	1968	43	ug/kg	U	21.5	37.87%
110343	Aroclor-1254	SF-SS-16	43	ug/kg	U	21.5	37.87%
110405	Aroclor-1254	1966	43	ug/kg	U	21.5	37.87%
112893	Aroclor-1254	1970	43	ug/kg	U	21.5	37.87%
110297	Aroclor-1254	SF-SS-17	42	ug/kg	U	21	27.27%
110290	Aroclor-1254	SF-SS-20	42	ug/kg	U	21	27.27%
110369	Aroclor-1254	SF-SS-19	42	ug/kg	U	21	27.27%
112536	Aroclor-1254	1971	42	ug/kg	U	21	27.27%
112859	Aroclor-1254	1966	42	ug/kg	U	21	27.27%
112507	Aroclor-1254	11186	42	ug/kg	U	21	27.27%
112559	Aroclor-1254	1969	42	ug/kg	U	21	27.27%
110378	Aroclor-1254	1972	41	ug/kg	U	20.5	10.60%
110321	Aroclor-1254		41	ug/kg	U	20.5	10.60%
110324	Aroclor-1254	1971	41	ug/kg	U	20.5	10.60%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110385	Aroclor-1254	1975	41	ug/kg	U	20.5	10.60%
110365	Aroclor-1254	SF-SS-19	41	ug/kg	U	20.5	10.60%
110362	Aroclor-1254	1967	41	ug/kg	U	20.5	10.60%
110327	Aroclor-1254	1971	41	ug/kg	U	20.5	10.60%
110571	Aroclor-1254	1977	41	ug/kg	U	20.5	10.60%
112648	Aroclor-1254	1964	41	ug/kg	U	20.5	10.60%
112690	Aroclor-1254	1970	41	ug/kg	U	20.5	10.60%
110579	Aroclor-1254	1977	41	ug/kg	U	20.5	10.60%
110396	Aroclor-1254	1968	40	ug/kg	U	20	4.54%
110584	Aroclor-1254	1972	40	ug/kg	U	20	4.54%
112494	Aroclor-1254	1972	40	ug/kg	U	20	4.54%
112731	Aroclor-1254	1967	40	ug/kg	U	20	4.54%
110287	Aroclor-1254	SF-SS-18	39	ug/kg	U	19.5	0.00%
110547	Aroclor-1254	11188	39	ug/kg	U	19.5	0.00%
112835	Aroclor-1254	1968	39	ug/kg	U	19.5	0.00%

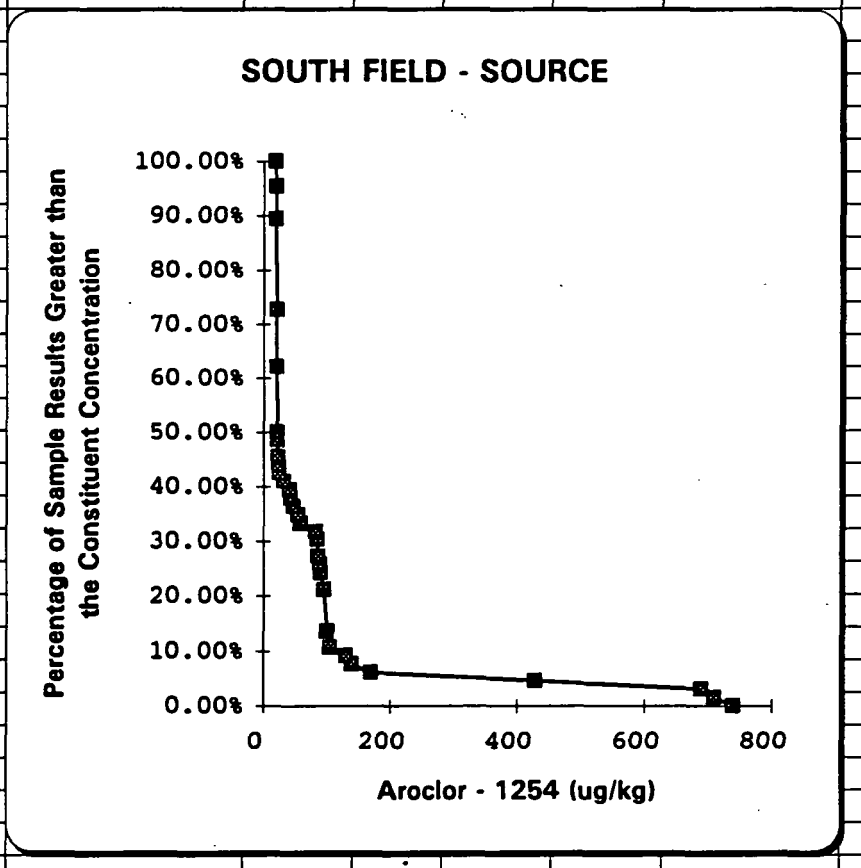

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055932	Aroclor-1260	1462	1800	ug/kg	U	900	98.48%
055959	Aroclor-1260	1468	1800	ug/kg	U	900	98.48%
067324	Aroclor-1260	1794	210	ug/kg	U	105	96.96%
067356	Aroclor-1260	1792	200	ug/kg	U	100	95.45%
067328	Aroclor-1260	1794	190	ug/kg	U	95	84.84%
067333	Aroclor-1260	1793	190	ug/kg	U	95	84.84%
067350	Aroclor-1260	1792	190	ug/kg	U	95	84.84%
067353	Aroclor-1260	1792	190	ug/kg	U	95	84.84%
067367	Aroclor-1260	1795	190	ug/kg	U	95	84.84%
067370	Aroclor-1260	1795	190	ug/kg	U	95	84.84%
055945	Aroclor-1260	1465	190	ug/kg	UJ	95	84.84%
067343	Aroclor-1260	1792	180	ug/kg	U	90	80.30%
067346	Aroclor-1260	1792	180	ug/kg	U	90	80.30%
055972	Aroclor-1260	1471	180	ug/kg	U	90	80.30%
110369	Aroclor-1260	SF-SS-19	89	ug/kg	J	89	78.78%
055906	Aroclor-1260	1456	150	ug/kg	UJ	75	77.27%
110365	Aroclor-1260	SF-SS-19	52	ug/kg	-	52	75.75%
110287	Aroclor-1260	SF-SS-18	38	ug/kg	J	38	74.24%
110338	Aroclor-1260	1969	50	ug/kg	U	25	72.72%
110351	Aroclor-1260	1965	48	ug/kg	U	24	71.21%
110355	Aroclor-1260	1966	46	ug/kg	U	23	69.69%
110307	Aroclor-1260	SF-SS-21	45	ug/kg	U	22.5	65.15%
110372	Aroclor-1260	1970	45	ug/kg	U	22.5	65.15%
110339	Aroclor-1260	1969	45	ug/kg	U	22.5	65.15%
110335	Aroclor-1260	1978	44	ug/kg	U	22	63.63%
110317	Aroclor-1260		43	ug/kg	U	21.5	51.51%
110340	Aroclor-1260	11188	43	ug/kg	U	21.5	51.51%
110331	Aroclor-1260	1964	43	ug/kg	U	21.5	51.51%
110358	Aroclor-1260	1967	43	ug/kg	U	21.5	51.51%
110392	Aroclor-1260	1968	43	ug/kg	U	21.5	51.51%
110343	Aroclor-1260	SF-SS-16	43	ug/kg	U	21.5	51.51%
110405	Aroclor-1260	1966	43	ug/kg	U	21.5	51.51%
112893	Aroclor-1260	1970	43	ug/kg	U	21.5	51.51%
110297	Aroclor-1260	SF-SS-17	42	ug/kg	U	21	40.90%
110290	Aroclor-1260	SF-SS-20	42	ug/kg	U	21	40.90%
112536	Aroclor-1260	1971	42	ug/kg	U	21	40.90%
112859	Aroclor-1260	1966	42	ug/kg	U	21	40.90%
113722	Aroclor-1260		42	ug/kg	U	21	40.90%
112507	Aroclor-1260	11186	42	ug/kg	U	21	40.90%
112559	Aroclor-1260	1969	42	ug/kg	U	21	40.90%
110378	Aroclor-1260	1972	41	ug/kg	U	20.5	22.72%
110321	Aroclor-1260		41	ug/kg	U	20.5	22.72%
110324	Aroclor-1260	1971	41	ug/kg	U	20.5	22.72%
110385	Aroclor-1260	1975	41	ug/kg	U	20.5	22.72%
110362	Aroclor-1260	1967	41	ug/kg	U	20.5	22.72%
110327	Aroclor-1260	1971	41	ug/kg	U	20.5	22.72%
110389	Aroclor-1260	1975	41	ug/kg	U	20.5	22.72%
110571	Aroclor-1260	1977	41	ug/kg	U	20.5	22.72%
112648	Aroclor-1260	1964	41	ug/kg	U	20.5	22.72%
112690	Aroclor-1260	1970	41	ug/kg	U	20.5	22.72%
110579	Aroclor-1260	1977	41	ug/kg	U	20.5	22.72%
112545	Aroclor-1260	1975	41	ug/kg	U	20.5	22.72%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110304	Aroclor-1260	1977	40	ug/kg	U	20	7.57%
110382	Aroclor-1260	1972	40	ug/kg	U	20	7.57%
110396	Aroclor-1260	1968	40	ug/kg	U	20	7.57%
110415	Aroclor-1260	11187	40	ug/kg	U	20	7.57%
110406	Aroclor-1260	1978	40	ug/kg	U	20	7.57%
110584	Aroclor-1260	1972	40	ug/kg	U	20	7.57%
112520	Aroclor-1260	11187	40	ug/kg	U	20	7.57%
112696	Aroclor-1260	1967	40	ug/kg	U	20	7.57%
112494	Aroclor-1260	1972	40	ug/kg	U	20	7.57%
112731	Aroclor-1260	1967	40	ug/kg	U	20	7.57%
110413	Aroclor-1260	11186	39	ug/kg	U	19.5	3.03%
110547	Aroclor-1260	11188	39	ug/kg	U	19.5	3.03%
112835	Aroclor-1260	1968	39	ug/kg	U	19.5	3.03%
112737	Aroclor-1260	1965	37	ug/kg	U	18.5	0.00%
113718	Aroclor-1260		37	ug/kg	UJ	18.5	0.00%

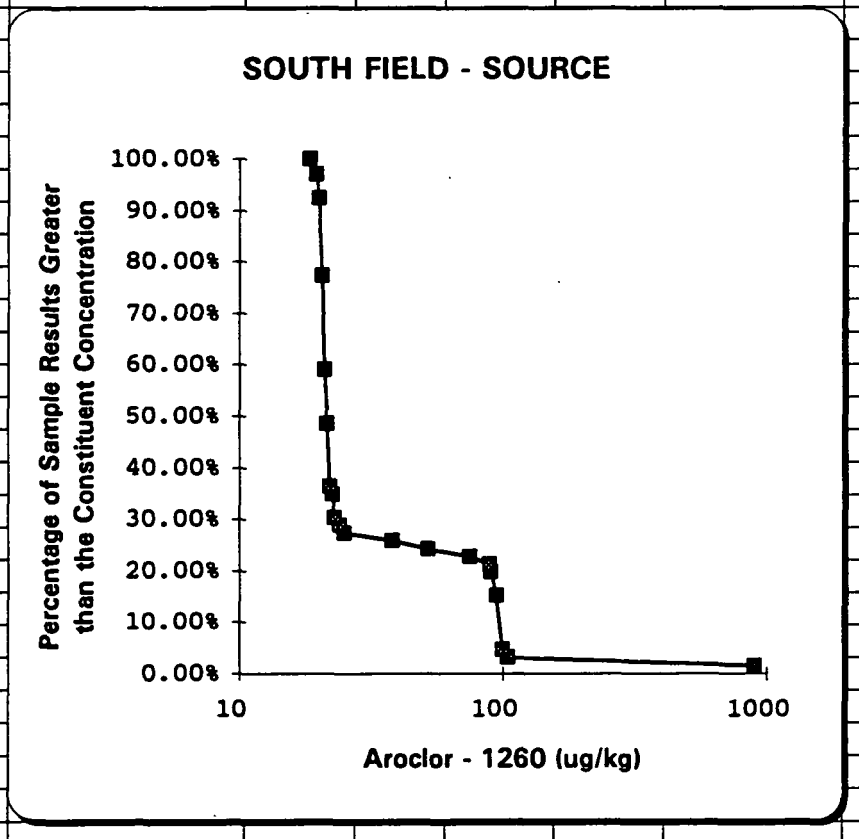

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110382	Arsenic	1972	14.1	mg/kg	-	14.1	100.00%
112545	Arsenic	1975	11.9	mg/kg	-	11.9	98.48%
110584	Arsenic	1972	10.2	mg/kg	J	10.2	96.96%
110413	Arsenic	11186	9.8	mg/kg	-	9.8	95.45%
110307	Arsenic	SF-SS-21	9.3	mg/kg	-	9.3	93.93%
110338	Arsenic	1969	9.1	mg/kg	-	9.1	90.90%
110339	Arsenic	1969	9.1	mg/kg	-	9.1	90.90%
112536	Arsenic	1971	8.9	mg/kg	-	8.9	89.39%
110358	Arsenic	1967	8.4	mg/kg	-	8.4	87.87%
112507	Arsenic	11186	8.3	mg/kg	-	8.3	86.36%
055906	Arsenic	1456	8.1	mg/kg	-	8.1	84.84%
110331	Arsenic	1964	7.9	mg/kg	-	7.9	83.33%
110317	Arsenic		7.8	mg/kg	-	7.8	81.81%
110372	Arsenic	1970	7.7	mg/kg	-	7.7	78.78%
113722	Arsenic		7.7	mg/kg	-	7.7	78.78%
110362	Arsenic	1967	7.6	mg/kg	-	7.6	74.24%
110406	Arsenic	1978	7.6	mg/kg	J	7.6	74.24%
067343	Arsenic	1792	7.6	mg/kg	-	7.6	74.24%
110340	Arsenic	11188	7.5	mg/kg	-	7.5	71.21%
112737	Arsenic	1965	7.5	mg/kg	-	7.5	71.21%
110355	Arsenic	1966	7.3	mg/kg	-	7.3	69.69%
110547	Arsenic	11188	7.2	mg/kg	-	7.2	68.18%
112690	Arsenic	1970	7.1	mg/kg	-	7.1	65.15%
112893	Arsenic	1970	7.1	mg/kg	-	7.1	65.15%
110378	Arsenic	1972	7	mg/kg	-	7	59.09%
110385	Arsenic	1975	7	mg/kg	-	7	59.09%
110405	Arsenic	1966	7	mg/kg	J	7	59.09%
055972	Arsenic	1471	7	mg/kg	-	7	59.09%
067370	Arsenic	1795	6.9	mg/kg	-	6.9	57.57%
110304	Arsenic	1977	6.8	mg/kg	-	6.8	54.54%
112696	Arsenic	1967	6.8	mg/kg	-	6.8	54.54%
113718	Arsenic		6.7	mg/kg	-	6.7	53.03%
110290	Arsenic	SF-SS-20	6.5	mg/kg	-	6.5	51.51%
055959	Arsenic	1468	6.3	mg/kg	-	6.3	50.00%
110335	Arsenic	1978	6.1	mg/kg	-	6.1	46.96%
067324	Arsenic	1794	6.1	mg/kg	-	6.1	46.96%
110343	Arsenic	SF-SS-16	5.9	mg/kg	-	5.9	43.93%
055932	Arsenic	1462	5.9	mg/kg	-	5.9	43.93%
055945	Arsenic	1465	5.8	mg/kg	-	5.8	42.42%
110415	Arsenic	11187	5.7	mg/kg	-	5.7	40.90%
110297	Arsenic	SF-SS-17	5.5	mg/kg	-	5.5	33.33%
110392	Arsenic	1968	5.5	mg/kg	J	5.5	33.33%
110389	Arsenic	1975	5.5	mg/kg	-	5.5	33.33%
112520	Arsenic	11187	5.5	mg/kg	-	5.5	33.33%
112648	Arsenic	1964	5.5	mg/kg	J	5.5	33.33%
112859	Arsenic	1966	5.3	mg/kg	-	5.3	31.81%
110287	Arsenic	SF-SS-18	5.2	mg/kg	J	5.2	27.27%
110324	Arsenic	1971	5.2	mg/kg	-	5.2	27.27%
110571	Arsenic	1977	5.2	mg/kg	-	5.2	27.27%
112559	Arsenic	1969	5.1	mg/kg	-	5.1	25.75%
110321	Arsenic		4.9	mg/kg	-	4.9	21.21%
110351	Arsenic	1965	4.9	mg/kg	-	4.9	21.21%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110327	Arsenic	1971	4.9	mg/kg	-	4.9	21.21%
067356	Arsenic	1792	4.7	mg/kg	-	4.7	19.69%
110365	Arsenic	SF-SS-19	4.6	mg/kg	-	4.6	18.18%
067353	Arsenic	1792	4.5	mg/kg	-	4.5	16.66%
110369	Arsenic	SF-SS-19	4.4	mg/kg	-	4.4	15.15%
067328	Arsenic	1794	4.3	mg/kg	-	4.3	13.63%
067346	Arsenic	1792	4.2	mg/kg	-	4.2	12.12%
067367	Arsenic	1795	4	mg/kg	-	4	9.09%
112494	Arsenic	1972	4	mg/kg	-	4	9.09%
067350	Arsenic	1792	3.9	mg/kg	-	3.9	7.57%
112835	Arsenic	1968	3.7	mg/kg	-	3.7	6.06%
067333	Arsenic	1793	2.9	mg/kg	-	2.9	4.54%
110396	Arsenic	1968	2.8	mg/kg	-	2.8	3.03%
112731	Arsenic	1967	2.5	mg/kg	-	2.5	1.51%
110579	Arsenic	1977	1.5	mg/kg	-	1.5	0.00%

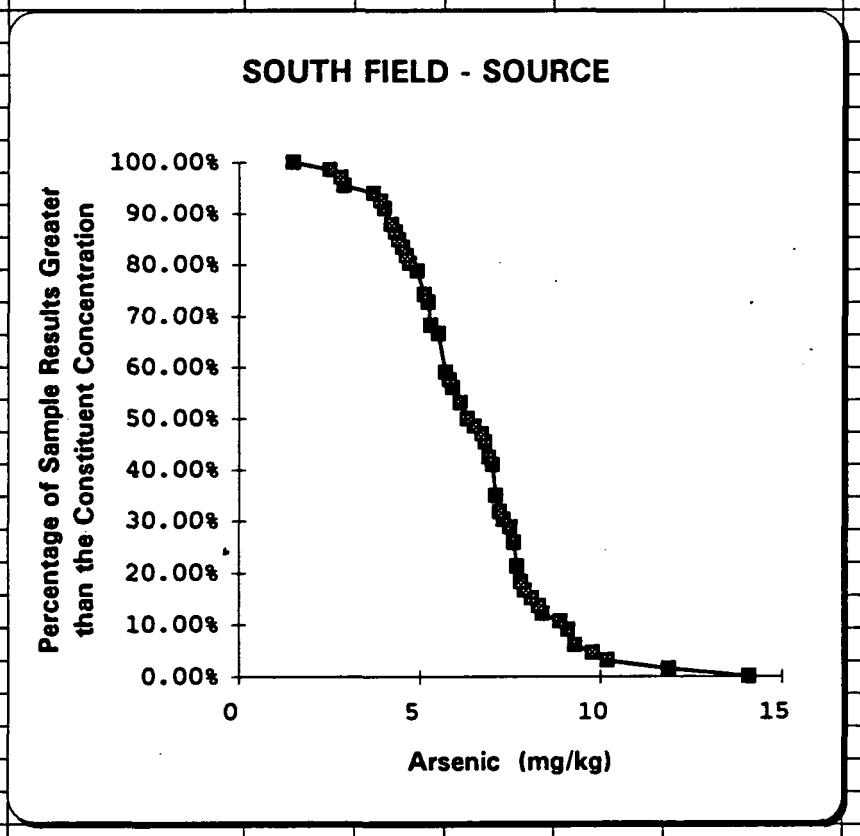

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110378	Benzo(a)anthracene	1972	5500	ug/kg	-	5500	100.00%
110297	Benzo(a)anthracene	SF-SS-17	2500	ug/kg	-	2500	98.33%
110382	Benzo(a)anthracene	1972	1100	ug/kg	-	1100	96.66%
110304	Benzo(a)anthracene	1977	630	ug/kg	-	630	95.00%
110287	Benzo(a)anthracene	SF-SS-18	530	ug/kg	-	530	93.33%
067367	Benzo(a)anthracene	1795	270	ug/kg	J	270	91.66%
110317	Benzo(a)anthracene		250	ug/kg	J	250	88.33%
110338	Benzo(a)anthracene	1969	500	ug/kg	U	250	88.33%
110351	Benzo(a)anthracene	1965	480	ug/kg	U	240	86.66%
110355	Benzo(a)anthracene	1966	460	ug/kg	U	230	85.00%
110307	Benzo(a)anthracene	SF-SS-21	450	ug/kg	U	225	83.33%
110335	Benzo(a)anthracene	1978	440	ug/kg	U	220	80.00%
110339	Benzo(a)anthracene	1969	440	ug/kg	U	220	80.00%
110331	Benzo(a)anthracene	1964	430	ug/kg	U	215	71.66%
110358	Benzo(a)anthracene	1967	430	ug/kg	U	215	71.66%
110405	Benzo(a)anthracene	1966	430	ug/kg	U	215	71.66%
112893	Benzo(a)anthracene	1970	430	ug/kg	U	215	71.66%
112507	Benzo(a)anthracene	11186	430	ug/kg	U	215	71.66%
112536	Benzo(a)anthracene	1971	420	ug/kg	U	210	65.00%
112648	Benzo(a)anthracene	1964	420	ug/kg	U	210	65.00%
112859	Benzo(a)anthracene	1966	420	ug/kg	U	210	65.00%
112559	Benzo(a)anthracene	1969	420	ug/kg	U	210	65.00%
110321	Benzo(a)anthracene		410	ug/kg	U	205	51.66%
110385	Benzo(a)anthracene	1975	410	ug/kg	U	205	51.66%
110362	Benzo(a)anthracene	1967	410	ug/kg	U	205	51.66%
110327	Benzo(a)anthracene	1971	410	ug/kg	U	205	51.66%
110389	Benzo(a)anthracene	1975	410	ug/kg	U	205	51.66%
110571	Benzo(a)anthracene	1977	410	ug/kg	U	205	51.66%
112520	Benzo(a)anthracene	11187	410	ug/kg	U	205	51.66%
112494	Benzo(a)anthracene	1972	410	ug/kg	U	205	51.66%
110415	Benzo(a)anthracene	11187	400	ug/kg	U	200	40.00%
110406	Benzo(a)anthracene	1978	400	ug/kg	U	200	40.00%
112690	Benzo(a)anthracene	1970	400	ug/kg	U	200	40.00%
112835	Benzo(a)anthracene	1968	400	ug/kg	U	200	40.00%
055945	Benzo(a)anthracene	1465	400	ug/kg	U	200	40.00%
112545	Benzo(a)anthracene	1975	400	ug/kg	U	200	40.00%
112731	Benzo(a)anthracene	1967	400	ug/kg	U	200	40.00%
110547	Benzo(a)anthracene	11188	390	ug/kg	UJ	195	35.00%
110584	Benzo(a)anthracene	1972	390	ug/kg	U	195	35.00%
112696	Benzo(a)anthracene	1967	390	ug/kg	U	195	35.00%
067370	Benzo(a)anthracene	1795	380	ug/kg	U	190	28.33%
055959	Benzo(a)anthracene	1468	380	ug/kg	U	190	28.33%
055972	Benzo(a)anthracene	1471	380	ug/kg	U	190	28.33%
110579	Benzo(a)anthracene	1977	380	ug/kg	U	190	28.33%
112737	Benzo(a)anthracene	1965	370	ug/kg	U	185	25.00%
055906	Benzo(a)anthracene	1456	370	ug/kg	U	185	25.00%
110340	Benzo(a)anthracene	11188	180	ug/kg	J	180	21.66%
067333	Benzo(a)anthracene	1793	360	ug/kg	U	180	21.66%
110343	Benzo(a)anthracene	SF-SS-16	160	ug/kg	J	160	20.00%
055932	Benzo(a)anthracene	1462	130	ug/kg	J	130	18.33%
067324	Benzo(a)anthracene	1794	100	ug/kg	J	100	16.66%
110369	Benzo(a)anthracene	SF-SS-19	97	ug/kg	J	97	15.00%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067328	Benzo(a)anthracene	1794	78	ug/kg	J	78	13.33%
113718	Benzo(a)anthracene		60	ug/kg	J	60	11.66%
110372	Benzo(a)anthracene	1970	58	ug/kg	J	58	10.00%
110413	Benzo(a)anthracene	11186	57	ug/kg	J	57	8.33%
110365	Benzo(a)anthracene	SF-SS-19	54	ug/kg	J	54	6.66%
110392	Benzo(a)anthracene	1968	51	ug/kg	J	51	5.00%
110290	Benzo(a)anthracene	SF-SS-20	46	ug/kg	J	46	3.33%
110324	Benzo(a)anthracene	1971	44	ug/kg	J	44	0.00%
110396	Benzo(a)anthracene	1968	44	ug/kg	J	44	0.00%

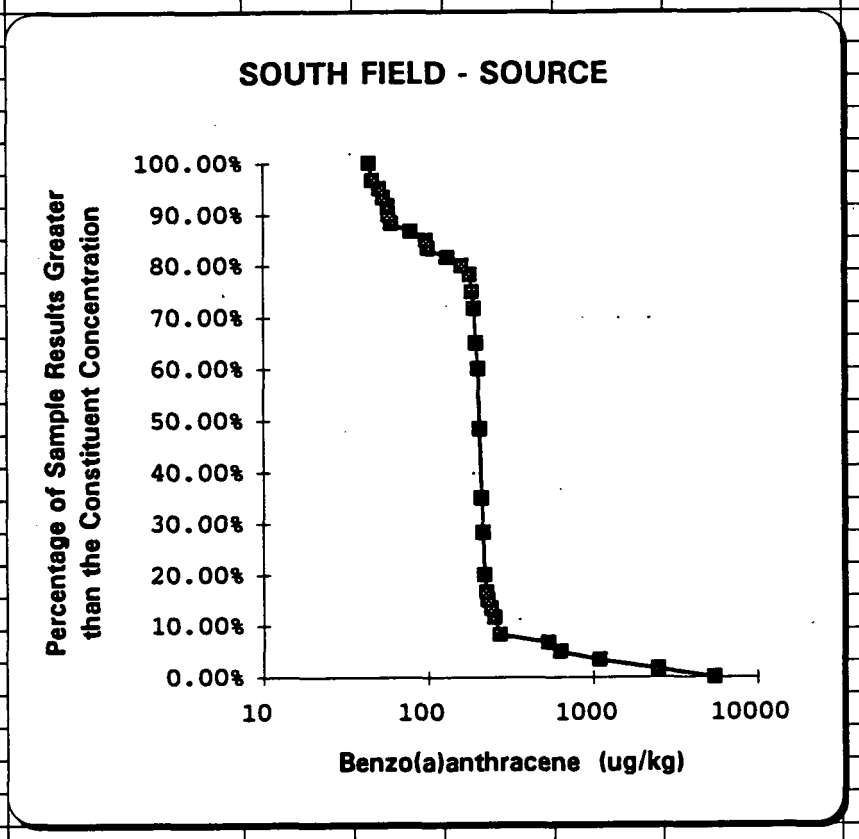

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110378	Benzo(a)pyrene	1972	9400	ug/kg	-	9400	100.00%
110297	Benzo(a)pyrene	SF-SS-17	4700	ug/kg	-	4700	98.30%
110382	Benzo(a)pyrene	1972	1800	ug/kg	-	1800	96.61%
110304	Benzo(a)pyrene	1977	800	ug/kg	-	800	94.91%
110287	Benzo(a)pyrene	SF-SS-18	750	ug/kg	-	750	93.22%
110340	Benzo(a)pyrene	11188	280	ug/kg	J	280	91.52%
110317	Benzo(a)pyrene		270	ug/kg	J	270	89.83%
110338	Benzo(a)pyrene	1969	500	ug/kg	U	250	88.13%
110351	Benzo(a)pyrene	1965	480	ug/kg	U	240	86.44%
110355	Benzo(a)pyrene	1966	460	ug/kg	U	230	84.74%
110307	Benzo(a)pyrene	SF-SS-21	450	ug/kg	U	225	83.05%
110335	Benzo(a)pyrene	1978	440	ug/kg	U	220	79.66%
110339	Benzo(a)pyrene	1969	440	ug/kg	U	220	79.66%
110331	Benzo(a)pyrene	1964	430	ug/kg	U	215	72.88%
110358	Benzo(a)pyrene	1967	430	ug/kg	U	215	72.88%
112893	Benzo(a)pyrene	1970	430	ug/kg	U	215	72.88%
112507	Benzo(a)pyrene	11186	430	ug/kg	U	215	72.88%
110324	Benzo(a)pyrene	1971	420	ug/kg	U	210	64.40%
112536	Benzo(a)pyrene	1971	420	ug/kg	U	210	64.40%
112648	Benzo(a)pyrene	1964	420	ug/kg	U	210	64.40%
112859	Benzo(a)pyrene	1966	420	ug/kg	U	210	64.40%
112559	Benzo(a)pyrene	1969	420	ug/kg	U	210	64.40%
110385	Benzo(a)pyrene	1975	410	ug/kg	U	205	52.54%
110362	Benzo(a)pyrene	1967	410	ug/kg	U	205	52.54%
110327	Benzo(a)pyrene	1971	410	ug/kg	U	205	52.54%
110389	Benzo(a)pyrene	1975	410	ug/kg	U	205	52.54%
110571	Benzo(a)pyrene	1977	410	ug/kg	U	205	52.54%
112520	Benzo(a)pyrene	11187	410	ug/kg	U	205	52.54%
112494	Benzo(a)pyrene	1972	410	ug/kg	U	205	52.54%
110396	Benzo(a)pyrene	1968	400	ug/kg	U	200	42.37%
112690	Benzo(a)pyrene	1970	400	ug/kg	U	200	42.37%
112835	Benzo(a)pyrene	1968	400	ug/kg	U	200	42.37%
055945	Benzo(a)pyrene	1465	400	ug/kg	U	200	42.37%
112545	Benzo(a)pyrene	1975	400	ug/kg	U	200	42.37%
112731	Benzo(a)pyrene	1967	400	ug/kg	U	200	42.37%
110547	Benzo(a)pyrene	11188	390	ug/kg	UJ	195	35.59%
110584	Benzo(a)pyrene	1972	390	ug/kg	U	195	35.59%
112696	Benzo(a)pyrene	1967	390	ug/kg	U	195	35.59%
067328	Benzo(a)pyrene	1794	390	ug/kg	U	195	35.59%
067370	Benzo(a)pyrene	1795	380	ug/kg	U	190	27.11%
055932	Benzo(a)pyrene	1462	380	ug/kg	U	190	27.11%
055959	Benzo(a)pyrene	1468	380	ug/kg	U	190	27.11%
055972	Benzo(a)pyrene	1471	380	ug/kg	U	190	27.11%
110579	Benzo(a)pyrene	1977	380	ug/kg	U	190	27.11%
112737	Benzo(a)pyrene	1965	370	ug/kg	U	185	23.72%
055906	Benzo(a)pyrene	1456	370	ug/kg	U	185	23.72%
067333	Benzo(a)pyrene	1793	360	ug/kg	U	180	22.03%
110343	Benzo(a)pyrene	SF-SS-16	170	ug/kg	J	170	20.33%
067367	Benzo(a)pyrene	1795	120	ug/kg	J	120	18.64%
110369	Benzo(a)pyrene	SF-SS-19	110	ug/kg	J	110	16.94%
110290	Benzo(a)pyrene	SF-SS-20	79	ug/kg	J	79	15.25%
110372	Benzo(a)pyrene	1970	67	ug/kg	J	67	13.55%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110365	Benzo(a)pyrene	SF-SS-19	59	ug/kg	J	59	10.16%
113718	Benzo(a)pyrene		59	ug/kg	J	59	10.16%
110392	Benzo(a)pyrene	1968	55	ug/kg	J	55	8.47%
110321	Benzo(a)pyrene		51	ug/kg	J	51	5.08%
110413	Benzo(a)pyrene	11186	51	ug/kg	J	51	5.08%
067324	Benzo(a)pyrene	1794	46	ug/kg	J	46	3.38%
110415	Benzo(a)pyrene	11187	41	ug/kg	J	41	1.69%
110406	Benzo(a)pyrene	1978	3	ug/kg	J	3	0.00%

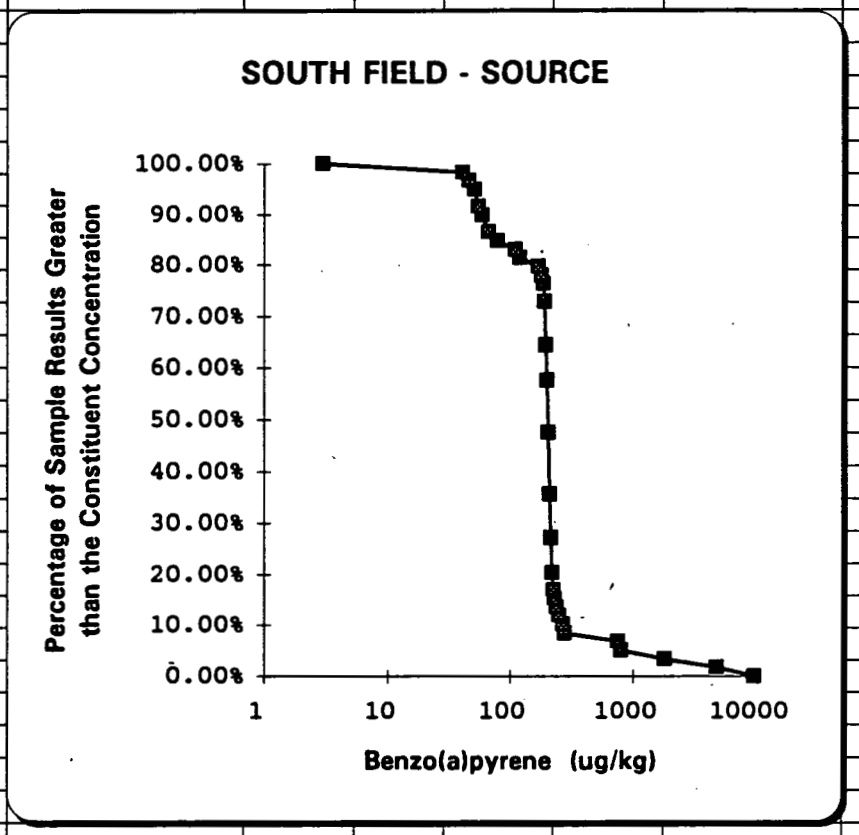

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110378	Benzo(b)fluoranthene	1972	6200	ug/kg	-	6200	100.00%
110297	Benzo(b)fluoranthene	SF-SS-17	3900	ug/kg	-	3900	98.30%
110382	Benzo(b)fluoranthene	1972	1600	ug/kg	-	1600	96.61%
110287	Benzo(b)fluoranthene	SF-SS-18	700	ug/kg	-	700	94.91%
110304	Benzo(b)fluoranthene	1977	670	ug/kg	-	670	93.22%
067367	Benzo(b)fluoranthene	1795	360	ug/kg	J	360	91.52%
110338	Benzo(b)fluoranthene	1969	500	ug/kg	U	250	89.83%
110317	Benzo(b)fluoranthene		240	ug/kg	J	240	84.74%
110340	Benzo(b)fluoranthene	11188	240	ug/kg	J	240	84.74%
110351	Benzo(b)fluoranthene	1965	480	ug/kg	U	240	84.74%
110355	Benzo(b)fluoranthene	1966	460	ug/kg	U	230	83.05%
110307	Benzo(b)fluoranthene	SF-SS-21	450	ug/kg	U	225	81.35%
110335	Benzo(b)fluoranthene	1978	440	ug/kg	U	220	77.96%
110339	Benzo(b)fluoranthene	1969	440	ug/kg	U	220	77.96%
110331	Benzo(b)fluoranthene	1964	430	ug/kg	U	215	71.18%
110358	Benzo(b)fluoranthene	1967	430	ug/kg	U	215	71.18%
112893	Benzo(b)fluoranthene	1970	430	ug/kg	U	215	71.18%
112507	Benzo(b)fluoranthene	11186	430	ug/kg	U	215	71.18%
110324	Benzo(b)fluoranthene	1971	420	ug/kg	U	210	62.71%
112536	Benzo(b)fluoranthene	1971	420	ug/kg	U	210	62.71%
112648	Benzo(b)fluoranthene	1964	420	ug/kg	U	210	62.71%
112859	Benzo(b)fluoranthene	1966	420	ug/kg	U	210	62.71%
112559	Benzo(b)fluoranthene	1969	420	ug/kg	U	210	62.71%
110385	Benzo(b)fluoranthene	1975	410	ug/kg	U	205	50.84%
110362	Benzo(b)fluoranthene	1967	410	ug/kg	U	205	50.84%
110327	Benzo(b)fluoranthene	1971	410	ug/kg	U	205	50.84%
110389	Benzo(b)fluoranthene	1975	410	ug/kg	U	205	50.84%
110571	Benzo(b)fluoranthene	1977	410	ug/kg	U	205	50.84%
112520	Benzo(b)fluoranthene	11187	410	ug/kg	U	205	50.84%
112494	Benzo(b)fluoranthene	1972	410	ug/kg	U	205	50.84%
110415	Benzo(b)fluoranthene	11187	400	ug/kg	U	200	38.98%
110406	Benzo(b)fluoranthene	1978	400	ug/kg	U	200	38.98%
112690	Benzo(b)fluoranthene	1970	400	ug/kg	U	200	38.98%
112835	Benzo(b)fluoranthene	1968	400	ug/kg	U	200	38.98%
055945	Benzo(b)fluoranthene	1465	400	ug/kg	U	200	38.98%
112545	Benzo(b)fluoranthene	1975	400	ug/kg	U	200	38.98%
112731	Benzo(b)fluoranthene	1967	400	ug/kg	U	200	38.98%
110413	Benzo(b)fluoranthene	11186	390	ug/kg	U	195	32.20%
110547	Benzo(b)fluoranthene	11188	390	ug/kg	UJ	195	32.20%
110584	Benzo(b)fluoranthene	1972	390	ug/kg	U	195	32.20%
112696	Benzo(b)fluoranthene	1967	390	ug/kg	U	195	32.20%
067370	Benzo(b)fluoranthene	1795	380	ug/kg	U	190	25.42%
055959	Benzo(b)fluoranthene	1468	380	ug/kg	U	190	25.42%
055972	Benzo(b)fluoranthene	1471	380	ug/kg	U	190	25.42%
110579	Benzo(b)fluoranthene	1977	380	ug/kg	U	190	25.42%
112737	Benzo(b)fluoranthene	1965	370	ug/kg	U	185	22.03%
055906	Benzo(b)fluoranthene	1456	370	ug/kg	U	185	22.03%
067333	Benzo(b)fluoranthene	1793	360	ug/kg	U	180	20.33%
110343	Benzo(b)fluoranthene	SF-SS-16	160	ug/kg	J	160	18.64%
067324	Benzo(b)fluoranthene	1794	140	ug/kg	J	140	15.25%
055932	Benzo(b)fluoranthene	1462	140	ug/kg	J	140	15.25%
110369	Benzo(b)fluoranthene	SF-SS-19	110	ug/kg	J	110	13.55%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067328	Benzo(b)fluoranthene	1794	88	ug/kg	J	88	11.86%
110372	Benzo(b)fluoranthene	1970	74	ug/kg	J	74	10.16%
110365	Benzo(b)fluoranthene	SF-SS-19	66	ug/kg	J	66	8.47%
110290	Benzo(b)fluoranthene	SF-SS-20	65	ug/kg	J	65	6.77%
110392	Benzo(b)fluoranthene	1968	62	ug/kg	J	62	5.08%
113718	Benzo(b)fluoranthene		58	ug/kg	J	58	3.38%
110321	Benzo(b)fluoranthene		46	ug/kg	J	46	1.69%
110396	Benzo(b)fluoranthene	1968	42	ug/kg	J	42	0.00%

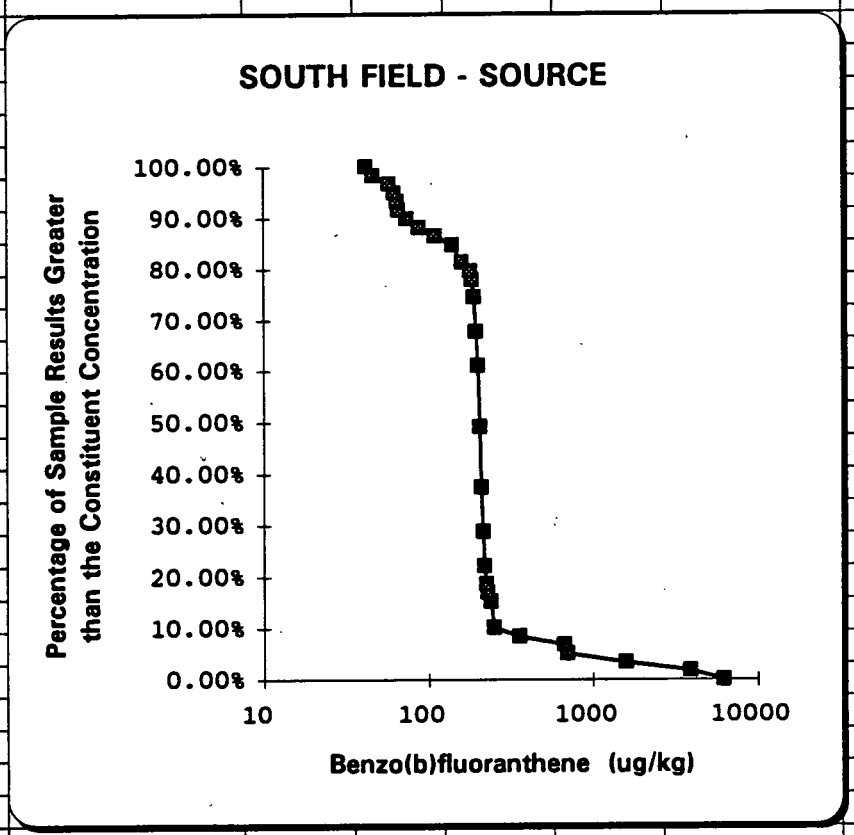

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110378	Benzo(k)fluoranthene	1972	7300	ug/kg	-	7300	100.00%
110297	Benzo(k)fluoranthene	SF-SS-17	3300	ug/kg	-	3300	98.30%
110382	Benzo(k)fluoranthene	1972	1600	ug/kg	-	1600	96.61%
110304	Benzo(k)fluoranthene	1977	710	ug/kg	-	710	94.91%
110287	Benzo(k)fluoranthene	SF-SS-18	670	ug/kg	-	670	93.22%
110340	Benzo(k)fluoranthene	11188	290	ug/kg	J	290	91.52%
110338	Benzo(k)fluoranthene	1969	500	ug/kg	U	250	89.83%
110317	Benzo(k)fluoranthene		240	ug/kg	J	240	86.44%
110351	Benzo(k)fluoranthene	1965	480	ug/kg	U	240	86.44%
110355	Benzo(k)fluoranthene	1966	460	ug/kg	U	230	84.74%
110307	Benzo(k)fluoranthene	SF-SS-21	450	ug/kg	U	225	83.05%
110335	Benzo(k)fluoranthene	1978	440	ug/kg	U	220	79.66%
110339	Benzo(k)fluoranthene	1969	440	ug/kg	U	220	79.66%
110331	Benzo(k)fluoranthene	1964	430	ug/kg	U	215	72.88%
110358	Benzo(k)fluoranthene	1967	430	ug/kg	U	215	72.88%
112893	Benzo(k)fluoranthene	1970	430	ug/kg	U	215	72.88%
112507	Benzo(k)fluoranthene	11186	430	ug/kg	U	215	72.88%
112536	Benzo(k)fluoranthene	1971	420	ug/kg	U	210	66.10%
112648	Benzo(k)fluoranthene	1964	420	ug/kg	U	210	66.10%
112859	Benzo(k)fluoranthene	1966	420	ug/kg	U	210	66.10%
112559	Benzo(k)fluoranthene	1969	420	ug/kg	U	210	66.10%
110385	Benzo(k)fluoranthene	1975	410	ug/kg	U	205	54.23%
110362	Benzo(k)fluoranthene	1967	410	ug/kg	U	205	54.23%
110327	Benzo(k)fluoranthene	1971	410	ug/kg	U	205	54.23%
110389	Benzo(k)fluoranthene	1975	410	ug/kg	U	205	54.23%
110571	Benzo(k)fluoranthene	1977	410	ug/kg	U	205	54.23%
112520	Benzo(k)fluoranthene	11187	410	ug/kg	U	205	54.23%
112494	Benzo(k)fluoranthene	1972	410	ug/kg	U	205	54.23%
110396	Benzo(k)fluoranthene	1968	400	ug/kg	U	200	42.37%
110406	Benzo(k)fluoranthene	1978	400	ug/kg	U	200	42.37%
112690	Benzo(k)fluoranthene	1970	400	ug/kg	U	200	42.37%
112835	Benzo(k)fluoranthene	1968	400	ug/kg	U	200	42.37%
055945	Benzo(k)fluoranthene	1465	400	ug/kg	U	200	42.37%
112545	Benzo(k)fluoranthene	1975	400	ug/kg	U	200	42.37%
112731	Benzo(k)fluoranthene	1967	400	ug/kg	U	200	42.37%
110547	Benzo(k)fluoranthene	11188	390	ug/kg	UJ	195	33.89%
110584	Benzo(k)fluoranthene	1972	390	ug/kg	U	195	33.89%
112696	Benzo(k)fluoranthene	1967	390	ug/kg	U	195	33.89%
067328	Benzo(k)fluoranthene	1794	390	ug/kg	U	195	33.89%
067367	Benzo(k)fluoranthene	1795	390	ug/kg	U	195	33.89%
067324	Benzo(k)fluoranthene	1794	380	ug/kg	U	190	23.72%
067370	Benzo(k)fluoranthene	1795	380	ug/kg	U	190	23.72%
055932	Benzo(k)fluoranthene	1462	380	ug/kg	U	190	23.72%
055959	Benzo(k)fluoranthene	1468	380	ug/kg	U	190	23.72%
055972	Benzo(k)fluoranthene	1471	380	ug/kg	U	190	23.72%
110579	Benzo(k)fluoranthene	1977	380	ug/kg	U	190	23.72%
112737	Benzo(k)fluoranthene	1965	370	ug/kg	U	185	20.33%
055906	Benzo(k)fluoranthene	1456	370	ug/kg	U	185	20.33%
110343	Benzo(k)fluoranthene	SF-SS-16	180	ug/kg	J	180	16.94%
067333	Benzo(k)fluoranthene	1793	360	ug/kg	U	180	16.94%
110369	Benzo(k)fluoranthene	SF-SS-19	110	ug/kg	J	110	15.25%
110365	Benzo(k)fluoranthene	SF-SS-19	71	ug/kg	J	71	13.55%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110372	Benzo(k)fluoranthene	1970	69	ug/kg	J	69	11.86%
113718	Benzo(k)fluoranthene		58	ug/kg	J	58	10.16%
110290	Benzo(k)fluoranthene	SF-SS-20	57	ug/kg	J	57	6.77%
110413	Benzo(k)fluoranthene	11186	57	ug/kg	J	57	6.77%
110392	Benzo(k)fluoranthene	1968	53	ug/kg	J	53	5.08%
110324	Benzo(k)fluoranthene	1971	52	ug/kg	J	52	3.38%
110321	Benzo(k)fluoranthene		49	ug/kg	J	49	1.69%
110415	Benzo(k)fluoranthene	11187	48	ug/kg	J	48	0.00%

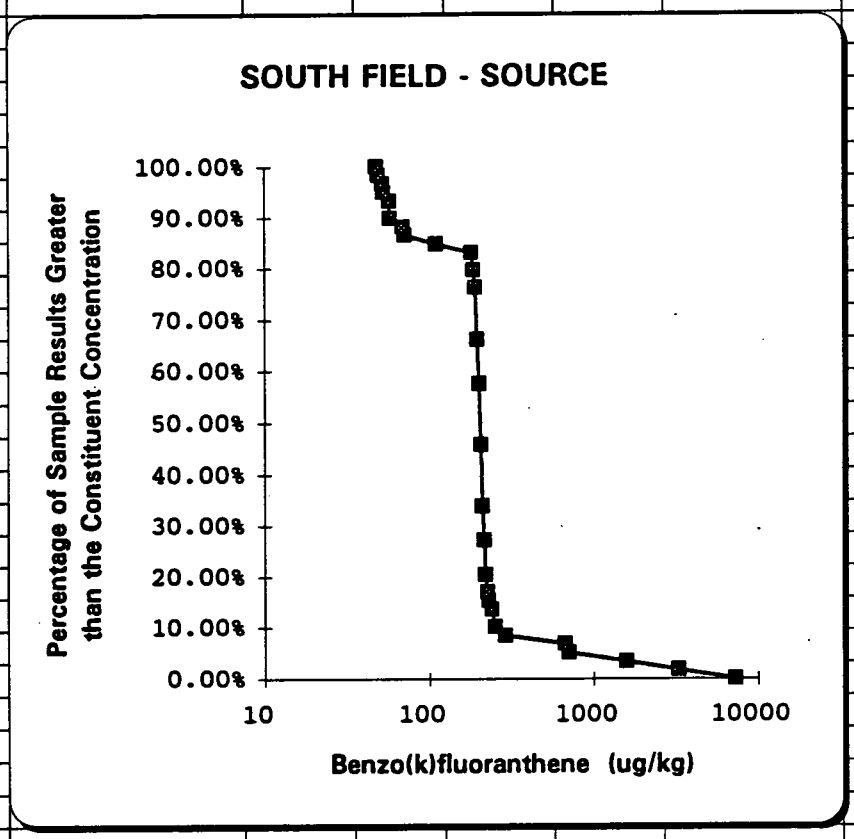

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110339	Beryllium	1969	2.2	mg/kg	-	2.2	100.00%
110297	Beryllium	SF-SS-17	1.9	mg/kg	-	1.9	98.48%
055959	Beryllium	1468	1.6	mg/kg	-	1.6	96.96%
110338	Beryllium	1969	1.5	mg/kg	-	1.5	93.93%
055906	Beryllium	1456	1.5	mg/kg	-	1.5	93.93%
055945	Beryllium	1465	1.3	mg/kg	-	1.3	92.42%
067324	Beryllium	1794	1.1	mg/kg	-	1.1	90.90%
110307	Beryllium	SF-SS-21	1	mg/kg	-	1	86.36%
112648	Beryllium	1964	1	mg/kg	-	1	86.36%
067343	Beryllium	1792	1	mg/kg	-	1	86.36%
067333	Beryllium	1793	0.99	mg/kg	-	0.99	84.84%
110351	Beryllium	1965	0.98	mg/kg	-	0.98	83.33%
067356	Beryllium	1792	0.97	mg/kg	-	0.97	81.81%
067353	Beryllium	1792	0.93	mg/kg	-	0.93	80.30%
112536	Beryllium	1971	0.92	mg/kg	-	0.92	78.78%
110355	Beryllium	1966	0.91	mg/kg	-	0.91	77.27%
110340	Beryllium	11188	0.87	mg/kg	-	0.87	72.72%
113722	Beryllium		0.87	mg/kg	-	0.87	72.72%
067328	Beryllium	1794	0.87	mg/kg	-	0.87	72.72%
110331	Beryllium	1964	0.86	mg/kg	-	0.86	69.69%
110335	Beryllium	1978	0.86	mg/kg	-	0.86	69.69%
067350	Beryllium	1792	0.85	mg/kg	-	0.85	65.15%
112494	Beryllium	1972	1.7	mg/kg	U	0.85	65.15%
112545	Beryllium	1975	0.85	mg/kg	-	0.85	65.15%
110343	Beryllium	SF-SS-16	0.84	mg/kg	-	0.84	63.63%
110317	Beryllium		0.83	mg/kg	-	0.83	60.60%
112507	Beryllium	11186	0.83	mg/kg	-	0.83	60.60%
110413	Beryllium	11186	0.82	mg/kg	-	0.82	57.57%
067370	Beryllium	1795	0.82	mg/kg	-	0.82	57.57%
067346	Beryllium	1792	0.8	mg/kg	-	0.8	56.06%
110327	Beryllium	1971	0.78	mg/kg	-	0.78	54.54%
110571	Beryllium	1977	0.77	mg/kg	-	0.77	51.51%
067367	Beryllium	1795	0.77	mg/kg	-	0.77	51.51%
110324	Beryllium	1971	0.75	mg/kg	-	0.75	50.00%
112859	Beryllium	1966	0.74	mg/kg	-	0.74	48.48%
110358	Beryllium	1967	0.71	mg/kg	-	0.71	46.96%
110372	Beryllium	1970	0.68	mg/kg	-	0.68	45.45%
112893	Beryllium	1970	0.65	mg/kg	-	0.65	43.93%
110304	Beryllium	1977	0.63	mg/kg	-	0.63	42.42%
110385	Beryllium	1975	0.61	mg/kg	-	0.61	40.90%
110290	Beryllium	SF-SS-20	0.6	mg/kg	-	0.6	34.84%
110584	Beryllium	1972	0.6	mg/kg	-	0.6	34.84%
055932	Beryllium	1462	1.2	mg/kg	U	0.6	34.84%
055972	Beryllium	1471	1.2	mg/kg	U	0.6	34.84%
110321	Beryllium		0.59	mg/kg	-	0.59	30.30%
110362	Beryllium	1967	0.59	mg/kg	-	0.59	30.30%
110405	Beryllium	1966	0.59	mg/kg	-	0.59	30.30%
110396	Beryllium	1968	0.58	mg/kg	-	0.58	28.78%
110392	Beryllium	1968	0.57	mg/kg	-	0.57	25.75%
110415	Beryllium	11187	0.57	mg/kg	-	0.57	25.75%
110406	Beryllium	1978	0.56	mg/kg	-	0.56	22.72%
110547	Beryllium	11188	0.56	mg/kg	-	0.56	22.72%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110378	Beryllium	1972	0.52	mg/kg	-	0.52	21.21%
110389	Beryllium	1975	0.51	mg/kg	-	0.51	16.66%
110369	Beryllium	SF-SS-19	0.51	mg/kg	-	0.51	16.66%
112696	Beryllium	1967	0.51	mg/kg	-	0.51	16.66%
113718	Beryllium		0.99	mg/kg	U	0.495	15.15%
110365	Beryllium	SF-SS-19	0.49	mg/kg	-	0.49	12.12%
112731	Beryllium	1967	0.49	mg/kg	-	0.49	12.12%
112520	Beryllium	11187	0.48	mg/kg	-	0.48	10.60%
110287	Beryllium	SF-SS-18	0.92	mg/kg	U	0.46	7.57%
110382	Beryllium	1972	0.46	mg/kg	-	0.46	7.57%
112690	Beryllium	1970	0.48	mg/kg	U	0.24	4.54%
112559	Beryllium	1969	0.48	mg/kg	U	0.24	4.54%
112835	Beryllium	1968	0.47	mg/kg	U	0.235	3.03%
112737	Beryllium	1965	0.44	mg/kg	U	0.22	1.51%
110579	Beryllium	1977	0.39	mg/kg	U	0.195	0.00%

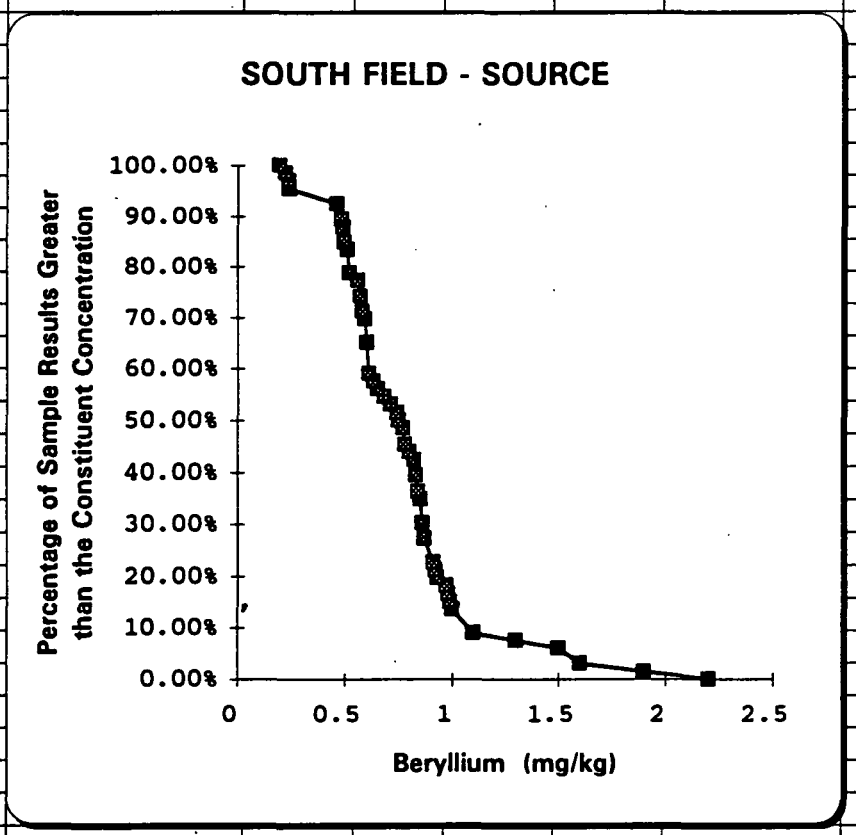

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110351	Cesium-137	1965	0.836	pci/g	-	0.836	100.00%
110335	Cesium-137	1978	0.799	pci/g	-	0.799	98.79%
110355	Cesium-137	1966	0.736	pci/g	-	0.736	97.59%
110331	Cesium-137	1964	0.692	pci/g	-	0.692	96.38%
110372	Cesium-137	1970	0.691	pci/g	-	0.691	95.18%
110317	Cesium-137		0.583	pci/g	-	0.583	93.97%
110307	Cesium-137	SF-SS-21	0.565	pci/g	-	0.565	92.77%
110382	Cesium-137	1972	0.547	pci/g	-	0.547	91.56%
110378	Cesium-137	1972	0.473	pci/g	-	0.473	90.36%
110392	Cesium-137	1968	0.465	pci/g	-	0.465	89.15%
110365	Cesium-137	SF-SS-19	0.415	pci/g	-	0.415	87.95%
110358	Cesium-137	1967	0.39	pci/g	-	0.39	86.74%
110343	Cesium-137	SF-SS-16	0.35	pci/g	-	0.35	85.54%
110369	Cesium-137	SF-SS-19	0.334	pci/g	-	0.334	84.33%
110413	Cesium-137	11186	0.651	pci/g	UJ	0.3255	83.13%
110290	Cesium-137	SF-SS-20	0.313	pci/g	-	0.313	81.92%
110396	Cesium-137	1968	0.311	pci/g	-	0.311	80.72%
110405	Cesium-137	1966	0.301	pci/g	-	0.301	79.51%
110297	Cesium-137	SF-SS-17	0.289	pci/g	-	0.289	78.31%
110338	Cesium-137	1969	0.254	pci/g	-	0.254	77.10%
110362	Cesium-137	1967	0.237	pci/g	-	0.237	75.90%
112690	Cesium-137	1970	0.23	pci/g	-	0.23	74.69%
110321	Cesium-137		0.196	pci/g	-	0.196	73.49%
110415	Cesium-137	11187	0.165	pci/g	-	0.165	72.28%
110304	Cesium-137	1977	0.116	pci/g	-	0.116	71.08%
110340	Cesium-137	11188	0.112	pci/g	-	0.112	69.87%
113105	Cesium-137		0.11	pci/g	J	0.11	68.67%
047019	Cesium-137	1433	0.2	pci/g	U	0.1	30.12%
055900	Cesium-137	1455	0.2	pci/g	UJ	0.1	30.12%
055902	Cesium-137	1456	0.2	pci/g	UJ	0.1	30.12%
055917	Cesium-137	1460	0.2	pci/g	UJ	0.1	30.12%
055913	Cesium-137	1458	0.2	pci/g	UJ	0.1	30.12%
055915	Cesium-137	1459	0.2	pci/g	UJ	0.1	30.12%
055930	Cesium-137	1463	0.2	pci/g	U	0.1	30.12%
055926	Cesium-137	1461	0.2	pci/g	UJ	0.1	30.12%
055928	Cesium-137	1462	0.2	pci/g	UJ	0.1	30.12%
055952	Cesium-137	1467	0.2	pci/g	U	0.1	30.12%
055954	Cesium-137	1468	0.2	pci/g	UJ	0.1	30.12%
055956	Cesium-137	1469	0.2	pci/g	UJ	0.1	30.12%
055968	Cesium-137	1471	0.2	pci/g	U	0.1	30.12%
055970	Cesium-137	1472	0.2	pci/g	U	0.1	30.12%
008014	Cesium-137	1046	0.2	pci/g	UJ	0.1	30.12%
055905	Cesium-137	1457	0.2	pci/g	UJ	0.1	30.12%
055901	Cesium-137	1455	0.2	pci/g	UJ	0.1	30.12%
055904	Cesium-137	1457	0.2	pci/g	UJ	0.1	30.12%
055903	Cesium-137	1456	0.2	pci/g	UJ	0.1	30.12%
055918	Cesium-137	1460	0.2	pci/g	UJ	0.1	30.12%
055914	Cesium-137	1458	0.2	pci/g	UJ	0.1	30.12%
055916	Cesium-137	1459	0.2	pci/g	UJ	0.1	30.12%
055931	Cesium-137	1463	0.2	pci/g	UJ	0.1	30.12%
055927	Cesium-137	1461	0.2	pci/g	UJ	0.1	30.12%
055929	Cesium-137	1462	0.2	pci/g	UJ	0.1	30.12%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055940	Cesium-137	1464	0.2	pci/g	UJ	0.1	30.12%
055942	Cesium-137	1465	0.2	pci/g	UJ	0.1	30.12%
055944	Cesium-137	1466	0.2	pci/g	UJ	0.1	30.12%
055953	Cesium-137	1467	0.2	pci/g	U	0.1	30.12%
055955	Cesium-137	1468	0.2	pci/g	UJ	0.1	30.12%
055957	Cesium-137	1469	0.2	pci/g	UJ	0.1	30.12%
055969	Cesium-137	1471	0.2	pci/g	U	0.1	30.12%
110385	Cesium-137	1975	0.089	pci/g	J	0.089	28.91%
113722	Cesium-137		0.16	pci/g	UJ	0.08	27.71%
112520	Cesium-137	11187	0.142	pci/g	UJ	0.071	26.50%
110571	Cesium-137	1977	0.07	pci/g	J	0.07	25.30%
110547	Cesium-137	11188	0.117	pci/g	UJ	0.0585	24.09%
112545	Cesium-137	1975	0.116	pci/g	UJ	0.058	22.89%
110389	Cesium-137	1975	0.11	pci/g	UJ	0.055	21.68%
110324	Cesium-137	1971	0.109	pci/g	UJ	0.0545	20.48%
112835	Cesium-137	1968	0.108	pci/g	UJ	0.054	19.27%
110327	Cesium-137	1971	0.107	pci/g	UJ	0.0535	18.07%
112737	Cesium-137	1965	0.105	pci/g	UJ	0.0525	16.86%
112507	Cesium-137	11186	0.104	pci/g	UJ	0.052	15.66%
112893	Cesium-137	1970	0.1	pci/g	UJ	0.05	13.25%
112494	Cesium-137	1972	0.1	pci/g	UJ	0.05	13.25%
110406	Cesium-137	1978	0.098	pci/g	UJ	0.049	12.04%
112696	Cesium-137	1967	0.09	pci/g	UJ	0.045	10.84%
110584	Cesium-137	1972	0.088	pci/g	UJ	0.044	9.63%
112559	Cesium-137	1969	0.0879	pci/g	UJ	0.04395	8.43%
110287	Cesium-137	SF-SS-18	0.0878	pci/g	UJ	0.0439	7.22%
112536	Cesium-137	1971	0.0801	pci/g	UJ	0.04005	6.02%
112648	Cesium-137	1964	0.08	pci/g	UJ	0.04	3.61%
110579	Cesium-137	1977	0.08	pci/g	UJ	0.04	3.61%
112859	Cesium-137	1966	0.078	pci/g	UJ	0.039	2.40%
110339	Cesium-137	1969	0.073	pci/g	UJ	0.0365	0.00%
112731	Cesium-137	1967	0.073	pci/g	UJ	0.0365	0.00%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile

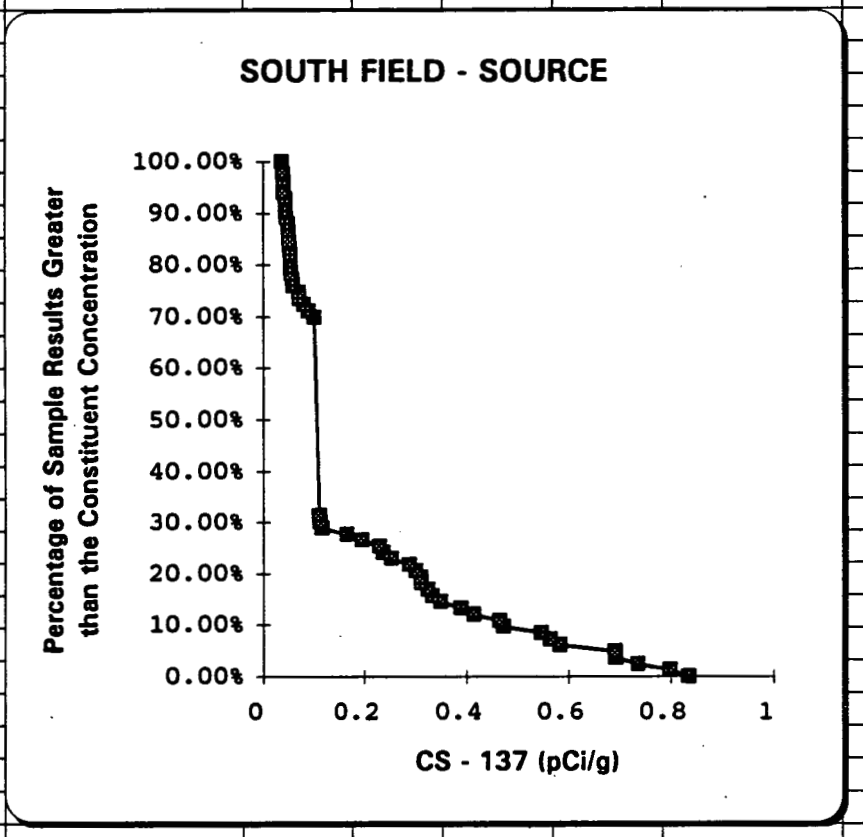

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110378	Dibenzo(a,h)anthracene	1972	1900	ug/kg	J	1900	100.00%
110297	Dibenzo(a,h)anthracene	SF-SS-17	1100	ug/kg	-	1100	98.30%
110382	Dibenzo(a,h)anthracene	1972	440	ug/kg	-	440	96.61%
110338	Dibenzo(a,h)anthracene	1969	500	ug/kg	U	250	94.91%
110351	Dibenzo(a,h)anthracene	1965	480	ug/kg	U	240	93.22%
110304	Dibenzo(a,h)anthracene	1977	230	ug/kg	J	230	89.83%
110355	Dibenzo(a,h)anthracene	1966	460	ug/kg	U	230	89.83%
110307	Dibenzo(a,h)anthracene	SF-SS-21	450	ug/kg	U	225	86.44%
110372	Dibenzo(a,h)anthracene	1970	450	ug/kg	U	225	86.44%
110335	Dibenzo(a,h)anthracene	1978	440	ug/kg	U	220	83.05%
110339	Dibenzo(a,h)anthracene	1969	440	ug/kg	U	220	83.05%
110331	Dibenzo(a,h)anthracene	1964	430	ug/kg	U	215	74.57%
110358	Dibenzo(a,h)anthracene	1967	430	ug/kg	U	215	74.57%
110392	Dibenzo(a,h)anthracene	1968	430	ug/kg	U	215	74.57%
112893	Dibenzo(a,h)anthracene	1970	430	ug/kg	U	215	74.57%
112507	Dibenzo(a,h)anthracene	11186	430	ug/kg	U	215	74.57%
110290	Dibenzo(a,h)anthracene	SF-SS-20	420	ug/kg	U	210	62.71%
110324	Dibenzo(a,h)anthracene	1971	420	ug/kg	U	210	62.71%
110369	Dibenzo(a,h)anthracene	SF-SS-19	420	ug/kg	U	210	62.71%
112536	Dibenzo(a,h)anthracene	1971	420	ug/kg	U	210	62.71%
112648	Dibenzo(a,h)anthracene	1964	420	ug/kg	U	210	62.71%
112859	Dibenzo(a,h)anthracene	1966	420	ug/kg	U	210	62.71%
112559	Dibenzo(a,h)anthracene	1969	420	ug/kg	U	210	62.71%
110321	Dibenzo(a,h)anthracene		410	ug/kg	U	205	47.45%
110385	Dibenzo(a,h)anthracene	1975	410	ug/kg	U	205	47.45%
110365	Dibenzo(a,h)anthracene	SF-SS-19	410	ug/kg	U	205	47.45%
110362	Dibenzo(a,h)anthracene	1967	410	ug/kg	U	205	47.45%
110327	Dibenzo(a,h)anthracene	1971	410	ug/kg	U	205	47.45%
110389	Dibenzo(a,h)anthracene	1975	410	ug/kg	U	205	47.45%
110571	Dibenzo(a,h)anthracene	1977	410	ug/kg	U	205	47.45%
112520	Dibenzo(a,h)anthracene	11187	410	ug/kg	U	205	47.45%
112494	Dibenzo(a,h)anthracene	1972	410	ug/kg	U	205	47.45%
110396	Dibenzo(a,h)anthracene	1968	400	ug/kg	U	200	33.89%
110415	Dibenzo(a,h)anthracene	11187	400	ug/kg	U	200	33.89%
110406	Dibenzo(a,h)anthracene	1978	400	ug/kg	U	200	33.89%
112690	Dibenzo(a,h)anthracene	1970	400	ug/kg	U	200	33.89%
112835	Dibenzo(a,h)anthracene	1968	400	ug/kg	U	200	33.89%
055945	Dibenzo(a,h)anthracene	1465	400	ug/kg	U	200	33.89%
112545	Dibenzo(a,h)anthracene	1975	400	ug/kg	U	200	33.89%
112731	Dibenzo(a,h)anthracene	1967	400	ug/kg	U	200	33.89%
110413	Dibenzo(a,h)anthracene	11186	390	ug/kg	U	195	23.72%
110547	Dibenzo(a,h)anthracene	11188	390	ug/kg	UJ	195	23.72%
110584	Dibenzo(a,h)anthracene	1972	390	ug/kg	U	195	23.72%
112696	Dibenzo(a,h)anthracene	1967	390	ug/kg	U	195	23.72%
067328	Dibenzo(a,h)anthracene	1794	390	ug/kg	U	195	23.72%
067367	Dibenzo(a,h)anthracene	1795	390	ug/kg	U	195	23.72%
067324	Dibenzo(a,h)anthracene	1794	380	ug/kg	U	190	13.55%
067370	Dibenzo(a,h)anthracene	1795	380	ug/kg	U	190	13.55%
055932	Dibenzo(a,h)anthracene	1462	380	ug/kg	U	190	13.55%
055959	Dibenzo(a,h)anthracene	1468	380	ug/kg	U	190	13.55%
055972	Dibenzo(a,h)anthracene	1471	380	ug/kg	U	190	13.55%
110579	Dibenzo(a,h)anthracene	1977	380	ug/kg	U	190	13.55%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112737	Dibenzo(a,h)anthracene	1965	370	ug/kg	U	185	8.47%
113718	Dibenzo(a,h)anthracene		370	ug/kg	UJ	185	8.47%
055906	Dibenzo(a,h)anthracene	1456	370	ug/kg	U	185	8.47%
110287	Dibenzo(a,h)anthracene	SF-SS-18	180	ug/kg	J	180	5.08%
067333	Dibenzo(a,h)anthracene	1793	360	ug/kg	U	180	5.08%
110340	Dibenzo(a,h)anthracene	11188	69	ug/kg	J	69	3.38%
110317	Dibenzo(a,h)anthracene		66	ug/kg	J	66	1.69%
110343	Dibenzo(a,h)anthracene	SF-SS-16	43	ug/kg	J	43	0.00%

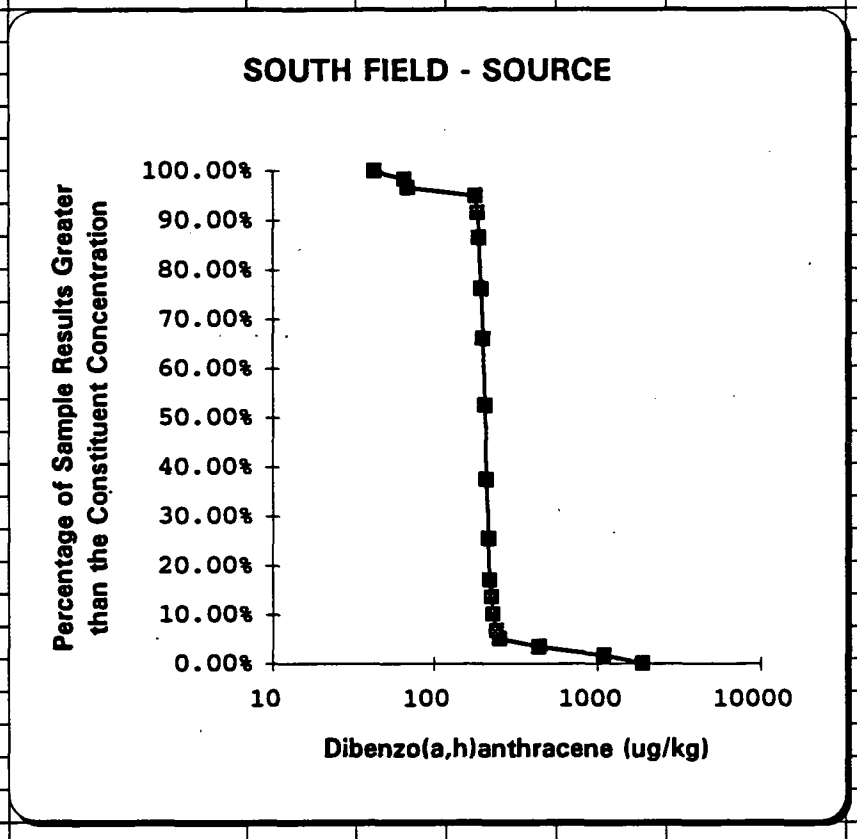

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055932	Dieldrin	1462	180	ug/kg	U	90	98.48%
055959	Dieldrin	1468	180	ug/kg	U	90	98.48%
110396	Dieldrin	1968	16	ug/kg	-	16	96.96%
067324	Dieldrin	1794	21	ug/kg	U	10.5	95.45%
067356	Dieldrin	1792	20	ug/kg	U	10	93.93%
110378	Dieldrin	1972	9.7	ug/kg	-	9.7	92.42%
067328	Dieldrin	1794	19	ug/kg	U	9.5	81.81%
067333	Dieldrin	1793	19	ug/kg	U	9.5	81.81%
067350	Dieldrin	1792	19	ug/kg	U	9.5	81.81%
067353	Dieldrin	1792	19	ug/kg	U	9.5	81.81%
067367	Dieldrin	1795	19	ug/kg	U	9.5	81.81%
067370	Dieldrin	1795	19	ug/kg	U	9.5	81.81%
055945	Dieldrin	1465	19	ug/kg	UJ	9.5	81.81%
067343	Dieldrin	1792	18	ug/kg	U	9	75.75%
067346	Dieldrin	1792	18	ug/kg	U	9	75.75%
055906	Dieldrin	1456	18	ug/kg	UJ	9	75.75%
055972	Dieldrin	1471	18	ug/kg	U	9	75.75%
110338	Dieldrin	1969	5	ug/kg	U	2.5	74.24%
110351	Dieldrin	1965	4.8	ug/kg	U	2.4	72.72%
110355	Dieldrin	1966	4.6	ug/kg	U	2.3	71.21%
110307	Dieldrin	SF-SS-21	4.5	ug/kg	U	2.25	66.66%
110372	Dieldrin	1970	4.5	ug/kg	U	2.25	66.66%
110339	Dieldrin	1969	4.5	ug/kg	U	2.25	66.66%
110335	Dieldrin	1978	4.4	ug/kg	U	2.2	65.15%
110317	Dieldrin		4.3	ug/kg	U	2.15	53.03%
110340	Dieldrin	11188	4.3	ug/kg	U	2.15	53.03%
110331	Dieldrin	1964	4.3	ug/kg	U	2.15	53.03%
110358	Dieldrin	1967	4.3	ug/kg	U	2.15	53.03%
110392	Dieldrin	1968	4.3	ug/kg	U	2.15	53.03%
110343	Dieldrin	SF-SS-16	4.3	ug/kg	U	2.15	53.03%
110405	Dieldrin	1966	4.3	ug/kg	U	2.15	53.03%
112893	Dieldrin	1970	4.3	ug/kg	U	2.15	53.03%
110297	Dieldrin	SF-SS-17	4.2	ug/kg	U	2.1	40.90%
110290	Dieldrin	SF-SS-20	4.2	ug/kg	U	2.1	40.90%
110369	Dieldrin	SF-SS-19	4.2	ug/kg	U	2.1	40.90%
112536	Dieldrin	1971	4.2	ug/kg	U	2.1	40.90%
112859	Dieldrin	1966	4.2	ug/kg	U	2.1	40.90%
113722	Dieldrin		4.2	ug/kg	U	2.1	40.90%
112507	Dieldrin	11186	4.2	ug/kg	U	2.1	40.90%
112559	Dieldrin	1969	4.2	ug/kg	U	2.1	40.90%
110321	Dieldrin		4.1	ug/kg	U	2.05	22.72%
110324	Dieldrin	1971	4.1	ug/kg	U	2.05	22.72%
110385	Dieldrin	1975	4.1	ug/kg	U	2.05	22.72%
110365	Dieldrin	SF-SS-19	4.1	ug/kg	U	2.05	22.72%
110362	Dieldrin	1967	4.1	ug/kg	U	2.05	22.72%
110327	Dieldrin	1971	4.1	ug/kg	U	2.05	22.72%
110389	Dieldrin	1975	4.1	ug/kg	U	2.05	22.72%
110571	Dieldrin	1977	4.1	ug/kg	U	2.05	22.72%
112648	Dieldrin	1964	4.1	ug/kg	U	2.05	22.72%
112690	Dieldrin	1970	4.1	ug/kg	U	2.05	22.72%
110579	Dieldrin	1977	4.1	ug/kg	U	2.05	22.72%
112545	Dieldrin	1975	4.1	ug/kg	U	2.05	22.72%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110304	Dieldrin	1977	4	ug/kg	U	2	9.09%
110382	Dieldrin	1972	4	ug/kg	U	2	9.09%
110415	Dieldrin	11187	4	ug/kg	U	2	9.09%
110406	Dieldrin	1978	4	ug/kg	U	2	9.09%
110584	Dieldrin	1972	4	ug/kg	U	2	9.09%
112520	Dieldrin	11187	4	ug/kg	U	2	9.09%
112696	Dieldrin	1967	4	ug/kg	U	2	9.09%
112494	Dieldrin	1972	4	ug/kg	U	2	9.09%
112731	Dieldrin	1967	4	ug/kg	U	2	9.09%
110287	Dieldrin	SF-SS-18	3.9	ug/kg	U	1.95	3.03%
110413	Dieldrin	11186	3.9	ug/kg	U	1.95	3.03%
110547	Dieldrin	11188	3.9	ug/kg	U	1.95	3.03%
112835	Dieldrin	1968	3.9	ug/kg	U	1.95	3.03%
112737	Dieldrin	1965	3.7	ug/kg	U	1.85	0.00%
113718	Dieldrin		3.7	ug/kg	UJ	1.85	0.00%

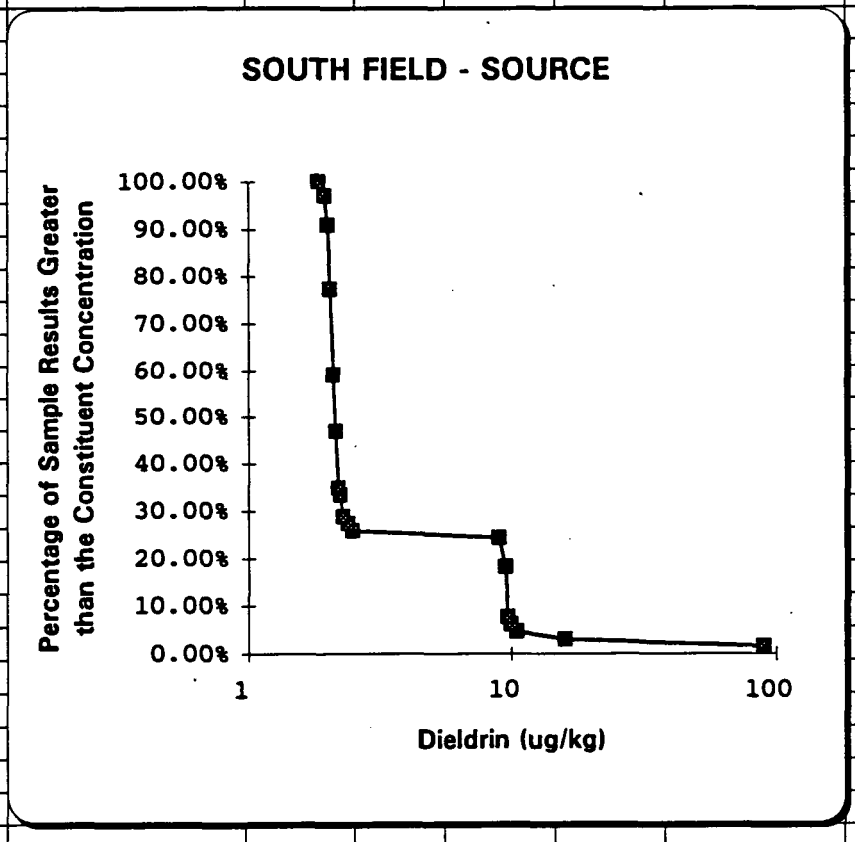

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110378	Indeno(1,2,3-cd)pyrene	1972	6000	ug/kg	-	6000	100.00%
110297	Indeno(1,2,3-cd)pyrene	SF-SS-17	3000	ug/kg	-	3000	98.30%
110304	Indeno(1,2,3-cd)pyrene	1977	620	ug/kg	-	620	96.61%
110287	Indeno(1,2,3-cd)pyrene	SF-SS-18	520	ug/kg	-	520	94.91%
110338	Indeno(1,2,3-cd)pyrene	1969	500	ug/kg	U	250	93.22%
110351	Indeno(1,2,3-cd)pyrene	1965	480	ug/kg	U	240	91.52%
110355	Indeno(1,2,3-cd)pyrene	1966	460	ug/kg	U	230	89.83%
110307	Indeno(1,2,3-cd)pyrene	SF-SS-21	450	ug/kg	U	225	88.13%
110335	Indeno(1,2,3-cd)pyrene	1978	440	ug/kg	U	220	84.74%
110339	Indeno(1,2,3-cd)pyrene	1969	440	ug/kg	U	220	84.74%
110331	Indeno(1,2,3-cd)pyrene	1964	430	ug/kg	U	215	76.27%
110358	Indeno(1,2,3-cd)pyrene	1967	430	ug/kg	U	215	76.27%
110392	Indeno(1,2,3-cd)pyrene	1968	430	ug/kg	U	215	76.27%
112893	Indeno(1,2,3-cd)pyrene	1970	430	ug/kg	U	215	76.27%
112507	Indeno(1,2,3-cd)pyrene	11186	430	ug/kg	U	215	76.27%
110382	Indeno(1,2,3-cd)pyrene	1972	210	ug/kg	J	210	64.40%
110340	Indeno(1,2,3-cd)pyrene	11188	210	ug/kg	J	210	64.40%
110324	Indeno(1,2,3-cd)pyrene	1971	420	ug/kg	U	210	64.40%
112536	Indeno(1,2,3-cd)pyrene	1971	420	ug/kg	U	210	64.40%
112648	Indeno(1,2,3-cd)pyrene	1964	420	ug/kg	U	210	64.40%
112859	Indeno(1,2,3-cd)pyrene	1966	420	ug/kg	U	210	64.40%
112559	Indeno(1,2,3-cd)pyrene	1969	420	ug/kg	U	210	64.40%
110321	Indeno(1,2,3-cd)pyrene		410	ug/kg	U	205	50.84%
110385	Indeno(1,2,3-cd)pyrene	1975	410	ug/kg	U	205	50.84%
110362	Indeno(1,2,3-cd)pyrene	1967	410	ug/kg	U	205	50.84%
110327	Indeno(1,2,3-cd)pyrene	1971	410	ug/kg	U	205	50.84%
110389	Indeno(1,2,3-cd)pyrene	1975	410	ug/kg	U	205	50.84%
110571	Indeno(1,2,3-cd)pyrene	1977	410	ug/kg	U	205	50.84%
112520	Indeno(1,2,3-cd)pyrene	11187	410	ug/kg	U	205	50.84%
112494	Indeno(1,2,3-cd)pyrene	1972	410	ug/kg	U	205	50.84%
110396	Indeno(1,2,3-cd)pyrene	1968	400	ug/kg	U	200	37.28%
110415	Indeno(1,2,3-cd)pyrene	11187	400	ug/kg	U	200	37.28%
110406	Indeno(1,2,3-cd)pyrene	1978	400	ug/kg	U	200	37.28%
112690	Indeno(1,2,3-cd)pyrene	1970	400	ug/kg	U	200	37.28%
112835	Indeno(1,2,3-cd)pyrene	1968	400	ug/kg	U	200	37.28%
055945	Indeno(1,2,3-cd)pyrene	1465	400	ug/kg	U	200	37.28%
112545	Indeno(1,2,3-cd)pyrene	1975	400	ug/kg	U	200	37.28%
112731	Indeno(1,2,3-cd)pyrene	1967	400	ug/kg	U	200	37.28%
110413	Indeno(1,2,3-cd)pyrene	11186	390	ug/kg	U	195	28.81%
110547	Indeno(1,2,3-cd)pyrene	11188	390	ug/kg	UJ	195	28.81%
110584	Indeno(1,2,3-cd)pyrene	1972	390	ug/kg	U	195	28.81%
112696	Indeno(1,2,3-cd)pyrene	1967	390	ug/kg	U	195	28.81%
067328	Indeno(1,2,3-cd)pyrene	1794	390	ug/kg	U	195	28.81%
067324	Indeno(1,2,3-cd)pyrene	1794	380	ug/kg	U	190	18.64%
067370	Indeno(1,2,3-cd)pyrene	1795	380	ug/kg	U	190	18.64%
055932	Indeno(1,2,3-cd)pyrene	1462	380	ug/kg	U	190	18.64%
055959	Indeno(1,2,3-cd)pyrene	1468	380	ug/kg	U	190	18.64%
055972	Indeno(1,2,3-cd)pyrene	1471	380	ug/kg	U	190	18.64%
110579	Indeno(1,2,3-cd)pyrene	1977	380	ug/kg	U	190	18.64%
112737	Indeno(1,2,3-cd)pyrene	1965	370	ug/kg	U	185	15.25%
055906	Indeno(1,2,3-cd)pyrene	1456	370	ug/kg	U	185	15.25%
067333	Indeno(1,2,3-cd)pyrene	1793	360	ug/kg	U	180	13.55%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110317	Indeno(1,2,3-cd)pyrene		150	ug/kg	J	150	11.86%
110343	Indeno(1,2,3-cd)pyrene	SF-SS-16	110	ug/kg	J	110	10.16%
067367	Indeno(1,2,3-cd)pyrene	1795	84	ug/kg	J	84	8.47%
110369	Indeno(1,2,3-cd)pyrene	SF-SS-19	77	ug/kg	J	77	6.77%
110372	Indeno(1,2,3-cd)pyrene	1970	52	ug/kg	J	52	5.08%
110365	Indeno(1,2,3-cd)pyrene	SF-SS-19	51	ug/kg	J	51	3.38%
110290	Indeno(1,2,3-cd)pyrene	SF-SS-20	45	ug/kg	J	45	1.69%
113718	Indeno(1,2,3-cd)pyrene		42	ug/kg	J	42	0.00%

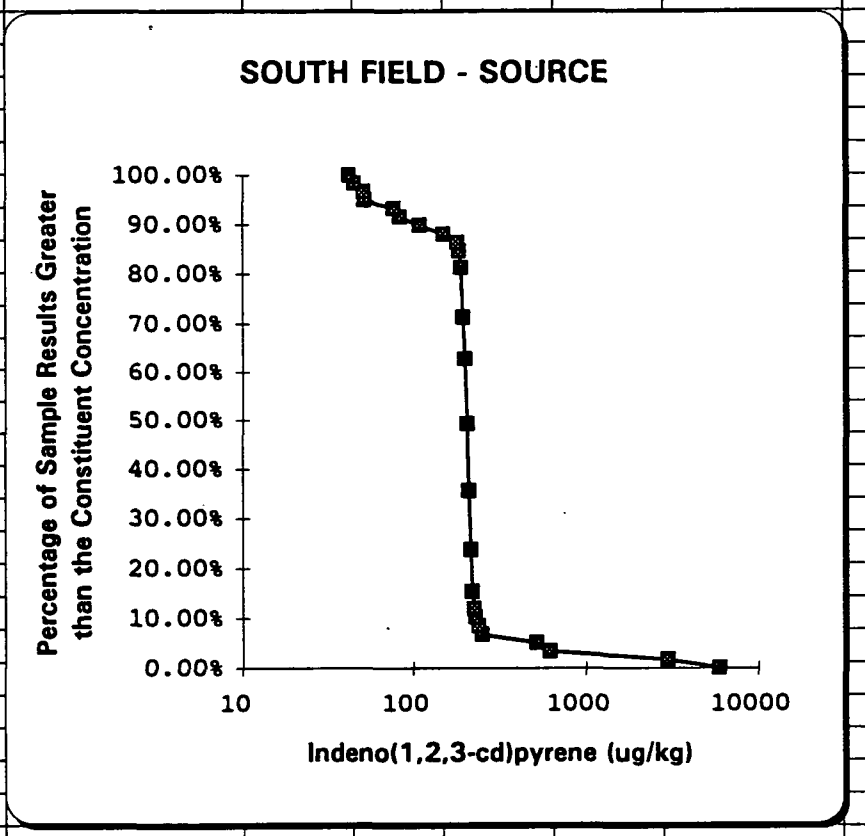

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TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112507	Neptunium-237	11186	0.553	pci/g	N	0.553	100.00%
110351	Neptunium-237	1965	0.483	pci/g	N	0.483	98.63%
110571	Neptunium-237	1977	0.44	pci/g	N	0.44	97.26%
110584	Neptunium-237	1972	0.369	pci/g	N	0.369	95.89%
110339	Neptunium-237	1969	0.356	pci/g	N	0.356	94.52%
110304	Neptunium-237	1977	0.336	pci/g	N	0.336	93.15%
112520	Neptunium-237	11187	0.316	pci/g	N	0.316	91.78%
047019	Neptunium-237	1433	0.6	pci/g	UJ	0.3	47.94%
055900	Neptunium-237	1455	0.6	pci/g	U	0.3	47.94%
055902	Neptunium-237	1456	0.6	pci/g	U	0.3	47.94%
055917	Neptunium-237	1460	0.6	pci/g	UJ	0.3	47.94%
055913	Neptunium-237	1458	0.6	pci/g	UJ	0.3	47.94%
055915	Neptunium-237	1459	0.6	pci/g	UJ	0.3	47.94%
055939	Neptunium-237	1464	0.6	pci/g	UJ	0.3	47.94%
055943	Neptunium-237	1466	0.6	pci/g	UJ	0.3	47.94%
055941	Neptunium-237	1465	0.6	pci/g	UJ	0.3	47.94%
055952	Neptunium-237	1467	0.6	pci/g	UJ	0.3	47.94%
055954	Neptunium-237	1468	0.6	pci/g	UJ	0.3	47.94%
055956	Neptunium-237	1469	0.6	pci/g	UJ	0.3	47.94%
055966	Neptunium-237	1470	0.6	pci/g	UJ	0.3	47.94%
055968	Neptunium-237	1471	0.6	pci/g	UJ	0.3	47.94%
055970	Neptunium-237	1472	0.6	pci/g	UJ	0.3	47.94%
008014	Neptunium-237	1046	0.6	pci/g	U	0.3	47.94%
055905	Neptunium-237	1457	0.6	pci/g	U	0.3	47.94%
055901	Neptunium-237	1455	0.6	pci/g	U	0.3	47.94%
055904	Neptunium-237	1457	0.6	pci/g	U	0.3	47.94%
055903	Neptunium-237	1456	0.6	pci/g	U	0.3	47.94%
055918	Neptunium-237	1460	0.6	pci/g	UJ	0.3	47.94%
055914	Neptunium-237	1458	0.6	pci/g	UJ	0.3	47.94%
055916	Neptunium-237	1459	0.6	pci/g	UJ	0.3	47.94%
055940	Neptunium-237	1464	0.6	pci/g	UJ	0.3	47.94%
055942	Neptunium-237	1465	0.6	pci/g	UJ	0.3	47.94%
055944	Neptunium-237	1466	0.6	pci/g	UJ	0.3	47.94%
055953	Neptunium-237	1467	0.6	pci/g	UJ	0.3	47.94%
055955	Neptunium-237	1468	0.6	pci/g	UJ	0.3	47.94%
055957	Neptunium-237	1469	0.6	pci/g	UJ	0.3	47.94%
055967	Neptunium-237	1470	0.6	pci/g	UJ	0.3	47.94%
055971	Neptunium-237	1472	0.6	pci/g	UJ	0.3	47.94%
055969	Neptunium-237	1471	0.6	pci/g	UJ	0.3	47.94%
112494	Neptunium-237	1972	0.291	pci/g	N	0.291	46.57%
110405	Neptunium-237	1966	0.283	pci/g	N	0.283	45.20%
112545	Neptunium-237	1975	0.269	pci/g	N	0.269	43.83%
110340	Neptunium-237	11188	0.239	pci/g	N	0.239	42.46%
110317	Neptunium-237		0.226	pci/g	N	0.226	41.09%
110406	Neptunium-237	1978	0.219	pci/g	N	0.219	39.72%
110355	Neptunium-237	1966	0.214	pci/g	N	0.214	38.35%
110392	Neptunium-237	1968	0.185	pci/g	N	0.185	36.98%
110331	Neptunium-237	1964	0.18	pci/g	N	0.18	35.61%
110335	Neptunium-237	1978	0.177	pci/g	N	0.177	34.24%
110413	Neptunium-237	11186	0.167	pci/g	N	0.167	32.87%
110362	Neptunium-237	1967	0.166	pci/g	N	0.166	31.50%
110415	Neptunium-237	11187	0.142	pci/g	N	0.142	30.13%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110338	Neptunium-237	1969	0.136	pci/g	N	0.136	28.76%
113105	Neptunium-237		0.12	pci/g	N	0.12	27.39%
110396	Neptunium-237	1968	0.116	pci/g	N	0.116	26.02%
110579	Neptunium-237	1977	0.112	pci/g	N	0.112	24.65%
110385	Neptunium-237	1975	0.11	pci/g	N	0.11	21.91%
110365	Neptunium-237	SF-SS-19	0.11	pci/g	N	0.11	21.91%
110343	Neptunium-237	SF-SS-16	0.092	pci/g	N	0.092	20.54%
110547	Neptunium-237	11188	0.0776	pci/g	N	0.0776	19.17%
110327	Neptunium-237	1971	0.077	pci/g	N	0.077	17.80%
110369	Neptunium-237	SF-SS-19	0.076	pci/g	N	0.076	16.43%
112835	Neptunium-237	1968	0.0752	pci/g	N	0.0752	15.06%
112648	Neptunium-237	1964	0.07	pci/g	N	0.07	13.69%
110307	Neptunium-237	SF-SS-21	0.056	pci/g	N	0.056	12.32%
110358	Neptunium-237	1967	0.074	pci/g	U	0.037	10.95%
112559	Neptunium-237	1969	0.0343	pci/g	N	0.0343	9.58%
112737	Neptunium-237	1965	0.0321	pci/g	N	0.0321	8.21%
112893	Neptunium-237	1970	0.06	pci/g	U	0.03	6.84%
110287	Neptunium-237	SF-SS-18	0.052	pci/g	U	0.026	5.47%
112690	Neptunium-237	1970	0.05	pci/g	U	0.025	2.73%
113722	Neptunium-237		0.05	pci/g	U	0.025	2.73%
112731	Neptunium-237	1967	0.0315	pci/g	U	0.01575	1.36%
112696	Neptunium-237	1967	0.03	pci/g	U	0.015	0.00%

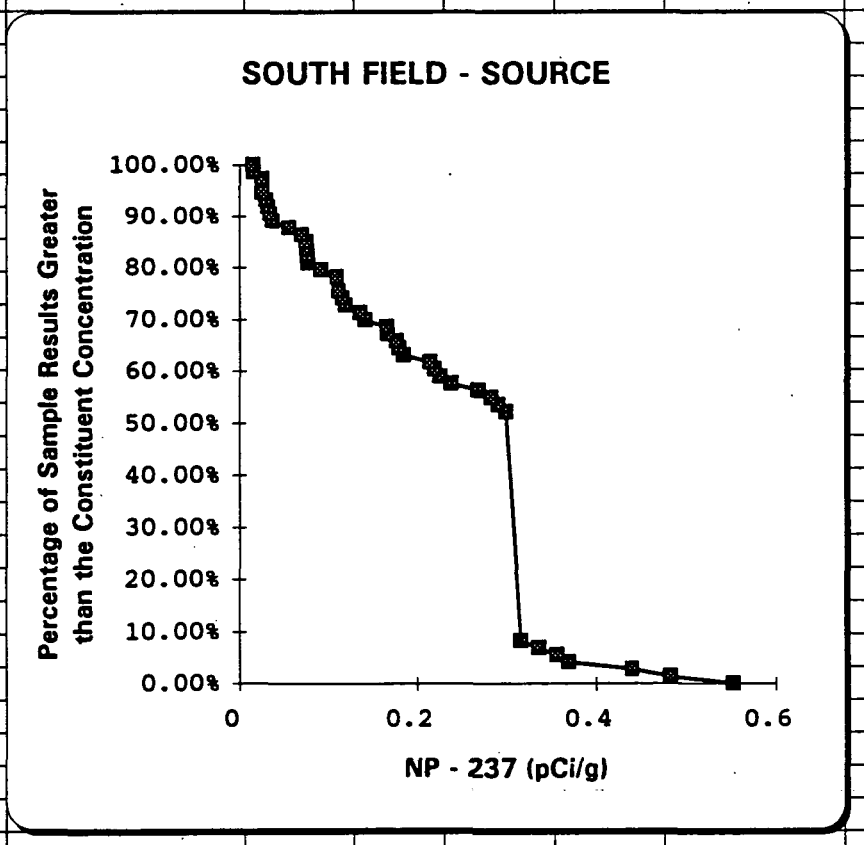

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110382	Radium-226	1972	31.2	pci/g	-	31.2	100.00%
110317	Radium-226		30.8	pci/g	-	30.8	98.82%
110378	Radium-226	1972	21.6	pci/g	-	21.6	97.64%
055904	Radium-226	1457	15.7	pci/g	J	15.7	96.47%
113724	Radium-226		9.21	pci/g	-	9.21	95.29%
047019	Radium-226	1433	7.67	pci/g	-	7.67	94.11%
055900	Radium-226	1455	5.93	pci/g	J	5.93	92.94%
113722	Radium-226		5.76	pci/g	-	5.76	91.76%
110584	Radium-226	1972	5.14	pci/g	-	5.14	90.58%
110307	Radium-226	SF-SS-21	3.24	pci/g	-	3.24	89.41%
110413	Radium-226	11186	3.01	pci/g	-	3.01	88.23%
112507	Radium-226	11186	1.99	pci/g	-	1.99	87.05%
110297	Radium-226	SF-SS-17	1.92	pci/g	-	1.92	85.88%
112859	Radium-226	1966	1.84	pci/g	-	1.84	84.70%
110351	Radium-226	1965	1.8	pci/g	-	1.8	83.52%
113105	Radium-226		1.77	pci/g	-	1.77	82.35%
110355	Radium-226	1966	1.74	pci/g	-	1.74	81.17%
055927	Radium-226	1461	1.65	pci/g	J	1.65	80.00%
110415	Radium-226	11187	1.64	pci/g	-	1.64	78.82%
055915	Radium-226	1459	1.6	pci/g	J	1.6	77.64%
055955	Radium-226	1468	1.58	pci/g	J	1.58	76.47%
055944	Radium-226	1466	1.56	pci/g	J	1.56	74.11%
055953	Radium-226	1467	1.56	pci/g	-	1.56	74.11%
110389	Radium-226	1975	1.51	pci/g	-	1.51	71.76%
055931	Radium-226	1463	1.51	pci/g	J	1.51	71.76%
055913	Radium-226	1458	1.48	pci/g	J	1.48	70.58%
110340	Radium-226	11188	1.44	pci/g	J	1.44	67.05%
055905	Radium-226	1457	1.44	pci/g	J	1.44	67.05%
055940	Radium-226	1464	1.44	pci/g	J	1.44	67.05%
110365	Radium-226	SF-SS-19	1.43	pci/g	-	1.43	65.88%
110547	Radium-226	11188	1.42	pci/g	-	1.42	64.70%
055914	Radium-226	1458	1.41	pci/g	J	1.41	63.52%
055929	Radium-226	1462	1.38	pci/g	J	1.38	62.35%
110343	Radium-226	SF-SS-16	1.33	pci/g	J	1.33	60.00%
055970	Radium-226	1472	1.33	pci/g	-	1.33	60.00%
055916	Radium-226	1459	1.31	pci/g	J	1.31	58.82%
055928	Radium-226	1462	1.3	pci/g	J	1.3	54.11%
008014	Radium-226	1046	1.3	pci/g	J	1.3	54.11%
055901	Radium-226	1455	1.3	pci/g	J	1.3	54.11%
055942	Radium-226	1465	1.3	pci/g	J	1.3	54.11%
055957	Radium-226	1469	1.27	pci/g	J	1.27	52.94%
112545	Radium-226	1975	1.26	pci/g	-	1.26	51.76%
110339	Radium-226	1969	1.25	pci/g	J	1.25	49.41%
112536	Radium-226	1971	1.25	pci/g	-	1.25	49.41%
110405	Radium-226	1966	1.24	pci/g	-	1.24	47.05%
055968	Radium-226	1471	1.24	pci/g	-	1.24	47.05%
112648	Radium-226	1964	1.23	pci/g	-	1.23	44.70%
055926	Radium-226	1461	1.23	pci/g	J	1.23	44.70%
110331	Radium-226	1964	1.22	pci/g	J	1.22	41.17%
110335	Radium-226	1978	1.22	pci/g	J	1.22	41.17%
110369	Radium-226	SF-SS-19	1.22	pci/g	J	1.22	41.17%
110327	Radium-226	1971	1.21	pci/g	J	1.21	38.82%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112520	Radium-226	11187	1.21	pci/g	-	1.21	38.82%
055903	Radium-226	1456	1.18	pci/g	J	1.18	37.64%
110338	Radium-226	1969	1.17	pci/g	J	1.17	35.29%
112835	Radium-226	1968	1.17	pci/g	-	1.17	35.29%
110321	Radium-226		1.16	pci/g	-	1.16	32.94%
110571	Radium-226	1977	1.16	pci/g	-	1.16	32.94%
055918	Radium-226	1460	1.15	pci/g	J	1.15	31.76%
110372	Radium-226	1970	1.14	pci/g	J	1.14	29.41%
110392	Radium-226	1968	1.14	pci/g	J	1.14	29.41%
110304	Radium-226	1977	1.12	pci/g	-	1.12	27.05%
112737	Radium-226	1965	1.12	pci/g	-	1.12	27.05%
112893	Radium-226	1970	1.09	pci/g	-	1.09	25.88%
110396	Radium-226	1968	1.08	pci/g	J	1.08	24.70%
112696	Radium-226	1967	1.07	pci/g	-	1.07	23.52%
110290	Radium-226	SF-SS-20	1.06	pci/g	-	1.06	21.17%
055917	Radium-226	1460	1.06	pci/g	J	1.06	21.17%
110287	Radium-226	SF-SS-18	1.04	pci/g	-	1.04	18.82%
110406	Radium-226	1978	1.04	pci/g	-	1.04	18.82%
110385	Radium-226	1975	1.02	pci/g	J	1.02	16.47%
112731	Radium-226	1967	1.02	pci/g	-	1.02	16.47%
110358	Radium-226	1967	0.95	pci/g	J	0.95	14.11%
112690	Radium-226	1970	0.95	pci/g	-	0.95	14.11%
055902	Radium-226	1456	0.94	pci/g	J	0.94	10.58%
055930	Radium-226	1463	0.94	pci/g	-	0.94	10.58%
055954	Radium-226	1468	0.94	pci/g	J	0.94	10.58%
112559	Radium-226	1969	0.918	pci/g	-	0.918	9.41%
055956	Radium-226	1469	0.9	pci/g	DJ	0.9	8.23%
110324	Radium-226	1971	0.874	pci/g	J	0.874	7.05%
112494	Radium-226	1972	0.87	pci/g	-	0.87	5.88%
110579	Radium-226	1977	0.81	pci/g	-	0.81	4.70%
113725	Radium-226		1.2	pci/g	U	0.6	3.52%
110362	Radium-226	1967	1.02	pci/g	U	0.51	2.35%
055952	Radium-226	1467	0.304	pci/g	U	0.152	1.17%
055969	Radium-226	1471	0.3	pci/g	U	0.15	0.00%

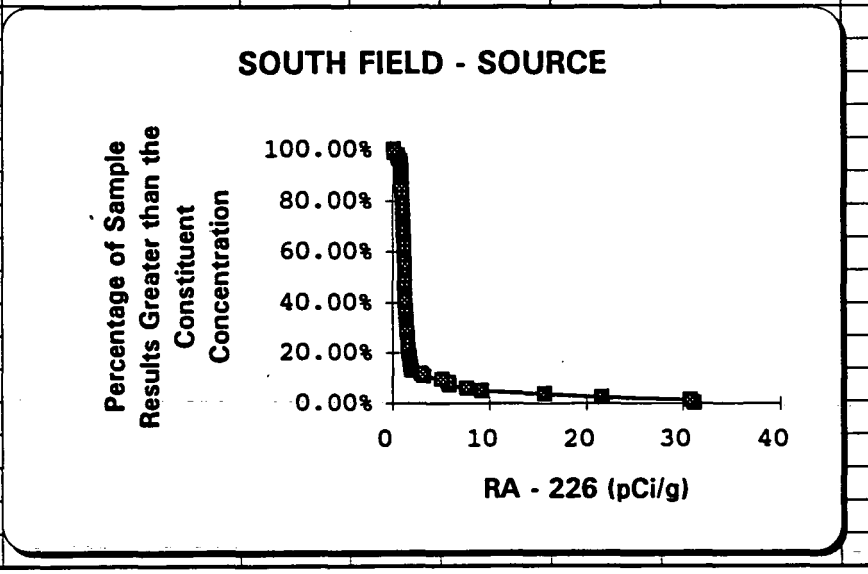

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
113725	Radium-228		675	pci/g	-	675	100.00%
047019	Radium-228	1433	19	pci/g	-	19	98.80%
110355	Radium-228	1966	3.88	pci/g	-	3.88	97.61%
113105	Radium-228		3.74	pci/g	-	3.74	96.42%
110405	Radium-228	1966	3.38	pci/g	-	3.38	95.23%
055904	Radium-228	1457	2.46	pci/g	J	2.46	94.04%
110415	Radium-228	11187	2.23	pci/g	-	2.23	92.85%
110382	Radium-228	1972	2.07	pci/g	-	2.07	91.66%
055914	Radium-228	1458	1.95	pci/g	J	1.95	90.47%
110321	Radium-228		1.92	pci/g	-	1.92	89.28%
110317	Radium-228		1.65	pci/g	-	1.65	86.90%
113724	Radium-228		1.65	pci/g	-	1.65	86.90%
055901	Radium-228	1455	1.58	pci/g	J	1.58	85.71%
055905	Radium-228	1457	1.56	pci/g	J	1.56	84.52%
112520	Radium-228	11187	1.54	pci/g	-	1.54	82.14%
112536	Radium-228	1971	1.54	pci/g	-	1.54	82.14%
055944	Radium-228	1466	1.46	pci/g	J	1.46	80.95%
112545	Radium-228	1975	1.42	pci/g	-	1.42	79.76%
055927	Radium-228	1461	1.41	pci/g	J	1.41	78.57%
055957	Radium-228	1469	1.39	pci/g	J	1.39	77.38%
055915	Radium-228	1459	1.37	pci/g	J	1.37	75.00%
055929	Radium-228	1462	1.37	pci/g	J	1.37	75.00%
055953	Radium-228	1467	1.35	pci/g	-	1.35	73.80%
110339	Radium-228	1969	1.32	pci/g	-	1.32	72.61%
110297	Radium-228	SF-SS-17	1.31	pci/g	-	1.31	69.04%
110547	Radium-228	11188	1.31	pci/g	-	1.31	69.04%
055942	Radium-228	1465	1.31	pci/g	J	1.31	69.04%
008014	Radium-228	1046	1.3	pci/g	J	1.3	66.66%
055903	Radium-228	1456	1.3	pci/g	J	1.3	66.66%
110307	Radium-228	SF-SS-21	1.29	pci/g	-	1.29	65.47%
055900	Radium-228	1455	1.27	pci/g	J	1.27	64.28%
110290	Radium-228	SF-SS-20	1.26	pci/g	-	1.26	59.52%
110389	Radium-228	1975	1.26	pci/g	-	1.26	59.52%
055931	Radium-228	1463	1.26	pci/g	J	1.26	59.52%
055940	Radium-228	1464	1.26	pci/g	J	1.26	59.52%
055916	Radium-228	1459	1.25	pci/g	J	1.25	58.33%
110351	Radium-228	1965	1.21	pci/g	-	1.21	57.14%
110343	Radium-228	SF-SS-16	1.2	pci/g	-	1.2	55.95%
110304	Radium-228	1977	1.18	pci/g	-	1.18	53.57%
110327	Radium-228	1971	1.18	pci/g	-	1.18	53.57%
110378	Radium-228	1972	1.17	pci/g	-	1.17	52.38%
110365	Radium-228	SF-SS-19	1.16	pci/g	-	1.16	51.19%
112859	Radium-228	1966	1.15	pci/g	-	1.15	50.00%
110584	Radium-228	1972	1.14	pci/g	-	1.14	48.80%
110413	Radium-228	11186	1.12	pci/g	-	1.12	46.42%
112737	Radium-228	1965	1.12	pci/g	-	1.12	46.42%
112507	Radium-228	11186	1.1	pci/g	-	1.1	45.23%
110369	Radium-228	SF-SS-19	1.09	pci/g	-	1.09	42.85%
055969	Radium-228	1471	1.09	pci/g	-	1.09	42.85%
112690	Radium-228	1970	1.08	pci/g	-	1.08	41.66%
110331	Radium-228	1964	1.07	pci/g	-	1.07	39.28%
110338	Radium-228	1969	1.07	pci/g	-	1.07	39.28%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110385	Radium-228	1975	1.06	pci/g	-	1.06	35.71%
110362	Radium-228	1967	1.06	pci/g	-	1.06	35.71%
055926	Radium-228	1461	1.06	pci/g	J	1.06	35.71%
110372	Radium-228	1970	1.05	pci/g	-	1.05	32.14%
110358	Radium-228	1967	1.05	pci/g	-	1.05	32.14%
055952	Radium-228	1467	1.05	pci/g	-	1.05	32.14%
112696	Radium-228	1967	1.04	pci/g	-	1.04	30.95%
110406	Radium-228	1978	1.03	pci/g	-	1.03	29.76%
110392	Radium-228	1968	1.02	pci/g	-	1.02	28.57%
110340	Radium-228	11188	1	pci/g	-	1	26.19%
110396	Radium-228	1968	1	pci/g	-	1	26.19%
055968	Radium-228	1471	0.994	pci/g	-	0.994	25.00%
110324	Radium-228	1971	0.986	pci/g	-	0.986	23.80%
110335	Radium-228	1978	0.973	pci/g	-	0.973	22.61%
110571	Radium-228	1977	0.97	pci/g	-	0.97	21.42%
055970	Radium-228	1472	0.961	pci/g	-	0.961	20.23%
112835	Radium-228	1968	0.959	pci/g	-	0.959	19.04%
055917	Radium-228	1460	0.94	pci/g	J	0.94	17.85%
112494	Radium-228	1972	0.93	pci/g	-	0.93	16.66%
112893	Radium-228	1970	0.92	pci/g	-	0.92	15.47%
110287	Radium-228	SF-SS-18	0.917	pci/g	-	0.917	14.28%
055902	Radium-228	1456	0.9	pci/g	J	0.9	11.90%
055954	Radium-228	1468	0.9	pci/g	J	0.9	11.90%
112731	Radium-228	1967	0.899	pci/g	-	0.899	10.71%
110579	Radium-228	1977	0.87	pci/g	-	0.87	9.52%
112648	Radium-228	1964	0.86	pci/g	-	0.86	8.33%
055918	Radium-228	1460	0.85	pci/g	J	0.85	7.14%
055928	Radium-228	1462	0.81	pci/g	J	0.81	5.95%
113722	Radium-228		0.74	pci/g	-	0.74	3.57%
055956	Radium-228	1469	0.74	pci/g	DJ	0.74	3.57%
112559	Radium-228	1969	0.734	pci/g	-	0.734	2.38%
055930	Radium-228	1463	0.73	pci/g	-	0.73	1.19%
055955	Radium-228	1468	0.54	pci/g	UJ	0.27	0.00%

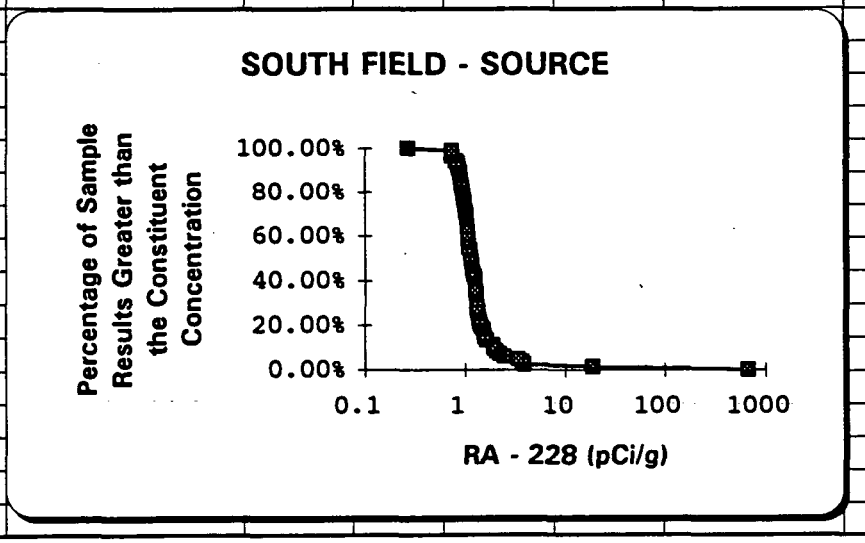

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110547	Strontium-90	11188	2.39	pci/g	J	2.39	100.00%
47019	Strontium-90	1433	1.91	pci/g	-	1.91	98.70%
112545	Strontium-90	1975	1.57	pci/g	-	1.57	97.50%
112536	Strontium-90	1971	1.36	pci/g	J	1.36	96.20%
110584	Strontium-90	1972	1.28	pci/g	J	1.28	95.00%
55971	Strontium-90	1472	1.1	pci/g	J	1.1	93.70%
110335	Strontium-90	1978	1	pci/g	-	1	92.50%
110287	Strontium-90	SF-SS-18	0.942	pci/g	J	0.942	91.20%
55944	Strontium-90	1466	0.92	pci/g	-	0.92	90.00%
110369	Strontium-90	SF-SS-19	0.894	pci/g	J	0.894	88.70%
112859	Strontium-90	1966	0.861	pci/g	J	0.861	87.50%
112507	Strontium-90	11186	0.815	pci/g	J	0.815	86.20%
112690	Strontium-90	1970	0.8	pci/g	J	0.8	85.00%
112893	Strontium-90	1970	0.69	pci/g	J	0.69	83.70%
55967	Strontium-90	1470	0.66	pci/g	J	0.66	82.50%
112559	Strontium-90	1969	0.65	pci/g	J	0.65	81.20%
110579	Strontium-90	1977	0.59	pci/g	J	0.59	80.00%
110351	Strontium-90	1965	0.534	pci/g	-	0.534	78.70%
110339	Strontium-90	1969	0.508	pci/g	-	0.508	77.50%
55969	Strontium-90	1471	0.5	pci/g	-	0.5	76.20%
112737	Strontium-90	1965	0.443	pci/g	J	0.443	75.00%
110290	Strontium-90	SF-SS-20	0.744	pci/g	UJ	0.372	73.70%
110331	Strontium-90	1964	0.355	pci/g	N	0.355	72.50%
110362	Strontium-90	1967	0.603	pci/g	UJ	0.3015	71.20%
110307	Strontium-90	SF-SS-21	0.601	pci/g	UJ	0.3005	70.00%
110389	Strontium-90	1975	0.56	pci/g	UJ	0.28	68.70%
110324	Strontium-90	1971	0.553	pci/g	UJ	0.2765	67.50%
112648	Strontium-90	1964	0.51	pci/g	UJ	0.255	66.20%
110297	Strontium-90	SF-SS-17	0.508	pci/g	UJ	0.254	65.00%
55902	Strontium-90	1456	0.5	pci/g	U	0.25	35.00%
55917	Strontium-90	1460	0.5	pci/g	U	0.25	35.00%
55930	Strontium-90	1463	0.5	pci/g	U	0.25	35.00%
55928	Strontium-90	1462	0.5	pci/g	U	0.25	35.00%
55939	Strontium-90	1464	0.5	pci/g	UJ	0.25	35.00%
55943	Strontium-90	1466	0.5	pci/g	U	0.25	35.00%
55941	Strontium-90	1465	0.5	pci/g	U	0.25	35.00%
55952	Strontium-90	1467	0.5	pci/g	U	0.25	35.00%
55956	Strontium-90	1469	0.5	pci/g	U	0.25	35.00%
55966	Strontium-90	1470	0.5	pci/g	U	0.25	35.00%
55968	Strontium-90	1471	0.5	pci/g	U	0.25	35.00%
8014	Strontium-90	1046	0.5	pci/g	U	0.25	35.00%
55905	Strontium-90	1457	0.5	pci/g	U	0.25	35.00%
55904	Strontium-90	1457	0.5	pci/g	U	0.25	35.00%
55903	Strontium-90	1456	0.5	pci/g	U	0.25	35.00%
55918	Strontium-90	1460	0.5	pci/g	U	0.25	35.00%
55914	Strontium-90	1458	0.5	pci/g	U	0.25	35.00%
55916	Strontium-90	1459	0.5	pci/g	U	0.25	35.00%
55931	Strontium-90	1463	0.5	pci/g	U	0.25	35.00%
55929	Strontium-90	1462	0.5	pci/g	U	0.25	35.00%
55940	Strontium-90	1464	0.5	pci/g	UJ	0.25	35.00%
55942	Strontium-90	1465	0.5	pci/g	U	0.25	35.00%
55953	Strontium-90	1467	0.5	pci/g	U	0.25	35.00%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
55957	Strontium-90	1469	0.5	pci/g	U	0.25	35.00%
110340	Strontium-90	11188	0.498	pci/g	UJ	0.249	33.70%
112520	Strontium-90	11187	0.494	pci/g	UJ	0.247	32.50%
110338	Strontium-90	1969	0.491	pci/g	UJ	0.2455	30.00%
110343	Strontium-90	SF-SS-16	0.491	pci/g	UJ	0.2455	30.00%
110304	Strontium-90	1977	0.485	pci/g	UJ	0.2425	28.70%
110365	Strontium-90	SF-SS-19	0.481	pci/g	UJ	0.2405	27.50%
112696	Strontium-90	1967	0.48	pci/g	UJ	0.24	26.20%
110396	Strontium-90	1968	0.478	pci/g	UJ	0.239	25.00%
110382	Strontium-90	1972	0.46	pci/g	UJ	0.23	22.50%
110571	Strontium-90	1977	0.46	pci/g	UJ	0.23	22.50%
112731	Strontium-90	1967	0.441	pci/g	UJ	0.2205	21.20%
110415	Strontium-90	11187	0.431	pci/g	UJ	0.2155	20.00%
110392	Strontium-90	1968	0.428	pci/g	UJ	0.214	18.70%
110321	Strontium-90		0.42	pci/g	UJ	0.21	16.20%
110372	Strontium-90	1970	0.42	pci/g	UJ	0.21	16.20%
112835	Strontium-90	1968	0.412	pci/g	UJ	0.206	15.00%
110406	Strontium-90	1978	0.41	pci/g	UJ	0.205	13.70%
112494	Strontium-90	1972	0.4	pci/g	UJ	0.2	12.50%
110317	Strontium-90		0.396	pci/g	UJ	0.198	11.20%
110355	Strontium-90	1966	0.393	pci/g	UJ	0.1965	10.00%
110378	Strontium-90	1972	0.387	pci/g	UJ	0.1935	8.70%
110413	Strontium-90	11186	0.382	pci/g	UJ	0.191	7.50%
110358	Strontium-90	1967	0.36	pci/g	UJ	0.18	6.20%
110327	Strontium-90	1971	0.359	pci/g	UJ	0.1795	5.00%
110405	Strontium-90	1966	0.352	pci/g	UJ	0.176	3.70%
110385	Strontium-90	1975	0.16	pci/g	J	0.16	2.50%
113105	Strontium-90		0.25	pci/g	U	0.125	1.20%
113722	Strontium-90		0.21	pci/g	UJ	0.105	.00%

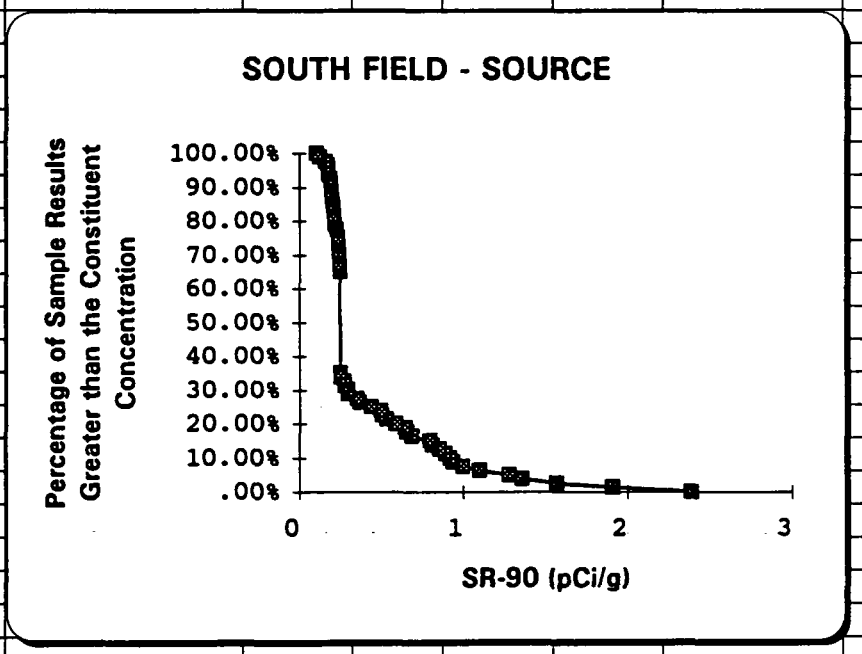

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110385	Technetium-99	1975	142	pci/g	J	142	100.00%
055968	Technetium-99	1471	0.9	pci/g	-	0.9	96.55%
055967	Technetium-99	1470	0.9	pci/g	-	0.9	96.55%
047019	Technetium-99	1433	0.9	pci/g	UJ	0.45	87.93%
055966	Technetium-99	1470	0.9	pci/g	U	0.45	87.93%
055970	Technetium-99	1472	0.9	pci/g	U	0.45	87.93%
055971	Technetium-99	1472	0.9	pci/g	U	0.45	87.93%
055969	Technetium-99	1471	0.9	pci/g	U	0.45	87.93%
113722	Technetium-99		0.66	pci/g	UJ	0.33	86.20%
113105	Technetium-99		0.54	pci/g	UJ	0.27	84.48%
112648	Technetium-99	1964	0.46	pci/g	UJ	0.23	82.75%
112893	Technetium-99	1970	0.45	pci/g	UJ	0.225	81.03%
112859	Technetium-99	1966	0.416	pci/g	UJ	0.208	79.31%
112690	Technetium-99	1970	0.41	pci/g	UJ	0.205	77.58%
112520	Technetium-99	11187	0.407	pci/g	UJ	0.2035	75.86%
112545	Technetium-99	1975	0.405	pci/g	UJ	0.2025	74.13%
110571	Technetium-99	1977	0.4	pci/g	UJ	0.2	70.68%
112696	Technetium-99	1967	0.4	pci/g	UJ	0.2	70.68%
112731	Technetium-99	1967	0.399	pci/g	UJ	0.1995	68.96%
112835	Technetium-99	1968	0.396	pci/g	UJ	0.198	67.24%
110355	Technetium-99	1966	0.392	pci/g	UJ	0.196	65.51%
110547	Technetium-99	11188	0.39	pci/g	UJ	0.195	63.79%
112507	Technetium-99	11186	0.386	pci/g	UJ	0.193	62.06%
112737	Technetium-99	1965	0.385	pci/g	UJ	0.1925	60.34%
112494	Technetium-99	1972	0.38	pci/g	UJ	0.19	58.62%
110378	Technetium-99	1972	0.377	pci/g	UJ	0.1885	56.89%
110321	Technetium-99		0.374	pci/g	UJ	0.187	55.17%
110415	Technetium-99	11187	0.372	pci/g	UJ	0.186	53.44%
110297	Technetium-99	SF-SS-17	0.371	pci/g	UJ	0.1855	50.00%
110317	Technetium-99		0.371	pci/g	UJ	0.1855	50.00%
110372	Technetium-99	1970	0.368	pci/g	UJ	0.184	48.27%
110304	Technetium-99	1977	0.365	pci/g	UJ	0.1825	44.82%
110584	Technetium-99	1972	0.365	pci/g	UJ	0.1825	44.82%
110290	Technetium-99	SF-SS-20	0.363	pci/g	UJ	0.1815	43.10%
110307	Technetium-99	SF-SS-21	0.362	pci/g	UJ	0.181	41.37%
110287	Technetium-99	SF-SS-18	0.361	pci/g	UJ	0.1805	36.20%
110382	Technetium-99	1972	0.361	pci/g	UJ	0.1805	36.20%
110335	Technetium-99	1978	0.361	pci/g	UJ	0.1805	36.20%
110579	Technetium-99	1977	0.36	pci/g	UJ	0.18	34.48%
110327	Technetium-99	1971	0.357	pci/g	UJ	0.1785	32.75%
110406	Technetium-99	1978	0.355	pci/g	UJ	0.1775	31.03%
110413	Technetium-99	11186	0.351	pci/g	UJ	0.1755	29.31%
110389	Technetium-99	1975	0.35	pci/g	UJ	0.175	27.58%
112536	Technetium-99	1971	0.348	pci/g	UJ	0.174	25.86%
110343	Technetium-99	SF-SS-16	0.346	pci/g	UJ	0.173	24.13%
110392	Technetium-99	1968	0.345	pci/g	UJ	0.1725	22.41%
110339	Technetium-99	1969	0.344	pci/g	UJ	0.172	20.68%
110340	Technetium-99	11188	0.343	pci/g	UJ	0.1715	17.24%
110362	Technetium-99	1967	0.343	pci/g	UJ	0.1715	17.24%
110331	Technetium-99	1964	0.342	pci/g	UJ	0.171	13.79%
110405	Technetium-99	1966	0.342	pci/g	UJ	0.171	13.79%
110365	Technetium-99	SF-SS-19	0.339	pci/g	UJ	0.1695	12.06%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110324	Technetium-99	1971	0.335	pci/g	UJ	0.1675	10.34%
110351	Technetium-99	1965	0.333	pci/g	UJ	0.1665	8.62%
112559	Technetium-99	1969	0.331	pci/g	UJ	0.1655	6.89%
110338	Technetium-99	1969	0.33	pci/g	UJ	0.165	5.17%
110369	Technetium-99	SF-SS-19	0.324	pci/g	UJ	0.162	3.44%
110396	Technetium-99	1968	0.322	pci/g	UJ	0.161	1.72%
110358	Technetium-99	1967	0.31	pci/g	UJ	0.155	0.00%

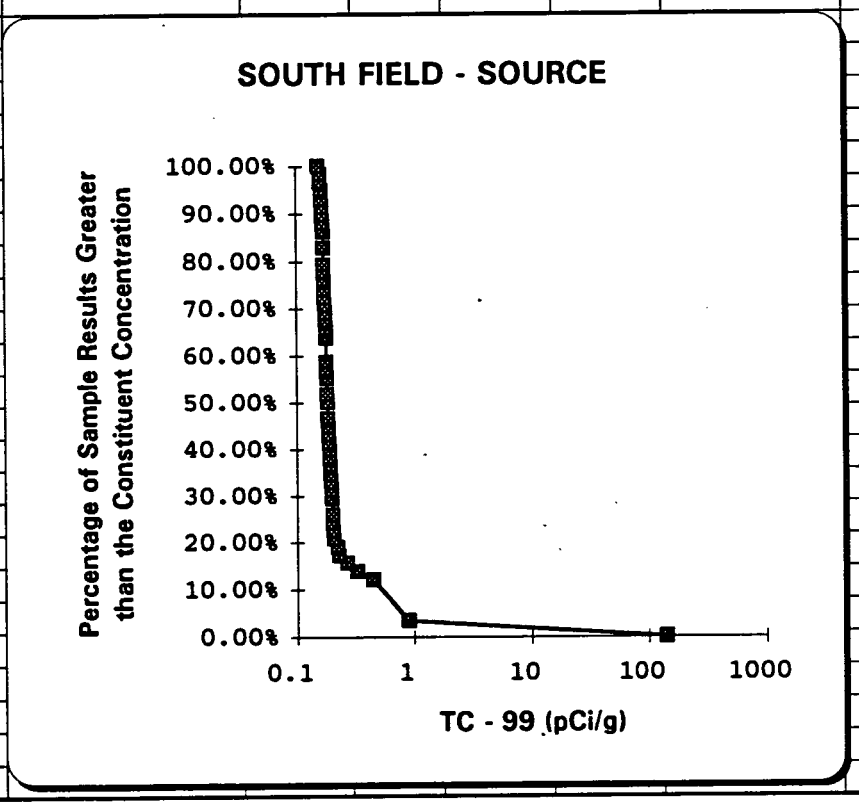

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
113725	Thorium-228		595	pci/g	-	595	100.00%
047019	Thorium-228	1433	20.3	pci/g	J	20.3	98.76%
113724	Thorium-228		13.4	pci/g	-	13.4	97.53%
055930	Thorium-228	1463	5.32	pci/g	J	5.32	96.29%
110355	Thorium-228	1966	4.41	pci/g	-	4.41	95.06%
110405	Thorium-228	1966	2.86	pci/g	-	2.86	93.82%
055904	Thorium-228	1457	2.63	pci/g	J	2.63	92.59%
113105	Thorium-228		2.55	pci/g	J	2.55	91.35%
110415	Thorium-228	11187	2.09	pci/g	-	2.09	90.12%
055914	Thorium-228	1458	2.06	pci/g	J	2.06	88.88%
055913	Thorium-228	1458	1.78	pci/g	J	1.78	87.65%
055927	Thorium-228	1461	1.72	pci/g	J	1.72	86.41%
110321	Thorium-228		1.71	pci/g	-	1.71	85.18%
055916	Thorium-228	1459	1.62	pci/g	J	1.62	83.95%
055900	Thorium-228	1455	1.52	pci/g	J	1.52	81.48%
055915	Thorium-228	1459	1.52	pci/g	J	1.52	81.48%
055940	Thorium-228	1464	1.48	pci/g	J	1.48	80.24%
055901	Thorium-228	1455	1.42	pci/g	J	1.42	79.01%
055944	Thorium-228	1466	1.35	pci/g	J	1.35	77.77%
055905	Thorium-228	1457	1.3	pci/g	J	1.3	76.54%
112520	Thorium-228	11187	1.28	pci/g	-	1.28	74.07%
055917	Thorium-228	1460	1.28	pci/g	J	1.28	74.07%
055926	Thorium-228	1461	1.27	pci/g	J	1.27	71.60%
055929	Thorium-228	1462	1.27	pci/g	J	1.27	71.60%
055918	Thorium-228	1460	1.26	pci/g	J	1.26	70.37%
110317	Thorium-228		1.25	pci/g	-	1.25	67.90%
055903	Thorium-228	1456	1.25	pci/g	J	1.25	67.90%
055969	Thorium-228	1471	1.24	pci/g	-	1.24	66.66%
055931	Thorium-228	1463	1.22	pci/g	J	1.22	64.19%
055942	Thorium-228	1465	1.22	pci/g	J	1.22	64.19%
112545	Thorium-228	1975	1.2	pci/g	-	1.2	62.96%
055955	Thorium-228	1468	1.19	pci/g	J	1.19	61.72%
055941	Thorium-228	1465	1.12	pci/g	J	1.12	59.25%
055953	Thorium-228	1467	1.12	pci/g	J	1.12	59.25%
055966	Thorium-228	1470	1.1	pci/g	-	1.1	56.79%
008014	Thorium-228	1046	1.1	pci/g	-	1.1	56.79%
110343	Thorium-228	SF-SS-16	1.08	pci/g	-	1.08	55.55%
055902	Thorium-228	1456	1.07	pci/g	J	1.07	53.08%
055971	Thorium-228	1472	1.07	pci/g	-	1.07	53.08%
110304	Thorium-228	1977	1.06	pci/g	-	1.06	51.85%
110413	Thorium-228	11186	1.05	pci/g	-	1.05	49.38%
055967	Thorium-228	1470	1.05	pci/g	-	1.05	49.38%
110372	Thorium-228	1970	1.03	pci/g	-	1.03	48.14%
110335	Thorium-228	1978	1.02	pci/g	-	1.02	46.91%
055970	Thorium-228	1472	0.999	pci/g	-	0.999	45.67%
112731	Thorium-228	1967	0.995	pci/g	J	0.995	44.44%
112507	Thorium-228	11186	0.991	pci/g	-	0.991	43.20%
055939	Thorium-228	1464	0.983	pci/g	J	0.983	40.74%
055952	Thorium-228	1467	0.983	pci/g	J	0.983	40.74%
055928	Thorium-228	1462	0.982	pci/g	J	0.982	39.50%
110385	Thorium-228	1975	0.98	pci/g	-	0.98	38.27%
110547	Thorium-228	11188	0.979	pci/g	-	0.979	37.03%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110327	Thorium-228	1971	0.965	pci/g	-	0.965	35.80%
055957	Thorium-228	1469	0.954	pci/g	J	0.954	34.56%
110584	Thorium-228	1972	0.94	pci/g	-	0.94	33.33%
112835	Thorium-228	1968	0.915	pci/g	J	0.915	32.09%
110331	Thorium-228	1964	0.911	pci/g	-	0.911	30.86%
110571	Thorium-228	1977	0.91	pci/g	-	0.91	29.62%
055954	Thorium-228	1468	0.909	pci/g	J	0.909	28.39%
112648	Thorium-228	1964	0.9	pci/g	-	0.9	27.16%
110406	Thorium-228	1978	0.884	pci/g	-	0.884	25.92%
112893	Thorium-228	1970	0.88	pci/g	-	0.88	23.45%
110579	Thorium-228	1977	0.88	pci/g	-	0.88	23.45%
055956	Thorium-228	1469	0.877	pci/g	J	0.877	22.22%
110339	Thorium-228	1969	0.876	pci/g	-	0.876	20.98%
055968	Thorium-228	1471	0.874	pci/g	-	0.874	19.75%
110392	Thorium-228	1968	0.867	pci/g	-	0.867	18.51%
110365	Thorium-228	SF-SS-19	0.863	pci/g	-	0.863	17.28%
110369	Thorium-228	SF-SS-19	0.853	pci/g	-	0.853	16.04%
110396	Thorium-228	1968	0.85	pci/g	-	0.85	13.58%
110389	Thorium-228	1975	0.85	pci/g	-	0.85	13.58%
055943	Thorium-228	1466	0.824	pci/g	J	0.824	12.34%
110340	Thorium-228	11188	0.823	pci/g	-	0.823	11.11%
110287	Thorium-228	SF-SS-18	0.815	pci/g	-	0.815	9.87%
110351	Thorium-228	1965	0.77	pci/g	-	0.77	7.40%
112690	Thorium-228	1970	0.77	pci/g	-	0.77	7.40%
112737	Thorium-228	1965	0.75	pci/g	J	0.75	6.17%
112696	Thorium-228	1967	0.74	pci/g	-	0.74	4.93%
110362	Thorium-228	1967	0.731	pci/g	-	0.731	3.70%
110324	Thorium-228	1971	0.684	pci/g	-	0.684	2.46%
112494	Thorium-228	1972	0.67	pci/g	-	0.67	1.23%
110338	Thorium-228	1969	0.658	pci/g	-	0.658	0.00%

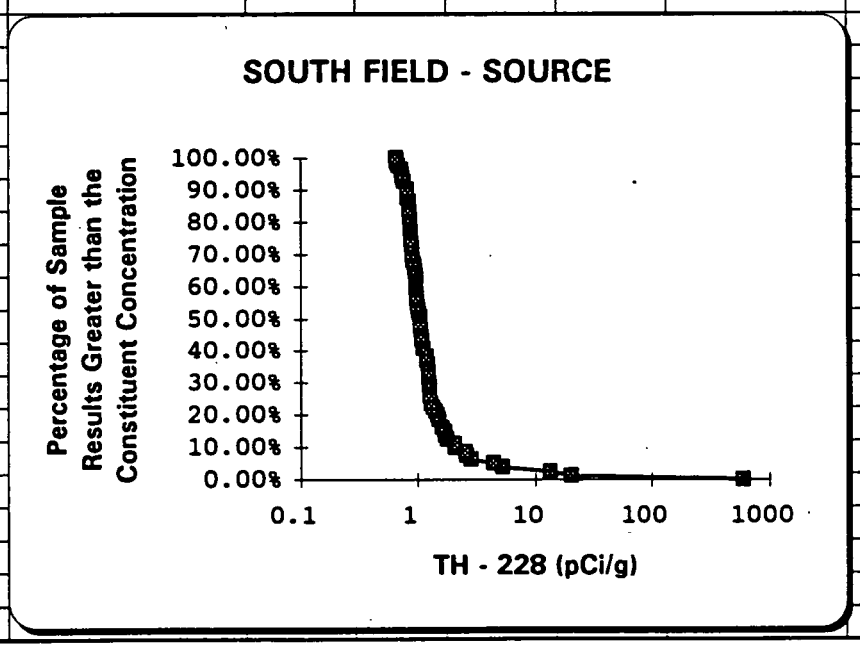

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055904	Thorium-230	1457	57.3	pci/g	J	57.3	100.00%
113725	Thorium-230		51.6	pci/g	-	51.6	98.76%
113724	Thorium-230		37.6	pci/g	-	37.6	97.53%
110317	Thorium-230		13.8	pci/g	-	13.8	96.29%
110355	Thorium-230	1966	12.1	pci/g	-	12.1	95.06%
055900	Thorium-230	1455	10.3	pci/g	J	10.3	93.82%
113105	Thorium-230		6.27	pci/g	J	6.27	92.59%
047019	Thorium-230	1433	5.86	pci/g	J	5.86	91.35%
110405	Thorium-230	1966	4.65	pci/g	-	4.65	90.12%
055914	Thorium-230	1458	4.41	pci/g	J	4.41	88.88%
055930	Thorium-230	1463	4.39	pci/g	J	4.39	87.65%
112696	Thorium-230	1967	4.35	pci/g	-	4.35	86.41%
110584	Thorium-230	1972	4.18	pci/g	-	4.18	85.18%
055926	Thorium-230	1461	4.12	pci/g	J	4.12	83.95%
110389	Thorium-230	1975	4.06	pci/g	-	4.06	82.71%
110385	Thorium-230	1975	3.52	pci/g	-	3.52	81.48%
055928	Thorium-230	1462	3.33	pci/g	J	3.33	80.24%
055918	Thorium-230	1460	3.22	pci/g	J	3.22	79.01%
110413	Thorium-230	11186	3.19	pci/g	-	3.19	77.77%
055913	Thorium-230	1458	3.18	pci/g	J	3.18	76.54%
110415	Thorium-230	11187	3.01	pci/g	-	3.01	75.30%
055970	Thorium-230	1472	2.86	pci/g	-	2.86	74.07%
112737	Thorium-230	1965	2.81	pci/g	J	2.81	72.83%
112520	Thorium-230	11187	2.61	pci/g	-	2.61	71.60%
110365	Thorium-230	SF-SS-19	2.33	pci/g	-	2.33	70.37%
110321	Thorium-230		2.22	pci/g	-	2.22	69.13%
110372	Thorium-230	1970	2.21	pci/g	-	2.21	67.90%
055905	Thorium-230	1457	2.16	pci/g	J	2.16	65.43%
055916	Thorium-230	1459	2.16	pci/g	J	2.16	65.43%
055927	Thorium-230	1461	2.13	pci/g	J	2.13	64.19%
055901	Thorium-230	1455	2.12	pci/g	J	2.12	62.96%
110343	Thorium-230	SF-SS-16	2.06	pci/g	-	2.06	60.49%
055929	Thorium-230	1462	2.06	pci/g	J	2.06	60.49%
055931	Thorium-230	1463	2.01	pci/g	J	2.01	59.25%
112507	Thorium-230	11186	2	pci/g	-	2	58.02%
055953	Thorium-230	1467	1.99	pci/g	J	1.99	56.79%
110392	Thorium-230	1968	1.98	pci/g	-	1.98	55.55%
112731	Thorium-230	1967	1.96	pci/g	J	1.96	54.32%
055966	Thorium-230	1470	1.94	pci/g	-	1.94	53.08%
110396	Thorium-230	1968	1.93	pci/g	-	1.93	50.61%
110369	Thorium-230	SF-SS-19	1.93	pci/g	-	1.93	50.61%
110304	Thorium-230	1977	1.92	pci/g	-	1.92	49.38%
055969	Thorium-230	1471	1.9	pci/g	-	1.9	48.14%
055940	Thorium-230	1464	1.82	pci/g	J	1.82	45.67%
055955	Thorium-230	1468	1.82	pci/g	J	1.82	45.67%
110335	Thorium-230	1978	1.81	pci/g	-	1.81	44.44%
055903	Thorium-230	1456	1.78	pci/g	J	1.78	43.20%
112648	Thorium-230	1964	1.77	pci/g	-	1.77	41.97%
055917	Thorium-230	1460	1.73	pci/g	J	1.73	40.74%
110340	Thorium-230	11188	1.7	pci/g	-	1.7	38.27%
055952	Thorium-230	1467	1.7	pci/g	J	1.7	38.27%
112545	Thorium-230	1975	1.69	pci/g	-	1.69	37.03%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055971	Thorium-230	1472	1.65	pci/g	-	1.65	35.80%
055967	Thorium-230	1470	1.63	pci/g	-	1.63	34.56%
055954	Thorium-230	1468	1.61	pci/g	J	1.61	33.33%
055915	Thorium-230	1459	1.56	pci/g	J	1.56	32.09%
112690	Thorium-230	1970	1.55	pci/g	-	1.55	30.86%
110287	Thorium-230	SF-SS-18	1.53	pci/g	-	1.53	29.62%
110327	Thorium-230	1971	1.52	pci/g	-	1.52	28.39%
110547	Thorium-230	11188	1.46	pci/g	-	1.46	25.92%
055939	Thorium-230	1464	1.46	pci/g	J	1.46	25.92%
055944	Thorium-230	1466	1.44	pci/g	J	1.44	24.69%
055942	Thorium-230	1465	1.41	pci/g	J	1.41	23.45%
110571	Thorium-230	1977	1.38	pci/g	-	1.38	22.22%
055902	Thorium-230	1456	1.37	pci/g	J	1.37	20.98%
110331	Thorium-230	1964	1.35	pci/g	-	1.35	19.75%
112893	Thorium-230	1970	1.32	pci/g	-	1.32	18.51%
110339	Thorium-230	1969	1.31	pci/g	-	1.31	16.04%
110406	Thorium-230	1978	1.31	pci/g	-	1.31	16.04%
055943	Thorium-230	1466	1.3	pci/g	J	1.3	12.34%
055941	Thorium-230	1465	1.3	pci/g	J	1.3	12.34%
008014	Thorium-230	1046	1.3	pci/g	-	1.3	12.34%
112835	Thorium-230	1968	1.25	pci/g	J	1.25	11.11%
055968	Thorium-230	1471	1.22	pci/g	-	1.22	9.87%
055956	Thorium-230	1469	1.2	pci/g	J	1.2	8.64%
055957	Thorium-230	1469	1.19	pci/g	J	1.19	7.40%
110338	Thorium-230	1969	1.07	pci/g	-	1.07	6.17%
110362	Thorium-230	1967	1.04	pci/g	-	1.04	4.93%
110579	Thorium-230	1977	1	pci/g	-	1	3.70%
112494	Thorium-230	1972	0.83	pci/g	-	0.83	2.46%
110324	Thorium-230	1971	0.158	pci/g	-	0.158	1.23%
110351	Thorium-230	1965	0.117	pci/g	-	0.117	0.00%

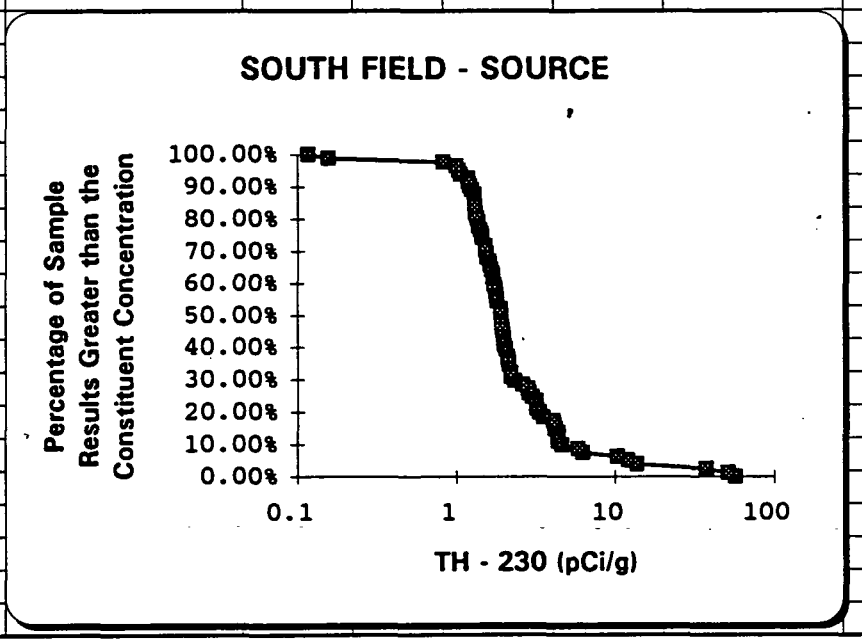

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
113725	Thorium-232	-	600	pci/g	-	600	100.00%
047019	Thorium-232	1433	17.5	pci/g	J	17.5	98.76%
113724	Thorium-232		12.9	pci/g	-	12.9	97.53%
110355	Thorium-232	1966	3.99	pci/g	-	3.99	96.29%
055904	Thorium-232	1457	3.44	pci/g	-	3.44	95.06%
113105	Thorium-232		3.18	pci/g	J	3.18	93.82%
110405	Thorium-232	1966	2.86	pci/g	-	2.86	92.59%
055914	Thorium-232	1458	1.87	pci/g	-	1.87	91.35%
055913	Thorium-232	1458	1.74	pci/g	-	1.74	90.12%
110415	Thorium-232	11187	1.52	pci/g	-	1.52	88.88%
110321	Thorium-232		1.42	pci/g	-	1.42	87.65%
055927	Thorium-232	1461	1.4	pci/g	-	1.4	86.41%
055916	Thorium-232	1459	1.33	pci/g	-	1.33	85.18%
055915	Thorium-232	1459	1.31	pci/g	-	1.31	83.95%
112520	Thorium-232	11187	1.29	pci/g	-	1.29	80.24%
055900	Thorium-232	1455	1.29	pci/g	-	1.29	80.24%
055905	Thorium-232	1457	1.29	pci/g	-	1.29	80.24%
055929	Thorium-232	1462	1.27	pci/g	-	1.27	79.01%
055940	Thorium-232	1464	1.23	pci/g	-	1.23	77.77%
110317	Thorium-232		1.2	pci/g	-	1.2	76.54%
055901	Thorium-232	1455	1.19	pci/g	-	1.19	75.30%
055953	Thorium-232	1467	1.18	pci/g	J	1.18	74.07%
112545	Thorium-232	1975	1.17	pci/g	-	1.17	72.83%
055931	Thorium-232	1463	1.16	pci/g	-	1.16	71.60%
055944	Thorium-232	1466	1.14	pci/g	-	1.14	70.37%
055955	Thorium-232	1468	1.13	pci/g	J	1.13	69.13%
055918	Thorium-232	1460	1.12	pci/g	-	1.12	67.90%
055966	Thorium-232	1470	1.08	pci/g	-	1.08	66.66%
110392	Thorium-232	1968	1.07	pci/g	-	1.07	65.43%
055926	Thorium-232	1461	1.05	pci/g	-	1.05	60.49%
055928	Thorium-232	1462	1.05	pci/g	-	1.05	60.49%
055903	Thorium-232	1456	1.05	pci/g	-	1.05	60.49%
055971	Thorium-232	1472	1.05	pci/g	-	1.05	60.49%
055902	Thorium-232	1456	1.03	pci/g	-	1.03	59.25%
110406	Thorium-232	1978	1	pci/g	-	1	55.55%
110584	Thorium-232	1972	1	pci/g	-	1	55.55%
055969	Thorium-232	1471	1	pci/g	-	1	55.55%
112507	Thorium-232	11186	0.985	pci/g	-	0.985	54.32%
110547	Thorium-232	11188	0.975	pci/g	-	0.975	53.08%
055941	Thorium-232	1465	0.969	pci/g	-	0.969	51.85%
112835	Thorium-232	1968	0.967	pci/g	J	0.967	50.61%
055917	Thorium-232	1460	0.959	pci/g	-	0.959	49.38%
110339	Thorium-232	1969	0.952	pci/g	-	0.952	48.14%
110413	Thorium-232	11186	0.951	pci/g	-	0.951	46.91%
110362	Thorium-232	1967	0.938	pci/g	-	0.938	45.67%
112893	Thorium-232	1970	0.93	pci/g	-	0.93	44.44%
110287	Thorium-232	SF-SS-18	0.929	pci/g	-	0.929	43.20%
110340	Thorium-232	11188	0.927	pci/g	-	0.927	41.97%
110372	Thorium-232	1970	0.922	pci/g	-	0.922	40.74%
112690	Thorium-232	1970	0.92	pci/g	-	0.92	39.50%
110335	Thorium-232	1978	0.903	pci/g	-	0.903	37.03%
055967	Thorium-232	1470	0.903	pci/g	-	0.903	37.03%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055970	Thorium-232	1472	0.895	pci/g	-	0.895	35.80%
110327	Thorium-232	1971	0.892	pci/g	-	0.892	34.56%
055957	Thorium-232	1469	0.885	pci/g	J	0.885	33.33%
110304	Thorium-232	1977	0.859	pci/g	-	0.859	32.09%
055942	Thorium-232	1465	0.856	pci/g	-	0.856	30.86%
055968	Thorium-232	1471	0.85	pci/g	-	0.85	29.62%
110331	Thorium-232	1964	0.849	pci/g	-	0.849	28.39%
110396	Thorium-232	1968	0.84	pci/g	-	0.84	24.69%
112696	Thorium-232	1967	0.84	pci/g	-	0.84	24.69%
055943	Thorium-232	1466	0.84	pci/g	-	0.84	24.69%
110369	Thorium-232	SF-SS-19	0.839	pci/g	-	0.839	23.45%
110343	Thorium-232	SF-SS-16	0.835	pci/g	-	0.835	22.22%
055939	Thorium-232	1464	0.833	pci/g	-	0.833	20.98%
112737	Thorium-232	1965	0.83	pci/g	J	0.83	19.75%
110351	Thorium-232	1965	0.825	pci/g	-	0.825	18.51%
110571	Thorium-232	1977	0.82	pci/g	-	0.82	16.04%
110579	Thorium-232	1977	0.82	pci/g	-	0.82	16.04%
110324	Thorium-232	1971	0.813	pci/g	-	0.813	14.81%
008014	Thorium-232	1046	0.8	pci/g	-	0.8	13.58%
112731	Thorium-232	1967	0.796	pci/g	J	0.796	12.34%
110389	Thorium-232	1975	0.78	pci/g	-	0.78	11.11%
055954	Thorium-232	1468	0.773	pci/g	J	0.773	9.87%
112648	Thorium-232	1964	0.76	pci/g	-	0.76	8.64%
055930	Thorium-232	1463	0.734	pci/g	-	0.734	7.40%
110338	Thorium-232	1969	0.728	pci/g	-	0.728	6.17%
055952	Thorium-232	1467	0.703	pci/g	J	0.703	4.93%
110365	Thorium-232	SF-SS-19	0.674	pci/g	-	0.674	3.70%
112494	Thorium-232	1972	0.6	pci/g	J	0.6	2.46%
055956	Thorium-232	1469	0.6	pci/g	UJ	0.3	1.23%
110385	Thorium-232	1975	0.19	pci/g	-	0.19	0.00%

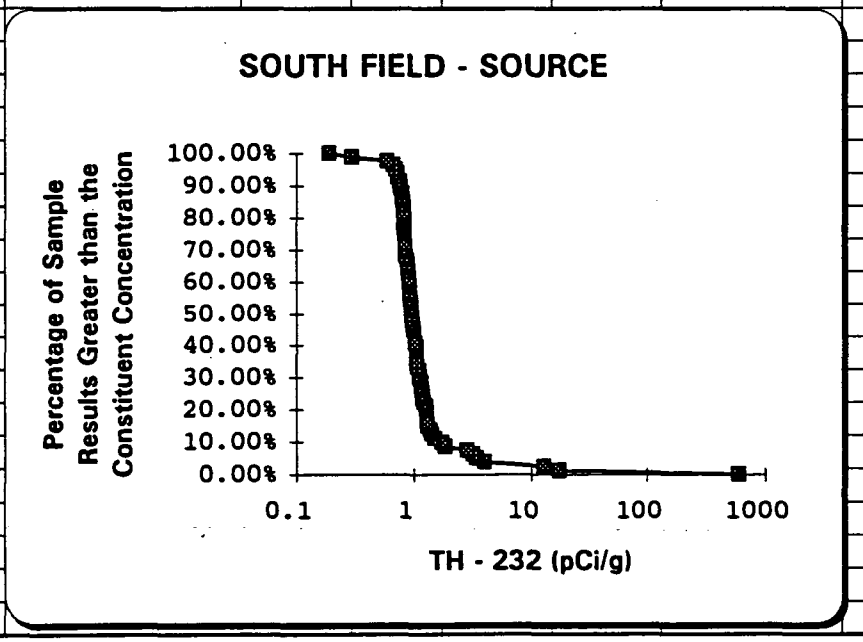

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
113722	Uranium, Total		1170	mg/kg	-	1170	100.00%
113724	Uranium, Total		725	mg/kg	-	725	98.83%
055917	Uranium, Total	1460	394	mg/kg	J	394	97.67%
112520	Uranium, Total	11187	297	mg/kg	-	297	96.51%
055918	Uranium, Total	1460	230	mg/kg	J	230	95.34%
055915	Uranium, Total	1459	228	mg/kg	J	228	94.18%
055916	Uranium, Total	1459	189	mg/kg	J	189	93.02%
113105	Uranium, Total		165	mg/kg	-	165	91.86%
047019	Uranium, Total	1433	128	mg/kg	-	128	90.69%
055930	Uranium, Total	1463	121	mg/kg	-	121	89.53%
110415	Uranium, Total	11187	91.5	mg/kg	-	91.5	88.37%
055913	Uranium, Total	1458	76.1	mg/kg	J	76.1	87.20%
055904	Uranium, Total	1457	71.4	mg/kg	J	71.4	86.04%
055914	Uranium, Total	1458	59.8	mg/kg	J	59.8	84.88%
110321	Uranium, Total		50.6	mg/kg	-	50.6	83.72%
110351	Uranium, Total	1965	49	mg/kg	-	49	82.55%
110584	Uranium, Total	1972	47.6	mg/kg	-	47.6	81.39%
055900	Uranium, Total	1455	42.6	mg/kg	J	42.6	80.23%
110355	Uranium, Total	1966	38.1	mg/kg	-	38.1	79.06%
110290	Uranium, Total	SF-SS-20	36.4	mg/kg	-	36.4	77.90%
110382	Uranium, Total	1972	36.2	mg/kg	-	36.2	76.74%
110317	Uranium, Total		36	mg/kg	-	36	75.58%
110571	Uranium, Total	1977	35.9	mg/kg	-	35.9	74.41%
110405	Uranium, Total	1966	31.72	mg/kg	-	31.72	73.25%
110392	Uranium, Total	1968	31.2	mg/kg	-	31.2	72.09%
110396	Uranium, Total	1968	30	mg/kg	-	30	70.93%
110389	Uranium, Total	1975	29.7	mg/kg	J	29.7	69.76%
110413	Uranium, Total	11186	29	mg/kg	-	29	68.60%
110297	Uranium, Total	SF-SS-17	28.4	mg/kg	-	28.4	67.44%
110378	Uranium, Total	1972	28.3	mg/kg	-	28.3	66.27%
055902	Uranium, Total	1456	27.7	mg/kg	J	27.7	65.11%
110372	Uranium, Total	1970	27.4	mg/kg	-	27.4	63.95%
110324	Uranium, Total	1971	25.5	mg/kg	-	25.5	62.79%
110307	Uranium, Total	SF-SS-21	24.5	mg/kg	-	24.5	61.62%
110385	Uranium, Total	1975	23.8	mg/kg	-	23.8	60.46%
112737	Uranium, Total	1965	20.6	mg/kg	-	20.6	59.30%
112690	Uranium, Total	1970	20.4	mg/kg	J	20.4	58.13%
055928	Uranium, Total	1462	19.4	mg/kg	J	19.4	56.97%
055926	Uranium, Total	1461	19.1	mg/kg	J	19.1	55.81%
110304	Uranium, Total	1977	19	mg/kg	-	19	54.65%
110335	Uranium, Total	1978	18.8	mg/kg	-	18.8	53.48%
110287	Uranium, Total	SF-SS-18	17.2	mg/kg	-	17.2	52.32%
113725	Uranium, Total		34	mg/kg	U	17	51.16%
110338	Uranium, Total	1969	16.7	mg/kg	-	16.7	47.67%
110327	Uranium, Total	1971	16.7	mg/kg	-	16.7	47.67%
112648	Uranium, Total	1964	16.7	mg/kg	J	16.7	47.67%
110365	Uranium, Total	SF-SS-19	16.3	mg/kg	-	16.3	46.51%
112893	Uranium, Total	1970	16.2	mg/kg	J	16.2	45.34%
112696	Uranium, Total	1967	15.3	mg/kg	J	15.3	44.18%
112835	Uranium, Total	1968	14.9	mg/kg	-	14.9	43.02%
055929	Uranium, Total	1462	14.8	mg/kg	J	14.8	41.86%
112494	Uranium, Total	1972	14.4	mg/kg	-	14.4	40.69%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112859	Uranium, Total	1966	13.9	mg/kg	-	13.9	39.53%
110358	Uranium, Total	1967	12.5	mg/kg	-	12.5	37.20%
110369	Uranium, Total	SF-SS-19	12.5	mg/kg	-	12.5	37.20%
055954	Uranium, Total	1468	12.26	mg/kg	J	12.26	36.04%
055905	Uranium, Total	1457	11.9	mg/kg	J	11.9	34.88%
055966	Uranium, Total	1470	11.6	mg/kg	-	11.6	32.55%
112545	Uranium, Total	1975	11.6	mg/kg	-	11.6	32.55%
055952	Uranium, Total	1467	11.38	mg/kg	-	11.38	31.39%
055956	Uranium, Total	1469	10.89	mg/kg	J	10.89	30.23%
110406	Uranium, Total	1978	10.7	mg/kg	-	10.7	29.06%
110331	Uranium, Total	1964	10.5	mg/kg	-	10.5	27.90%
110340	Uranium, Total	11188	10.4	mg/kg	-	10.4	26.74%
055901	Uranium, Total	1455	10.3	mg/kg	J	10.3	25.58%
055970	Uranium, Total	1472	10.2	mg/kg	-	10.2	24.41%
055971	Uranium, Total	1472	9.9	mg/kg	-	9.9	23.25%
110339	Uranium, Total	1969	9.85	mg/kg	-	9.85	22.09%
112731	Uranium, Total	1967	9.17	mg/kg	-	9.17	20.93%
055953	Uranium, Total	1467	8.59	mg/kg	-	8.59	19.76%
110362	Uranium, Total	1967	7.34	mg/kg	-	7.34	18.60%
055968	Uranium, Total	1471	6.89	mg/kg	-	6.89	17.44%
110547	Uranium, Total	11188	6.68	mg/kg	J	6.68	16.27%
055931	Uranium, Total	1463	5.52	mg/kg	J	5.52	15.11%
055969	Uranium, Total	1471	5.24	mg/kg	-	5.24	13.95%
055927	Uranium, Total	1461	5.17	mg/kg	J	5.17	12.79%
055967	Uranium, Total	1470	5.06	mg/kg	-	5.06	11.62%
055940	Uranium, Total	1464	5.03	mg/kg	J	5.03	10.46%
055957	Uranium, Total	1469	4.96	mg/kg	J	4.96	9.30%
112559	Uranium, Total	1969	4.82	mg/kg	-	4.82	8.13%
055944	Uranium, Total	1466	4.72	mg/kg	J	4.72	6.97%
055942	Uranium, Total	1465	4.26	mg/kg	J	4.26	5.81%
110579	Uranium, Total	1977	3.5	mg/kg	J	3.5	4.65%
112536	Uranium, Total	1971	2.58	mg/kg	J	2.58	3.48%
055955	Uranium, Total	1468	4.5	mg/kg	UJ	2.25	2.32%
110343	Uranium, Total	SF-SS-16	1.86	mg/kg	-	1.86	1.16%
112507	Uranium, Total	11186	1.8	mg/kg	-	1.8	0.00%

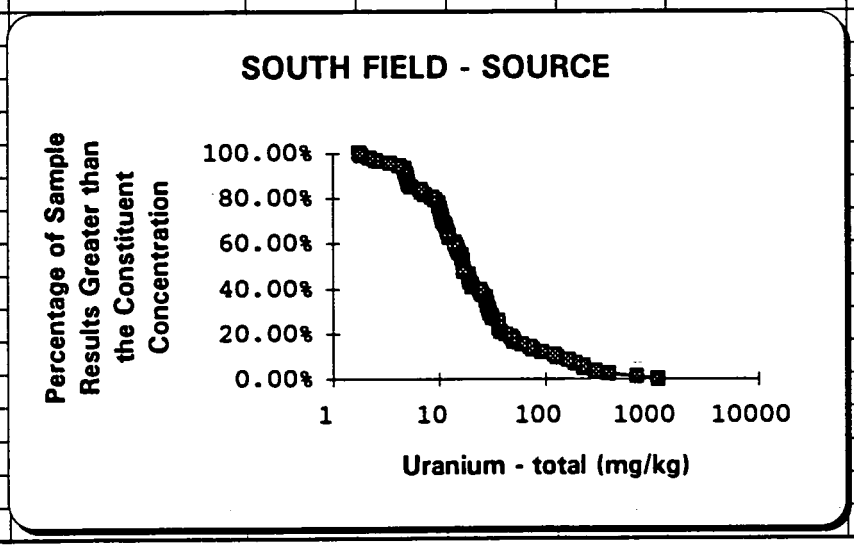

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
113722	Uranium-234		378	pci/g	N	378	100.00%
113724	Uranium-234		228	pci/g	-	228	98.88%
055917	Uranium-234	1460	119	pci/g	-	119	97.77%
055915	Uranium-234	1459	78.3	pci/g	-	78.3	96.66%
055918	Uranium-234	1460	75.7	pci/g	-	75.7	95.55%
055916	Uranium-234	1459	57.2	pci/g	-	57.2	94.44%
113105	Uranium-234		44.5	pci/g	-	44.5	93.33%
047019	Uranium-234	1433	41.2	pci/g	J	41.2	92.22%
110415	Uranium-234	11187	29.7	pci/g	-	29.7	91.11%
055904	Uranium-234	1457	26.4	pci/g	-	26.4	90.00%
055913	Uranium-234	1458	24.2	pci/g	-	24.2	88.88%
055914	Uranium-234	1458	22.4	pci/g	-	22.4	87.77%
055903	Uranium-234	1456	22.1	pci/g	-	22.1	86.66%
055930	Uranium-234	1463	19.7	pci/g	-	19.7	85.55%
113725	Uranium-234		17.7	pci/g	-	17.7	84.44%
110351	Uranium-234	1965	16.3	pci/g	-	16.3	83.33%
110584	Uranium-234	1972	15.2	pci/g	-	15.2	82.22%
110321	Uranium-234		13.7	pci/g	-	13.7	81.11%
055900	Uranium-234	1455	12.6	pci/g	-	12.6	80.00%
110290	Uranium-234	SF-SS-20	11.56	pci/g	J	11.56	78.88%
110355	Uranium-234	1966	10	pci/g	-	10	77.77%
110389	Uranium-234	1975	9.86	pci/g	-	9.86	76.66%
110392	Uranium-234	1968	9.71	pci/g	-	9.71	75.55%
110571	Uranium-234	1977	9.37	pci/g	-	9.37	74.44%
055902	Uranium-234	1456	9.36	pci/g	-	9.36	73.33%
110413	Uranium-234	11186	9.22	pci/g	-	9.22	72.22%
110396	Uranium-234	1968	9.13	pci/g	-	9.13	71.11%
110405	Uranium-234	1966	8.05	pci/g	-	8.05	70.00%
110317	Uranium-234		8.01	pci/g	-	8.01	68.88%
110307	Uranium-234	SF-SS-21	7.93	pci/g	J	7.93	67.77%
110382	Uranium-234	1972	7.48	pci/g	-	7.48	66.66%
110372	Uranium-234	1970	7.44	pci/g	-	7.44	65.55%
110385	Uranium-234	1975	6.62	pci/g	-	6.62	64.44%
110343	Uranium-234	SF-SS-16	6.44	pci/g	-	6.44	63.33%
110378	Uranium-234	1972	6.18	pci/g	-	6.18	62.22%
112507	Uranium-234	11186	6.05	pci/g	-	6.05	61.11%
110324	Uranium-234	1971	6.04	pci/g	-	6.04	60.00%
110327	Uranium-234	1971	5.05	pci/g	-	5.05	58.88%
055928	Uranium-234	1462	5.04	pci/g	-	5.04	57.77%
110335	Uranium-234	1978	4.98	pci/g	-	4.98	56.66%
110297	Uranium-234	SF-SS-17	4.94	pci/g	J	4.94	55.55%
055926	Uranium-234	1461	4.73	pci/g	-	4.73	54.44%
055929	Uranium-234	1462	4.71	pci/g	-	4.71	52.22%
055944	Uranium-234	1466	4.71	pci/g	-	4.71	52.22%
112494	Uranium-234	1972	4.48	pci/g	-	4.48	51.11%
110358	Uranium-234	1967	4.46	pci/g	-	4.46	50.00%
110365	Uranium-234	SF-SS-19	4.26	pci/g	-	4.26	48.88%
055905	Uranium-234	1457	4.06	pci/g	-	4.06	47.77%
055952	Uranium-234	1467	3.82	pci/g	J	3.82	46.66%
055966	Uranium-234	1470	3.79	pci/g	-	3.79	45.55%
112690	Uranium-234	1970	3.68	pci/g	-	3.68	44.44%
110338	Uranium-234	1969	3.58	pci/g	-	3.58	43.33%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055970	Uranium-234	1472	3.46	pci/g	-	3.46	42.22%
110331	Uranium-234	1964	3.43	pci/g	-	3.43	41.11%
055954	Uranium-234	1468	3.42	pci/g	J	3.42	40.00%
110304	Uranium-234	1977	3.32	pci/g	-	3.32	38.88%
055942	Uranium-234	1465	3.27	pci/g	-	3.27	37.77%
110339	Uranium-234	1969	3.24	pci/g	-	3.24	36.66%
110369	Uranium-234	SF-SS-19	3.22	pci/g	-	3.22	35.55%
110340	Uranium-234	11188	3.2	pci/g	-	3.2	34.44%
110406	Uranium-234	1978	3.19	pci/g	-	3.19	33.33%
112737	Uranium-234	1965	3.07	pci/g	-	3.07	32.22%
110287	Uranium-234	SF-SS-18	2.73	pci/g	J	2.73	31.11%
112648	Uranium-234	1964	2.59	pci/g	-	2.59	28.88%
055956	Uranium-234	1469	2.59	pci/g	J	2.59	28.88%
112696	Uranium-234	1967	2.5	pci/g	-	2.5	27.77%
112545	Uranium-234	1975	2.49	pci/g	-	2.49	26.66%
055901	Uranium-234	1455	2.44	pci/g	-	2.44	25.55%
110362	Uranium-234	1967	2.35	pci/g	-	2.35	24.44%
055971	Uranium-234	1472	2.13	pci/g	-	2.13	23.33%
055940	Uranium-234	1464	1.96	pci/g	-	1.96	22.22%
112859	Uranium-234	1966	1.78	pci/g	-	1.78	21.11%
110547	Uranium-234	11188	1.75	pci/g	-	1.75	20.00%
008014	Uranium-234	1046	1.7	pci/g	-	1.7	18.88%
055941	Uranium-234	1465	1.68	pci/g	-	1.68	17.77%
055968	Uranium-234	1471	1.52	pci/g	-	1.52	16.66%
055967	Uranium-234	1470	1.51	pci/g	-	1.51	15.55%
055927	Uranium-234	1461	1.49	pci/g	-	1.49	14.44%
112559	Uranium-234	1969	1.44	pci/g	-	1.44	13.33%
112835	Uranium-234	1968	1.36	pci/g	-	1.36	12.22%
055955	Uranium-234	1468	1.31	pci/g	J	1.31	11.11%
055931	Uranium-234	1463	1.15	pci/g	-	1.15	10.00%
055957	Uranium-234	1469	1.14	pci/g	J	1.14	8.88%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055943	Uranium-234	1466	1.13	pci/g	-	1.13	7.77%
110579	Uranium-234	1977	1.09	pci/g	-	1.09	6.66%
055939	Uranium-234	1464	1.08	pci/g	-	1.08	5.55%
112536	Uranium-234	1971	1.07	pci/g	-	1.07	4.44%
112893	Uranium-234	1970	1.06	pci/g	-	1.06	3.33%
055969	Uranium-234	1471	1.04	pci/g	-	1.04	2.22%
055953	Uranium-234	1467	0.965	pci/g	J	0.965	1.11%
112731	Uranium-234	1967	0.79	pci/g	-	0.79	0.00%

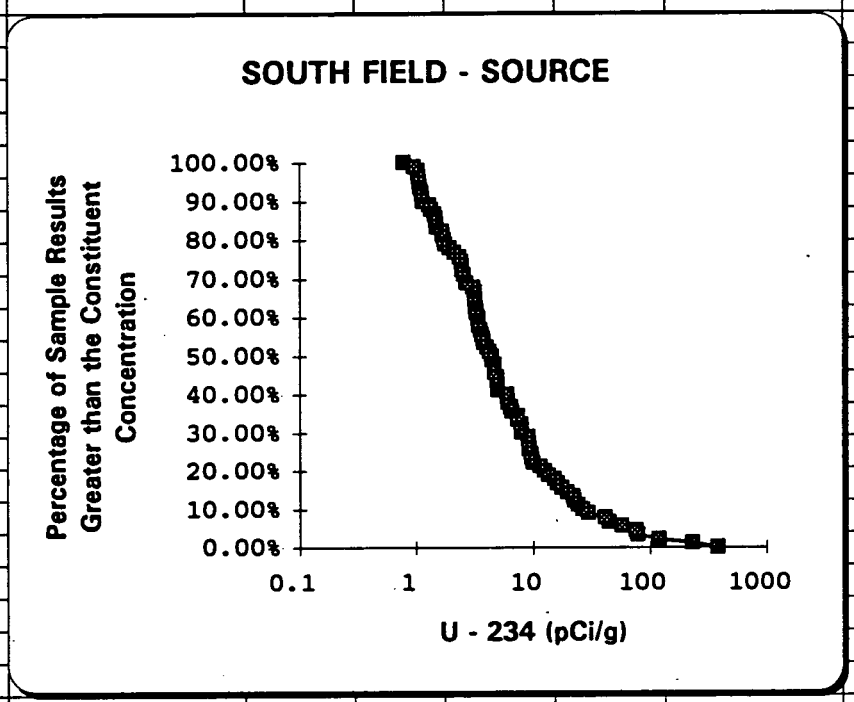

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055917	Uranium-235/236	1460	20.6	pci/g	-	20.6	100.00%
113722	Uranium-235/236		19.7	pci/g	N	19.7	98.88%
113724	Uranium-235/236		11.9	pci/g	-	11.9	97.77%
055915	Uranium-235/236	1459	4.05	pci/g	-	4.05	96.66%
055918	Uranium-235/236	1460	3.77	pci/g	-	3.77	95.55%
055916	Uranium-235/236	1459	2.73	pci/g	-	2.73	94.44%
113105	Uranium-235/236		2.62	pci/g	-	2.62	93.33%
055930	Uranium-235/236	1463	2.55	pci/g	J	2.55	92.22%
047019	Uranium-235/236	1433	2.24	pci/g	J	2.24	91.11%
055904	Uranium-235/236	1457	1.66	pci/g	-	1.66	90.00%
055913	Uranium-235/236	1458	1.58	pci/g	-	1.58	88.88%
110415	Uranium-235/236	11187	1.45	pci/g	-	1.45	87.77%
113725	Uranium-235/236		1.25	pci/g	-	1.25	86.66%
055914	Uranium-235/236	1458	1.18	pci/g	-	1.18	85.55%
055903	Uranium-235/236	1456	1.12	pci/g	-	1.12	84.44%
110351	Uranium-235/236	1965	0.887	pci/g	-	0.887	83.33%
110584	Uranium-235/236	1972	0.83	pci/g	-	0.83	82.22%
110321	Uranium-235/236		0.771	pci/g	-	0.771	81.11%
055941	Uranium-235/236	1465	0.757	pci/g	J	0.757	80.00%
055900	Uranium-235/236	1455	0.748	pci/g	-	0.748	78.88%
055902	Uranium-235/236	1456	0.665	pci/g	-	0.665	77.77%
110571	Uranium-235/236	1977	0.58	pci/g	J	0.58	76.66%
110355	Uranium-235/236	1966	0.515	pci/g	-	0.515	75.55%
110396	Uranium-235/236	1968	0.474	pci/g	J	0.474	74.44%
110405	Uranium-235/236	1966	0.473	pci/g	J	0.473	73.33%
110290	Uranium-235/236	SF-SS-20	0.47	pci/g	J	0.47	72.22%
110307	Uranium-235/236	SF-SS-21	0.458	pci/g	J	0.458	71.11%
110389	Uranium-235/236	1975	0.44	pci/g	J	0.44	70.00%
110413	Uranium-235/236	11186	0.428	pci/g	J	0.428	68.88%
110385	Uranium-235/236	1975	0.35	pci/g	J	0.35	67.77%
110317	Uranium-235/236		0.346	pci/g	J	0.346	66.66%
110324	Uranium-235/236	1971	0.344	pci/g	-	0.344	65.55%
110372	Uranium-235/236	1970	0.315	pci/g	J	0.315	64.44%
110392	Uranium-235/236	1968	0.303	pci/g	J	0.303	63.33%
055926	Uranium-235/236	1461	0.6	pci/g	UJ	0.3	34.44%
055928	Uranium-235/236	1462	0.6	pci/g	UJ	0.3	34.44%
055939	Uranium-235/236	1464	0.6	pci/g	UJ	0.3	34.44%
055943	Uranium-235/236	1466	0.6	pci/g	UJ	0.3	34.44%
055952	Uranium-235/236	1467	0.6	pci/g	UJ	0.3	34.44%
055954	Uranium-235/236	1468	0.6	pci/g	UJ	0.3	34.44%
055956	Uranium-235/236	1469	0.6	pci/g	UJ	0.3	34.44%
055966	Uranium-235/236	1470	0.6	pci/g	U	0.3	34.44%
055968	Uranium-235/236	1471	0.6	pci/g	U	0.3	34.44%
055970	Uranium-235/236	1472	0.6	pci/g	U	0.3	34.44%
008014	Uranium-235/236	1046	0.6	pci/g	U	0.3	34.44%
112507	Uranium-235/236	11186	0.3	pci/g	J	0.3	34.44%
055905	Uranium-235/236	1457	0.6	pci/g	U	0.3	34.44%
055901	Uranium-235/236	1455	0.6	pci/g	U	0.3	34.44%
055931	Uranium-235/236	1463	0.6	pci/g	UJ	0.3	34.44%
055927	Uranium-235/236	1461	0.6	pci/g	UJ	0.3	34.44%
055929	Uranium-235/236	1462	0.6	pci/g	UJ	0.3	34.44%
055940	Uranium-235/236	1464	0.6	pci/g	UJ	0.3	34.44%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055942	Uranium-235/236	1465	0.6	pci/g	UJ	0.3	34.44%
055944	Uranium-235/236	1466	0.6	pci/g	UJ	0.3	34.44%
055953	Uranium-235/236	1467	0.6	pci/g	UJ	0.3	34.44%
055955	Uranium-235/236	1468	0.6	pci/g	UJ	0.3	34.44%
055957	Uranium-235/236	1469	0.6	pci/g	UJ	0.3	34.44%
055967	Uranium-235/236	1470	0.6	pci/g	U	0.3	34.44%
055971	Uranium-235/236	1472	0.6	pci/g	U	0.3	34.44%
055969	Uranium-235/236	1471	0.6	pci/g	U	0.3	34.44%
110378	Uranium-235/236	1972	0.299	pci/g	J	0.299	33.33%
110382	Uranium-235/236	1972	0.287	pci/g	-	0.287	32.22%
110343	Uranium-235/236	SF-SS-16	0.285	pci/g	J	0.285	31.11%
110327	Uranium-235/236	1971	0.261	pci/g	J	0.261	30.00%
112494	Uranium-235/236	1972	0.26	pci/g	J	0.26	28.88%
110297	Uranium-235/236	SF-SS-17	0.258	pci/g	J	0.258	27.77%
110339	Uranium-235/236	1969	0.241	pci/g	-	0.241	26.66%
110340	Uranium-235/236	11188	0.226	pci/g	J	0.226	25.55%
110335	Uranium-235/236	1978	0.21	pci/g	J	0.21	24.44%
110358	Uranium-235/236	1967	0.198	pci/g	J	0.198	23.33%
110338	Uranium-235/236	1969	0.197	pci/g	J	0.197	22.22%
110304	Uranium-235/236	1977	0.17	pci/g	J	0.17	21.11%
110406	Uranium-235/236	1978	0.169	pci/g	J	0.169	20.00%
110365	Uranium-235/236	SF-SS-19	0.166	pci/g	J	0.166	18.88%
112696	Uranium-235/236	1967	0.16	pci/g	J	0.16	17.77%
110331	Uranium-235/236	1964	0.157	pci/g	J	0.157	16.66%
110369	Uranium-235/236	SF-SS-19	0.15	pci/g	J	0.15	15.55%
110287	Uranium-235/236	SF-SS-18	0.149	pci/g	J	0.149	14.44%
110547	Uranium-235/236	11188	0.146	pci/g	J	0.146	13.33%
112690	Uranium-235/236	1970	0.13	pci/g	J	0.13	12.22%
112737	Uranium-235/236	1965	0.0996	pci/g	J	0.0996	11.11%
112559	Uranium-235/236	1969	0.0766	pci/g	J	0.0766	10.00%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112835	Uranium-235/236	1968	0.0753	pci/g	J	0.0753	8.88%
112545	Uranium-235/236	1975	0.0747	pci/g	J	0.0747	7.77%
112648	Uranium-235/236	1964	0.07	pci/g	J	0.07	5.55%
110579	Uranium-235/236	1977	0.07	pci/g	J	0.07	5.55%
112731	Uranium-235/236	1967	0.0628	pci/g	J	0.0628	4.44%
112536	Uranium-235/236	1971	0.0565	pci/g	J	0.0565	3.33%
110362	Uranium-235/236	1967	0.052	pci/g	J	0.052	2.22%
112859	Uranium-235/236	1966	0.043	pci/g	J	0.043	1.11%
112893	Uranium-235/236	1970	0.03	pci/g	J	0.03	0.00%

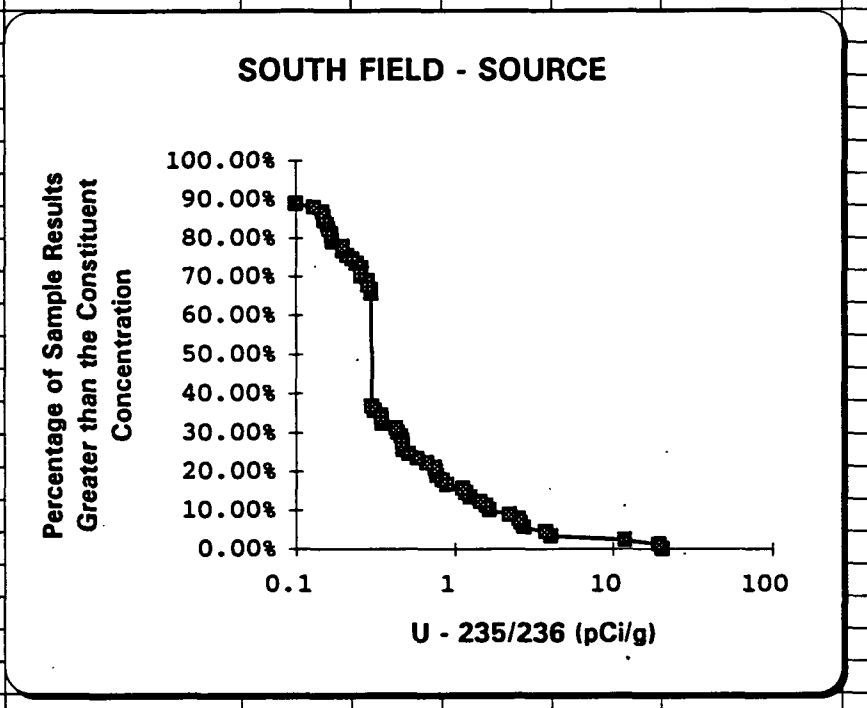

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
113722	Uranium-238		397	pci/g	N	397	100.00%
113724	Uranium-238		241	pci/g	-	241	98.88%
055917	Uranium-238	1460	131	pci/g	-	131	97.77%
055915	Uranium-238	1459	82.7	pci/g	-	82.7	96.66%
055918	Uranium-238	1460	78.8	pci/g	-	78.8	95.55%
055930	Uranium-238	1463	61.4	pci/g	-	61.4	94.44%
055916	Uranium-238	1459	60.8	pci/g	-	60.8	93.33%
113105	Uranium-238		46.8	pci/g	-	46.8	92.22%
047019	Uranium-238	1433	41.3	pci/g	J	41.3	91.11%
110415	Uranium-238	11187	29.3	pci/g	-	29.3	90.00%
055904	Uranium-238	1457	28.1	pci/g	-	28.1	88.88%
055913	Uranium-238	1458	23.7	pci/g	-	23.7	87.77%
055914	Uranium-238	1458	23.6	pci/g	-	23.6	86.66%
055903	Uranium-238	1456	22.6	pci/g	-	22.6	85.55%
113725	Uranium-238		18	pci/g	-	18	84.44%
110351	Uranium-238	1965	16.6	pci/g	-	16.6	83.33%
110584	Uranium-238	1972	15.7	pci/g	-	15.7	82.22%
110321	Uranium-238		15.1	pci/g	-	15.1	81.11%
055900	Uranium-238	1455	14.6	pci/g	-	14.6	80.00%
110290	Uranium-238	SF-SS-20	11.68	pci/g	J	11.68	78.88%
110355	Uranium-238	1966	11.3	pci/g	-	11.3	77.77%
110405	Uranium-238	1966	10.6	pci/g	-	10.6	75.55%
055902	Uranium-238	1456	10.6	pci/g	-	10.6	75.55%
110571	Uranium-238	1977	10.4	pci/g	-	10.4	74.44%
110389	Uranium-238	1975	10.2	pci/g	-	10.2	73.33%
110392	Uranium-238	1968	9.84	pci/g	-	9.84	72.22%
110396	Uranium-238	1968	9.41	pci/g	-	9.41	71.11%
110307	Uranium-238	SF-SS-21	9.32	pci/g	J	9.32	68.88%
110413	Uranium-238	11186	9.32	pci/g	-	9.32	68.88%
110317	Uranium-238		9.06	pci/g	-	9.06	67.77%
110382	Uranium-238	1972	8.09	pci/g	-	8.09	66.66%
110372	Uranium-238	1970	7.72	pci/g	-	7.72	65.55%
110385	Uranium-238	1975	6.92	pci/g	-	6.92	64.44%
110378	Uranium-238	1972	6.88	pci/g	-	6.88	63.33%
112507	Uranium-238	11186	6.61	pci/g	-	6.61	62.22%
110343	Uranium-238	SF-SS-16	6.53	pci/g	-	6.53	61.11%
110324	Uranium-238	1971	6.48	pci/g	-	6.48	60.00%
055928	Uranium-238	1462	6.21	pci/g	-	6.21	58.88%
110297	Uranium-238	SF-SS-17	5.99	pci/g	J	5.99	57.77%
055926	Uranium-238	1461	5.58	pci/g	-	5.58	56.66%
110365	Uranium-238	SF-SS-19	5.46	pci/g	-	5.46	55.55%
055944	Uranium-238	1466	5.36	pci/g	-	5.36	54.44%
110335	Uranium-238	1978	5.35	pci/g	-	5.35	53.33%
112494	Uranium-238	1972	5	pci/g	-	5	52.22%
110327	Uranium-238	1971	4.84	pci/g	-	4.84	51.11%
055929	Uranium-238	1462	4.7	pci/g	-	4.7	50.00%
110358	Uranium-238	1967	4.41	pci/g	-	4.41	47.77%
055905	Uranium-238	1457	4.41	pci/g	-	4.41	47.77%
110304	Uranium-238	1977	4.15	pci/g	-	4.15	46.66%
055952	Uranium-238	1467	4.14	pci/g	J	4.14	45.55%
055966	Uranium-238	1470	4.04	pci/g	-	4.04	44.44%
110369	Uranium-238	SF-SS-19	3.99	pci/g	-	3.99	43.33%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110338	Uranium-238	1969	3.79	pci/g	-	3.79	41.11%
112690	Uranium-238	1970	3.79	pci/g	-	3.79	41.11%
110339	Uranium-238	1969	3.7	pci/g	-	3.7	40.00%
055970	Uranium-238	1472	3.64	pci/g	-	3.64	38.88%
055954	Uranium-238	1468	3.56	pci/g	J	3.56	37.77%
110340	Uranium-238	11188	3.54	pci/g	-	3.54	36.66%
055942	Uranium-238	1465	3.5	pci/g	-	3.5	35.55%
110331	Uranium-238	1964	3.47	pci/g	-	3.47	34.44%
110406	Uranium-238	1978	3.46	pci/g	-	3.46	33.33%
055956	Uranium-238	1469	3.18	pci/g	J	3.18	32.22%
055901	Uranium-238	1455	3.1	pci/g	-	3.1	31.11%
112737	Uranium-238	1965	3.04	pci/g	-	3.04	30.00%
112648	Uranium-238	1964	2.91	pci/g	-	2.91	28.88%
110287	Uranium-238	SF-SS-18	2.87	pci/g	J	2.87	27.77%
112545	Uranium-238	1975	2.74	pci/g	-	2.74	26.66%
112696	Uranium-238	1967	2.56	pci/g	-	2.56	25.55%
110362	Uranium-238	1967	2.36	pci/g	-	2.36	24.44%
055968	Uranium-238	1471	2.12	pci/g	-	2.12	23.33%
008014	Uranium-238	1046	2.1	pci/g	-	2.1	22.22%
055971	Uranium-238	1472	2.06	pci/g	-	2.06	21.11%
112859	Uranium-238	1966	1.9	pci/g	-	1.9	20.00%
110547	Uranium-238	11188	1.86	pci/g	-	1.86	18.88%
112559	Uranium-238	1969	1.76	pci/g	-	1.76	16.66%
055940	Uranium-238	1464	1.76	pci/g	-	1.76	16.66%
112835	Uranium-238	1968	1.71	pci/g	-	1.71	15.55%
055967	Uranium-238	1470	1.61	pci/g	-	1.61	14.44%
055931	Uranium-238	1463	1.46	pci/g	-	1.46	13.33%
055927	Uranium-238	1461	1.42	pci/g	-	1.42	12.22%
055957	Uranium-238	1469	1.38	pci/g	J	1.38	11.11%
055939	Uranium-238	1464	1.37	pci/g	-	1.37	10.00%
055969	Uranium-238	1471	1.35	pci/g	-	1.35	8.88%
112536	Uranium-238	1971	1.34	pci/g	-	1.34	7.77%
055953	Uranium-238	1467	1.32	pci/g	J	1.32	5.55%
055955	Uranium-238	1468	1.32	pci/g	J	1.32	5.55%
055943	Uranium-238	1466	1.26	pci/g	-	1.26	4.44%
055941	Uranium-238	1465	1.09	pci/g	-	1.09	3.33%
112893	Uranium-238	1970	1.03	pci/g	-	1.03	2.22%

TABLE A.5-14
SOUTH FIELD - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110579	Uranium-238	1977	0.98	pci/g	-	0.98	1.11%
112731	Uranium-238	1967	0.859	pci/g	-	0.859	0.00%

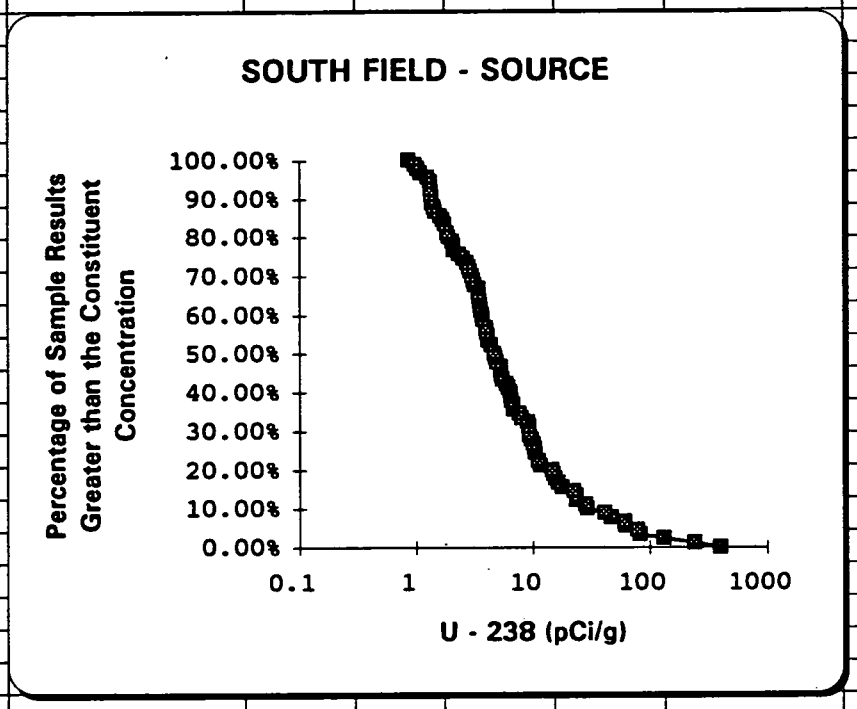

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067333	Aroclor-1254	1793	740	ug/kg	-	740	100.00%
055959	Aroclor-1254	1468	710	ug/kg	J	710	98.33%
055932	Aroclor-1254	1462	690	ug/kg	J	690	96.66%
113722	Aroclor-1254		430	ug/kg	J	430	95.00%
113718	Aroclor-1254		170	ug/kg	J	170	93.33%
110389	Aroclor-1254	1975	140	ug/kg	-	140	91.66%
055906	Aroclor-1254	1456	130	ug/kg	J	130	90.00%
067324	Aroclor-1254	1794	210	ug/kg	U	105	88.33%
067350	Aroclor-1254	1792	100	ug/kg	J	100	85.00%
067356	Aroclor-1254	1792	200	ug/kg	U	100	85.00%
067328	Aroclor-1254	1794	190	ug/kg	U	95	76.66%
067353	Aroclor-1254	1792	190	ug/kg	U	95	76.66%
067367	Aroclor-1254	1795	190	ug/kg	U	95	76.66%
067370	Aroclor-1254	1795	190	ug/kg	U	95	76.66%
055945	Aroclor-1254	1465	190	ug/kg	UJ	95	76.66%
067343	Aroclor-1254	1792	180	ug/kg	U	90	73.33%
055972	Aroclor-1254	1471	180	ug/kg	U	90	73.33%
110304	Aroclor-1254	1977	89	ug/kg	-	89	71.66%
112520	Aroclor-1254	11187	86	ug/kg	J	86	70.00%
110382	Aroclor-1254	1972	85	ug/kg	-	85	66.66%
112696	Aroclor-1254	1967	85	ug/kg	-	85	66.66%
110413	Aroclor-1254	11186	82	ug/kg	-	82	65.00%
110415	Aroclor-1254	11187	58	ug/kg	J	58	63.33%
110339	Aroclor-1254	1969	54	ug/kg	-	54	61.66%
110406	Aroclor-1254	1978	47	ug/kg	-	47	60.00%
112737	Aroclor-1254	1965	43	ug/kg	-	43	58.33%
067346	Aroclor-1254	1792	32	ug/kg	J	32	56.66%
110338	Aroclor-1254	1969	50	ug/kg	U	25	55.00%
110351	Aroclor-1254	1965	48	ug/kg	U	24	53.33%
110355	Aroclor-1254	1966	46	ug/kg	U	23	51.66%
110307	Aroclor-1254	SF-SS-21	45	ug/kg	U	22.5	48.33%
110372	Aroclor-1254	1970	45	ug/kg	U	22.5	48.33%
110335	Aroclor-1254	1978	44	ug/kg	U	22	46.66%
110317	Aroclor-1254		43	ug/kg	U	21.5	33.33%
110340	Aroclor-1254	11188	43	ug/kg	U	21.5	33.33%
110331	Aroclor-1254	1964	43	ug/kg	U	21.5	33.33%
110358	Aroclor-1254	1967	43	ug/kg	U	21.5	33.33%
110392	Aroclor-1254	1968	43	ug/kg	U	21.5	33.33%
110343	Aroclor-1254	SF-SS-16	43	ug/kg	U	21.5	33.33%
110405	Aroclor-1254	1966	43	ug/kg	U	21.5	33.33%
112893	Aroclor-1254	1970	43	ug/kg	U	21.5	33.33%
110297	Aroclor-1254	SF-SS-17	42	ug/kg	U	21	25.00%
110290	Aroclor-1254	SF-SS-20	42	ug/kg	U	21	25.00%
110369	Aroclor-1254	SF-SS-19	42	ug/kg	U	21	25.00%
112536	Aroclor-1254	1971	42	ug/kg	U	21	25.00%
112859	Aroclor-1254	1966	42	ug/kg	U	21	25.00%
110378	Aroclor-1254	1972	41	ug/kg	U	20.5	8.33%
110321	Aroclor-1254		41	ug/kg	U	20.5	8.33%
110324	Aroclor-1254	1971	41	ug/kg	U	20.5	8.33%
110385	Aroclor-1254	1975	41	ug/kg	U	20.5	8.33%
110365	Aroclor-1254	SF-SS-19	41	ug/kg	U	20.5	8.33%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110362	Aroclor-1254	1967	41	ug/kg	U	20.5	8.33%
110327	Aroclor-1254	1971	41	ug/kg	U	20.5	8.33%
110571	Aroclor-1254	1977	41	ug/kg	U	20.5	8.33%
112648	Aroclor-1254	1964	41	ug/kg	U	20.5	8.33%
112690	Aroclor-1254	1970	41	ug/kg	U	20.5	8.33%
110396	Aroclor-1254	1968	40	ug/kg	U	20	5.00%
110584	Aroclor-1254	1972	40	ug/kg	U	20	5.00%
110287	Aroclor-1254	SF-SS-18	39	ug/kg	U	19.5	0.00%
110547	Aroclor-1254	11188	39	ug/kg	U	19.5	0.00%
112835	Aroclor-1254	1968	39	ug/kg	U	19.5	0.00%

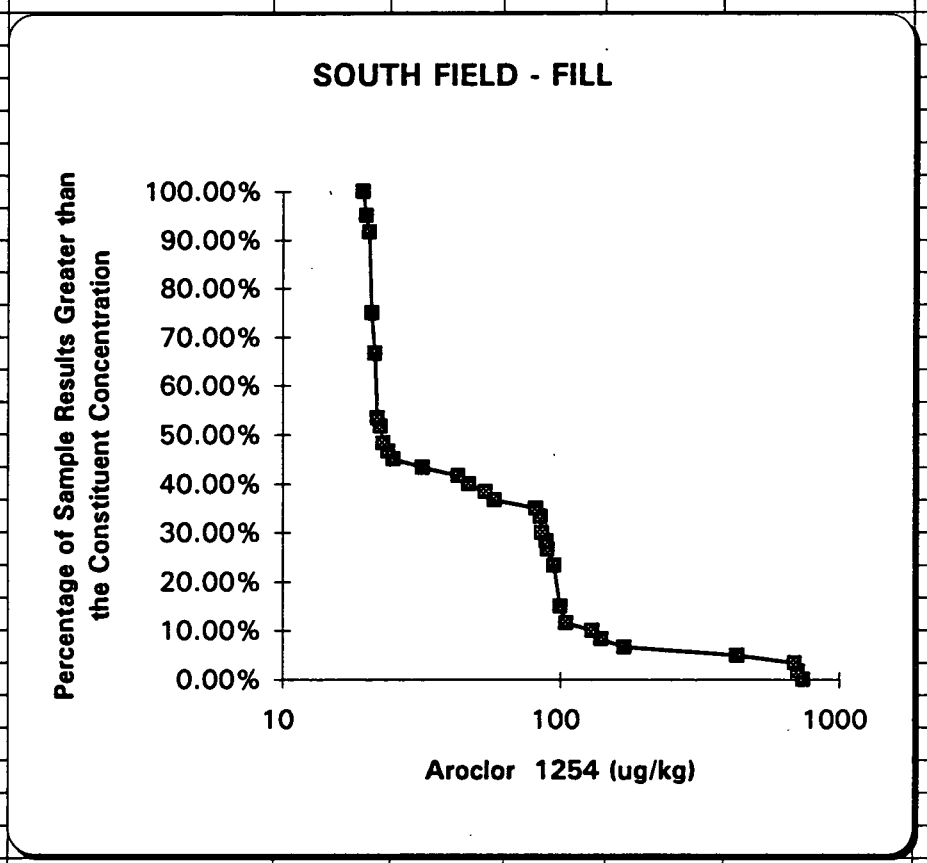

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055932	Aroclor-1260	1462	1800	ug/kg	U	900	98.33%
055959	Aroclor-1260	1468	1800	ug/kg	U	900	98.33%
067324	Aroclor-1260	1794	210	ug/kg	U	105	96.66%
067356	Aroclor-1260	1792	200	ug/kg	U	100	95.00%
067328	Aroclor-1260	1794	190	ug/kg	U	95	83.33%
067333	Aroclor-1260	1793	190	ug/kg	U	95	83.33%
067350	Aroclor-1260	1792	190	ug/kg	U	95	83.33%
067353	Aroclor-1260	1792	190	ug/kg	U	95	83.33%
067367	Aroclor-1260	1795	190	ug/kg	U	95	83.33%
067370	Aroclor-1260	1795	190	ug/kg	U	95	83.33%
055945	Aroclor-1260	1465	190	ug/kg	UJ	95	83.33%
067343	Aroclor-1260	1792	180	ug/kg	U	90	78.33%
067346	Aroclor-1260	1792	180	ug/kg	U	90	78.33%
055972	Aroclor-1260	1471	180	ug/kg	U	90	78.33%
110369	Aroclor-1260	SF-SS-19	89	ug/kg	J	89	76.66%
055906	Aroclor-1260	1456	150	ug/kg	UJ	75	75.00%
110365	Aroclor-1260	SF-SS-19	52	ug/kg	-	52	73.33%
110287	Aroclor-1260	SF-SS-18	38	ug/kg	J	38	71.66%
110338	Aroclor-1260	1969	50	ug/kg	U	25	70.00%
110351	Aroclor-1260	1965	48	ug/kg	U	24	68.33%
110355	Aroclor-1260	1966	46	ug/kg	U	23	66.66%
110307	Aroclor-1260	SF-SS-21	45	ug/kg	U	22.5	61.66%
110372	Aroclor-1260	1970	45	ug/kg	U	22.5	61.66%
110339	Aroclor-1260	1969	45	ug/kg	U	22.5	61.66%
110335	Aroclor-1260	1978	44	ug/kg	U	22	60.00%
110317	Aroclor-1260		43	ug/kg	U	21.5	46.66%
110340	Aroclor-1260	11188	43	ug/kg	U	21.5	46.66%
110331	Aroclor-1260	1964	43	ug/kg	U	21.5	46.66%
110358	Aroclor-1260	1967	43	ug/kg	U	21.5	46.66%
110392	Aroclor-1260	1968	43	ug/kg	U	21.5	46.66%
110343	Aroclor-1260	SF-SS-16	43	ug/kg	U	21.5	46.66%
110405	Aroclor-1260	1966	43	ug/kg	U	21.5	46.66%
112893	Aroclor-1260	1970	43	ug/kg	U	21.5	46.66%
110297	Aroclor-1260	SF-SS-17	42	ug/kg	U	21	38.33%
110290	Aroclor-1260	SF-SS-20	42	ug/kg	U	21	38.33%
112536	Aroclor-1260	1971	42	ug/kg	U	21	38.33%
112859	Aroclor-1260	1966	42	ug/kg	U	21	38.33%
113722	Aroclor-1260		42	ug/kg	U	21	38.33%
110378	Aroclor-1260	1972	41	ug/kg	U	20.5	21.66%
110321	Aroclor-1260		41	ug/kg	U	20.5	21.66%
110324	Aroclor-1260	1971	41	ug/kg	U	20.5	21.66%
110385	Aroclor-1260	1975	41	ug/kg	U	20.5	21.66%
110362	Aroclor-1260	1967	41	ug/kg	U	20.5	21.66%
110327	Aroclor-1260	1971	41	ug/kg	U	20.5	21.66%
110389	Aroclor-1260	1975	41	ug/kg	U	20.5	21.66%
110571	Aroclor-1260	1977	41	ug/kg	U	20.5	21.66%
112648	Aroclor-1260	1964	41	ug/kg	U	20.5	21.66%
112690	Aroclor-1260	1970	41	ug/kg	U	20.5	21.66%
110304	Aroclor-1260	1977	40	ug/kg	U	20	8.33%
110382	Aroclor-1260	1972	40	ug/kg	U	20	8.33%
110396	Aroclor-1260	1968	40	ug/kg	U	20	8.33%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110415	Aroclor-1260	11187	40	ug/kg	U	20	8.33%
110406	Aroclor-1260	1978	40	ug/kg	U	20	8.33%
110584	Aroclor-1260	1972	40	ug/kg	U	20	8.33%
112520	Aroclor-1260	11187	40	ug/kg	U	20	8.33%
112696	Aroclor-1260	1967	40	ug/kg	U	20	8.33%
110413	Aroclor-1260	11186	39	ug/kg	U	19.5	3.33%
110547	Aroclor-1260	11188	39	ug/kg	U	19.5	3.33%
112835	Aroclor-1260	1968	39	ug/kg	U	19.5	3.33%
112737	Aroclor-1260	1965	37	ug/kg	U	18.5	0.00%
113718	Aroclor-1260		37	ug/kg	UJ	18.5	0.00%

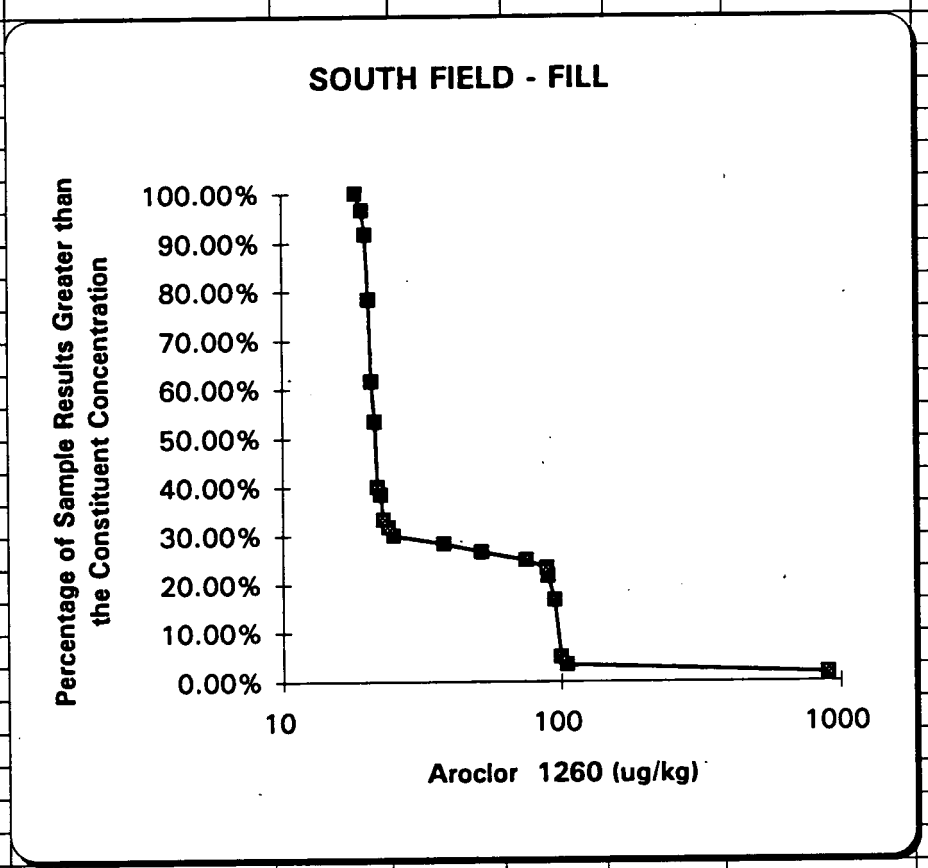

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110382	Arsenic	1972	14.1	mg/kg	-	14.1	100.00%
110584	Arsenic	1972	10.2	mg/kg	J	10.2	98.33%
110413	Arsenic	11186	9.8	mg/kg	-	9.8	96.66%
110307	Arsenic	SF-SS-21	9.3	mg/kg	-	9.3	95.00%
110338	Arsenic	1969	9.1	mg/kg	-	9.1	91.66%
110339	Arsenic	1969	9.1	mg/kg	-	9.1	91.66%
112536	Arsenic	1971	8.9	mg/kg	-	8.9	90.00%
110358	Arsenic	1967	8.4	mg/kg	-	8.4	88.33%
055906	Arsenic	1456	8.1	mg/kg	-	8.1	86.66%
110331	Arsenic	1964	7.9	mg/kg	-	7.9	85.00%
110317	Arsenic		7.8	mg/kg	-	7.8	83.33%
110372	Arsenic	1970	7.7	mg/kg	-	7.7	80.00%
113722	Arsenic		7.7	mg/kg	-	7.7	80.00%
110362	Arsenic	1967	7.6	mg/kg	-	7.6	75.00%
067343	Arsenic	1792	7.6	mg/kg	-	7.6	75.00%
110406	Arsenic	1978	7.6	mg/kg	J	7.6	75.00%
110340	Arsenic	11188	7.5	mg/kg	-	7.5	71.66%
112737	Arsenic	1965	7.5	mg/kg	-	7.5	71.66%
110355	Arsenic	1966	7.3	mg/kg	-	7.3	70.00%
110547	Arsenic	11188	7.2	mg/kg	-	7.2	68.33%
112690	Arsenic	1970	7.1	mg/kg	-	7.1	65.00%
112893	Arsenic	1970	7.1	mg/kg	-	7.1	65.00%
110378	Arsenic	1972	7	mg/kg	-	7	58.33%
110385	Arsenic	1975	7	mg/kg	-	7	58.33%
055972	Arsenic	1471	7	mg/kg	-	7	58.33%
110405	Arsenic	1966	7	mg/kg	J	7	58.33%
067370	Arsenic	1795	6.9	mg/kg	-	6.9	56.66%
110304	Arsenic	1977	6.8	mg/kg	-	6.8	53.33%
112696	Arsenic	1967	6.8	mg/kg	-	6.8	53.33%
113718	Arsenic		6.7	mg/kg	-	6.7	51.66%
110290	Arsenic	SF-SS-20	6.5	mg/kg	-	6.5	50.00%
055959	Arsenic	1468	6.3	mg/kg	-	6.3	48.33%
110335	Arsenic	1978	6.1	mg/kg	-	6.1	45.00%
067324	Arsenic	1794	6.1	mg/kg	-	6.1	45.00%
110343	Arsenic	SF-SS-16	5.9	mg/kg	-	5.9	41.66%
055932	Arsenic	1462	5.9	mg/kg	-	5.9	41.66%
055945	Arsenic	1465	5.8	mg/kg	-	5.8	40.00%
110415	Arsenic	11187	5.7	mg/kg	-	5.7	38.33%
110297	Arsenic	SF-SS-17	5.5	mg/kg	-	5.5	30.00%
110389	Arsenic	1975	5.5	mg/kg	-	5.5	30.00%
112520	Arsenic	11187	5.5	mg/kg	-	5.5	30.00%
110392	Arsenic	1968	5.5	mg/kg	J	5.5	30.00%
112648	Arsenic	1964	5.5	mg/kg	J	5.5	30.00%
112859	Arsenic	1966	5.3	mg/kg	-	5.3	28.33%
110324	Arsenic	1971	5.2	mg/kg	-	5.2	23.33%
110571	Arsenic	1977	5.2	mg/kg	-	5.2	23.33%
110287	Arsenic	SF-SS-18	5.2	mg/kg	J	5.2	23.33%
110321	Arsenic		4.9	mg/kg	-	4.9	18.33%
110351	Arsenic	1965	4.9	mg/kg	-	4.9	18.33%
110327	Arsenic	1971	4.9	mg/kg	-	4.9	18.33%
067356	Arsenic	1792	4.7	mg/kg	-	4.7	16.66%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110365	Arsenic	SF-SS-19	4.6	mg/kg	-	4.6	15.00%
067353	Arsenic	1792	4.5	mg/kg	-	4.5	13.33%
110369	Arsenic	SF-SS-19	4.4	mg/kg	-	4.4	11.66%
067328	Arsenic	1794	4.3	mg/kg	-	4.3	10.00%
067346	Arsenic	1792	4.2	mg/kg	-	4.2	8.33%
067367	Arsenic	1795	4	mg/kg	-	4	6.66%
067350	Arsenic	1792	3.9	mg/kg	-	3.9	5.00%
112835	Arsenic	1968	3.7	mg/kg	-	3.7	3.33%
067333	Arsenic	1793	2.9	mg/kg	-	2.9	1.66%
110396	Arsenic	1968	2.8	mg/kg	-	2.8	0.00%

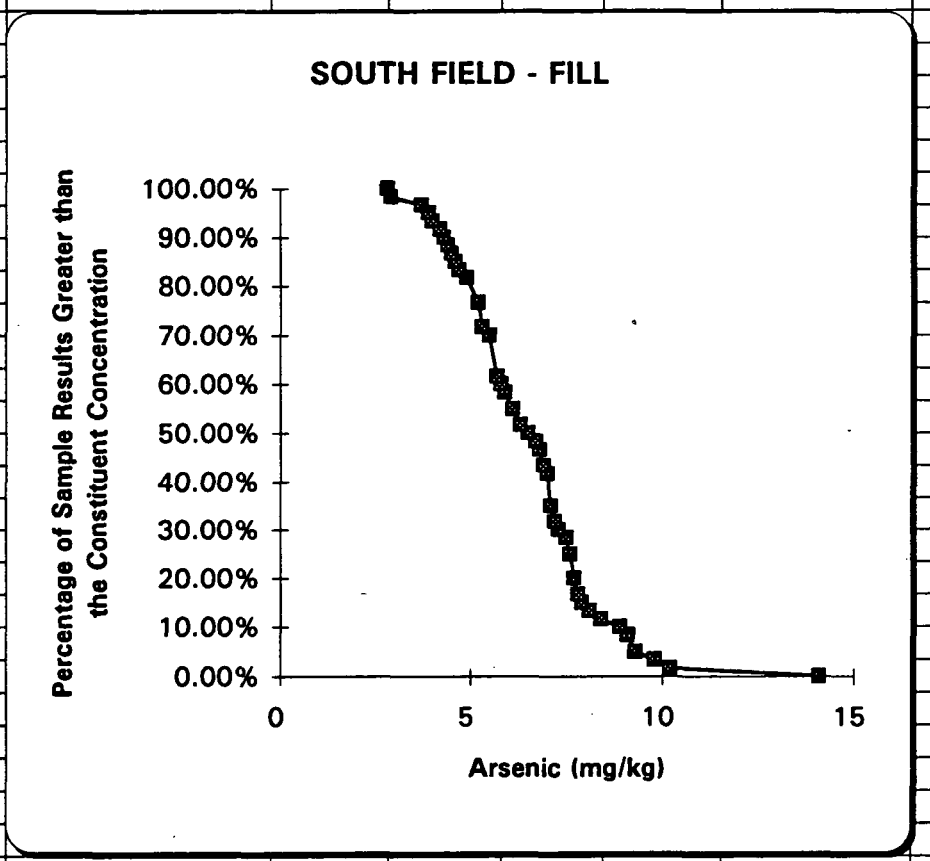

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110378	Benzo(a)anthracene	1972	5500	ug/kg	-	5500	100.00%
110297	Benzo(a)anthracene	SF-SS-17	2500	ug/kg	-	2500	98.14%
110382	Benzo(a)anthracene	1972	1100	ug/kg	-	1100	96.29%
110304	Benzo(a)anthracene	1977	630	ug/kg	-	630	94.44%
110287	Benzo(a)anthracene	SF-SS-18	530	ug/kg	-	530	92.59%
067367	Benzo(a)anthracene	1795	270	ug/kg	J	270	90.74%
110317	Benzo(a)anthracene		250	ug/kg	J	250	87.03%
110338	Benzo(a)anthracene	1969	500	ug/kg	U	250	87.03%
110351	Benzo(a)anthracene	1965	480	ug/kg	U	240	85.18%
110355	Benzo(a)anthracene	1966	460	ug/kg	U	230	83.33%
110307	Benzo(a)anthracene	SF-SS-21	450	ug/kg	U	225	81.48%
110335	Benzo(a)anthracene	1978	440	ug/kg	U	220	77.77%
110339	Benzo(a)anthracene	1969	440	ug/kg	U	220	77.77%
110331	Benzo(a)anthracene	1964	430	ug/kg	U	215	70.37%
110358	Benzo(a)anthracene	1967	430	ug/kg	U	215	70.37%
110405	Benzo(a)anthracene	1966	430	ug/kg	U	215	70.37%
112893	Benzo(a)anthracene	1970	430	ug/kg	U	215	70.37%
112536	Benzo(a)anthracene	1971	420	ug/kg	U	210	64.81%
112648	Benzo(a)anthracene	1964	420	ug/kg	U	210	64.81%
112859	Benzo(a)anthracene	1966	420	ug/kg	U	210	64.81%
110321	Benzo(a)anthracene		410	ug/kg	U	205	51.85%
110385	Benzo(a)anthracene	1975	410	ug/kg	U	205	51.85%
110362	Benzo(a)anthracene	1967	410	ug/kg	U	205	51.85%
110327	Benzo(a)anthracene	1971	410	ug/kg	U	205	51.85%
110389	Benzo(a)anthracene	1975	410	ug/kg	U	205	51.85%
110571	Benzo(a)anthracene	1977	410	ug/kg	U	205	51.85%
112520	Benzo(a)anthracene	11187	410	ug/kg	U	205	51.85%
110415	Benzo(a)anthracene	11187	400	ug/kg	U	200	42.59%
110406	Benzo(a)anthracene	1978	400	ug/kg	U	200	42.59%
112690	Benzo(a)anthracene	1970	400	ug/kg	U	200	42.59%
112835	Benzo(a)anthracene	1968	400	ug/kg	U	200	42.59%
055945	Benzo(a)anthracene	1465	400	ug/kg	U	200	42.59%
110584	Benzo(a)anthracene	1972	390	ug/kg	U	195	37.03%
112696	Benzo(a)anthracene	1967	390	ug/kg	U	195	37.03%
110547	Benzo(a)anthracene	11188	390	ug/kg	UJ	195	37.03%
067370	Benzo(a)anthracene	1795	380	ug/kg	U	190	31.48%
055959	Benzo(a)anthracene	1468	380	ug/kg	U	190	31.48%
055972	Benzo(a)anthracene	1471	380	ug/kg	U	190	31.48%
112737	Benzo(a)anthracene	1965	370	ug/kg	U	185	27.77%
055906	Benzo(a)anthracene	1456	370	ug/kg	U	185	27.77%
110340	Benzo(a)anthracene	11188	180	ug/kg	J	180	24.07%
067333	Benzo(a)anthracene	1793	360	ug/kg	U	180	24.07%
110343	Benzo(a)anthracene	SF-SS-16	160	ug/kg	J	160	22.22%
055932	Benzo(a)anthracene	1462	130	ug/kg	J	130	20.37%
067324	Benzo(a)anthracene	1794	100	ug/kg	J	100	18.51%
110369	Benzo(a)anthracene	SF-SS-19	97	ug/kg	J	97	16.66%
067328	Benzo(a)anthracene	1794	78	ug/kg	J	78	14.81%
113718	Benzo(a)anthracene		60	ug/kg	J	60	12.96%
110372	Benzo(a)anthracene	1970	58	ug/kg	J	58	11.11%
110413	Benzo(a)anthracene	11186	57	ug/kg	J	57	9.25%
110365	Benzo(a)anthracene	SF-SS-19	54	ug/kg	J	54	7.40%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110392	Benzo(a)anthracene	1968	51	ug/kg	J	51	5.55%
110290	Benzo(a)anthracene	SF-SS-20	46	ug/kg	J	46	3.70%
110324	Benzo(a)anthracene	1971	44	ug/kg	J	44	0.00%
110396	Benzo(a)anthracene	1968	44	ug/kg	J	44	0.00%

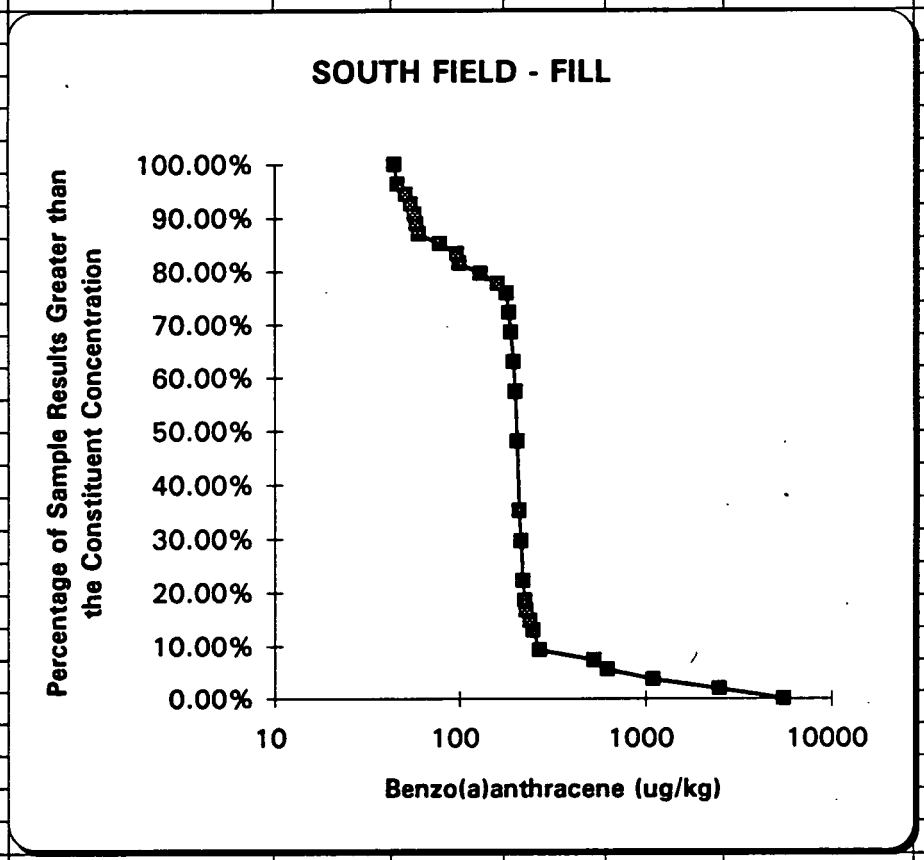

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110378	Benzo(a)pyrene	1972	9400	ug/kg	-	9400	100.00%
110297	Benzo(a)pyrene	SF-SS-17	4700	ug/kg	-	4700	98.11%
110382	Benzo(a)pyrene	1972	1800	ug/kg	-	1800	96.22%
110304	Benzo(a)pyrene	1977	800	ug/kg	-	800	94.33%
110287	Benzo(a)pyrene	SF-SS-18	750	ug/kg	-	750	92.45%
110340	Benzo(a)pyrene	11188	280	ug/kg	J	280	90.56%
110317	Benzo(a)pyrene		270	ug/kg	J	270	88.67%
110338	Benzo(a)pyrene	1969	500	ug/kg	U	250	86.79%
110351	Benzo(a)pyrene	1965	480	ug/kg	U	240	84.90%
110355	Benzo(a)pyrene	1966	460	ug/kg	U	230	83.01%
110307	Benzo(a)pyrene	SF-SS-21	450	ug/kg	U	225	81.13%
110335	Benzo(a)pyrene	1978	440	ug/kg	U	220	77.35%
110339	Benzo(a)pyrene	1969	440	ug/kg	U	220	77.35%
110331	Benzo(a)pyrene	1964	430	ug/kg	U	215	71.69%
110358	Benzo(a)pyrene	1967	430	ug/kg	U	215	71.69%
112893	Benzo(a)pyrene	1970	430	ug/kg	U	215	71.69%
110324	Benzo(a)pyrene	1971	420	ug/kg	U	210	64.15%
112536	Benzo(a)pyrene	1971	420	ug/kg	U	210	64.15%
112648	Benzo(a)pyrene	1964	420	ug/kg	U	210	64.15%
112859	Benzo(a)pyrene	1966	420	ug/kg	U	210	64.15%
110385	Benzo(a)pyrene	1975	410	ug/kg	U	205	52.83%
110362	Benzo(a)pyrene	1967	410	ug/kg	U	205	52.83%
110327	Benzo(a)pyrene	1971	410	ug/kg	U	205	52.83%
110389	Benzo(a)pyrene	1975	410	ug/kg	U	205	52.83%
110571	Benzo(a)pyrene	1977	410	ug/kg	U	205	52.83%
112520	Benzo(a)pyrene	11187	410	ug/kg	U	205	52.83%
110396	Benzo(a)pyrene	1968	400	ug/kg	U	200	45.28%
112690	Benzo(a)pyrene	1970	400	ug/kg	U	200	45.28%
112835	Benzo(a)pyrene	1968	400	ug/kg	U	200	45.28%
055945	Benzo(a)pyrene	1465	400	ug/kg	U	200	45.28%
110584	Benzo(a)pyrene	1972	390	ug/kg	U	195	37.73%
112696	Benzo(a)pyrene	1967	390	ug/kg	U	195	37.73%
067328	Benzo(a)pyrene	1794	390	ug/kg	U	195	37.73%
110547	Benzo(a)pyrene	11188	390	ug/kg	UJ	195	37.73%
067370	Benzo(a)pyrene	1795	380	ug/kg	U	190	30.18%
055932	Benzo(a)pyrene	1462	380	ug/kg	U	190	30.18%
055959	Benzo(a)pyrene	1468	380	ug/kg	U	190	30.18%
055972	Benzo(a)pyrene	1471	380	ug/kg	U	190	30.18%
112737	Benzo(a)pyrene	1965	370	ug/kg	U	185	26.41%
055906	Benzo(a)pyrene	1456	370	ug/kg	U	185	26.41%
067333	Benzo(a)pyrene	1793	360	ug/kg	U	180	24.52%
110343	Benzo(a)pyrene	SF-SS-16	170	ug/kg	J	170	22.64%
067367	Benzo(a)pyrene	1795	120	ug/kg	J	120	20.75%
110369	Benzo(a)pyrene	SF-SS-19	110	ug/kg	J	110	18.86%
110290	Benzo(a)pyrene	SF-SS-20	79	ug/kg	J	79	16.98%
110372	Benzo(a)pyrene	1970	67	ug/kg	J	67	15.09%
110365	Benzo(a)pyrene	SF-SS-19	59	ug/kg	J	59	11.32%
113718	Benzo(a)pyrene		59	ug/kg	J	59	11.32%
110392	Benzo(a)pyrene	1968	55	ug/kg	J	55	9.43%
110321	Benzo(a)pyrene		51	ug/kg	J	51	5.66%
110413	Benzo(a)pyrene	11186	51	ug/kg	J	51	5.66%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067324	Benzo(a)pyrene	1794	46	ug/kg	J	46	3.77%
110415	Benzo(a)pyrene	11187	41	ug/kg	J	41	1.88%
110406	Benzo(a)pyrene	1978	3	ug/kg	J	3	0.00%

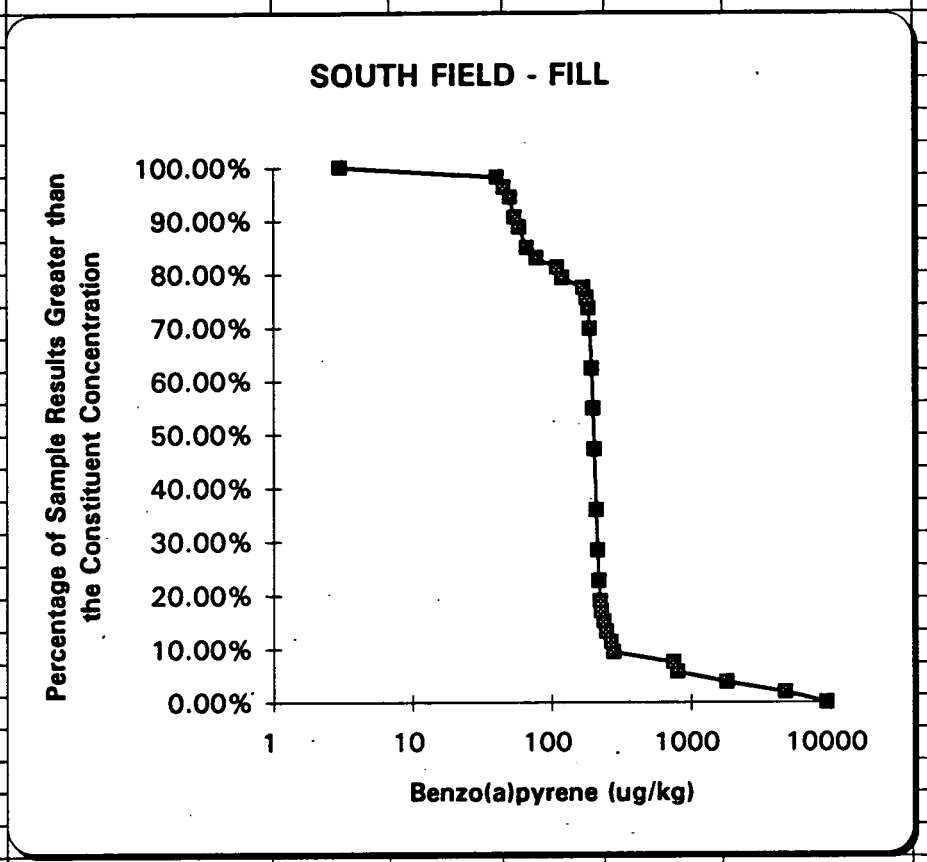

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110378	Benzo(b)fluoranthene	1972	6200	ug/kg	-	6200	100.00%
110297	Benzo(b)fluoranthene	SF-SS-17	3900	ug/kg	-	3900	98.11%
110382	Benzo(b)fluoranthene	1972	1600	ug/kg	-	1600	96.22%
110287	Benzo(b)fluoranthene	SF-SS-18	700	ug/kg	-	700	94.33%
110304	Benzo(b)fluoranthene	1977	670	ug/kg	-	670	92.45%
067367	Benzo(b)fluoranthene	1795	360	ug/kg	J	360	90.56%
110338	Benzo(b)fluoranthene	1969	500	ug/kg	U	250	88.67%
110317	Benzo(b)fluoranthene		240	ug/kg	J	240	83.01%
110340	Benzo(b)fluoranthene	11188	240	ug/kg	J	240	83.01%
110351	Benzo(b)fluoranthene	1965	480	ug/kg	U	240	83.01%
110355	Benzo(b)fluoranthene	1966	460	ug/kg	U	230	81.13%
110307	Benzo(b)fluoranthene	SF-SS-21	450	ug/kg	U	225	79.24%
110335	Benzo(b)fluoranthene	1978	440	ug/kg	U	220	75.47%
110339	Benzo(b)fluoranthene	1969	440	ug/kg	U	220	75.47%
110331	Benzo(b)fluoranthene	1964	430	ug/kg	U	215	69.81%
110358	Benzo(b)fluoranthene	1967	430	ug/kg	U	215	69.81%
112893	Benzo(b)fluoranthene	1970	430	ug/kg	U	215	69.81%
110324	Benzo(b)fluoranthene	1971	420	ug/kg	U	210	62.26%
112536	Benzo(b)fluoranthene	1971	420	ug/kg	U	210	62.26%
112648	Benzo(b)fluoranthene	1964	420	ug/kg	U	210	62.26%
112859	Benzo(b)fluoranthene	1966	420	ug/kg	U	210	62.26%
110385	Benzo(b)fluoranthene	1975	410	ug/kg	U	205	50.94%
110362	Benzo(b)fluoranthene	1967	410	ug/kg	U	205	50.94%
110327	Benzo(b)fluoranthene	1971	410	ug/kg	U	205	50.94%
110389	Benzo(b)fluoranthene	1975	410	ug/kg	U	205	50.94%
110571	Benzo(b)fluoranthene	1977	410	ug/kg	U	205	50.94%
112520	Benzo(b)fluoranthene	11187	410	ug/kg	U	205	50.94%
110415	Benzo(b)fluoranthene	11187	400	ug/kg	U	200	41.50%
110406	Benzo(b)fluoranthene	1978	400	ug/kg	U	200	41.50%
112690	Benzo(b)fluoranthene	1970	400	ug/kg	U	200	41.50%
112835	Benzo(b)fluoranthene	1968	400	ug/kg	U	200	41.50%
055945	Benzo(b)fluoranthene	1465	400	ug/kg	U	200	41.50%
110413	Benzo(b)fluoranthene	11186	390	ug/kg	U	195	33.96%
110584	Benzo(b)fluoranthene	1972	390	ug/kg	U	195	33.96%
112696	Benzo(b)fluoranthene	1967	390	ug/kg	U	195	33.96%
110547	Benzo(b)fluoranthene	11188	390	ug/kg	UJ	195	33.96%
067370	Benzo(b)fluoranthene	1795	380	ug/kg	U	190	28.30%
055959	Benzo(b)fluoranthene	1468	380	ug/kg	U	190	28.30%
055972	Benzo(b)fluoranthene	1471	380	ug/kg	U	190	28.30%
112737	Benzo(b)fluoranthene	1965	370	ug/kg	U	185	24.52%
055906	Benzo(b)fluoranthene	1456	370	ug/kg	U	185	24.52%
067333	Benzo(b)fluoranthene	1793	360	ug/kg	U	180	22.64%
110343	Benzo(b)fluoranthene	SF-SS-16	160	ug/kg	J	160	20.75%
067324	Benzo(b)fluoranthene	1794	140	ug/kg	J	140	16.98%
055932	Benzo(b)fluoranthene	1462	140	ug/kg	J	140	16.98%
110369	Benzo(b)fluoranthene	SF-SS-19	110	ug/kg	J	110	15.09%
067328	Benzo(b)fluoranthene	1794	88	ug/kg	J	88	13.20%
110372	Benzo(b)fluoranthene	1970	74	ug/kg	J	74	11.32%
110365	Benzo(b)fluoranthene	SF-SS-19	66	ug/kg	J	66	9.43%
110290	Benzo(b)fluoranthene	SF-SS-20	65	ug/kg	J	65	7.54%
110392	Benzo(b)fluoranthene	1968	62	ug/kg	J	62	5.66%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
113718	Benzo(b)fluoranthene		58	ug/kg	J	58	3.77%
110321	Benzo(b)fluoranthene		46	ug/kg	J	46	1.88%
110396	Benzo(b)fluoranthene	1968	42	ug/kg	J	42	0.00%

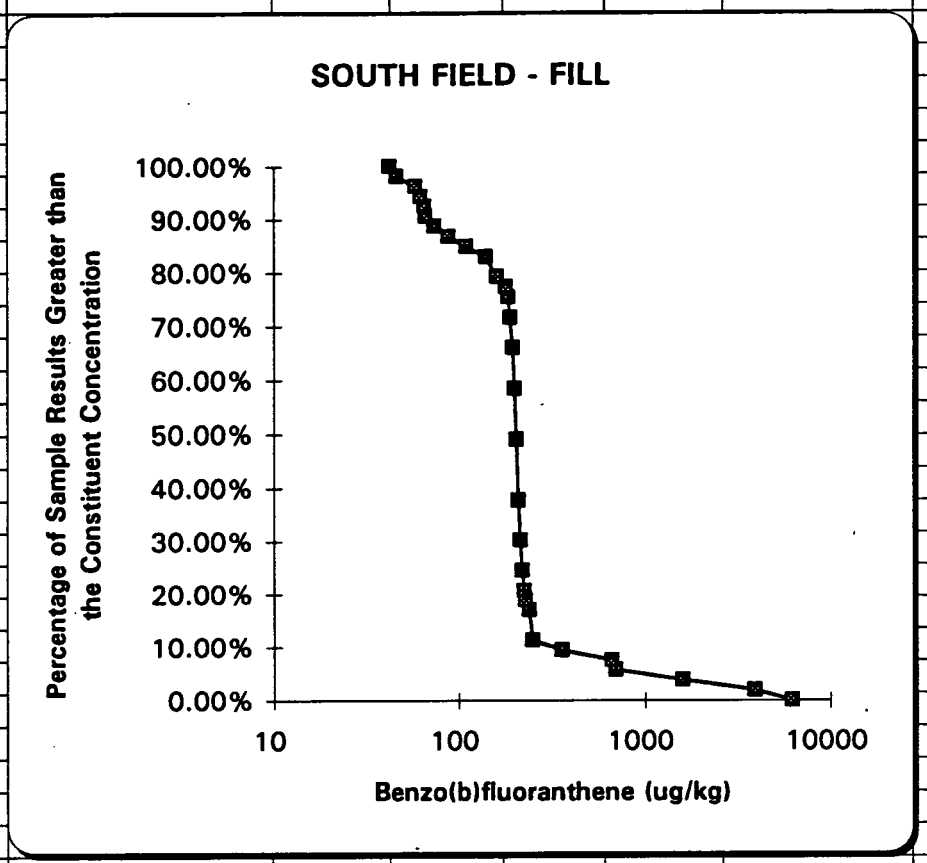

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110378	Benzo(k)fluoranthene	1972	7300	ug/kg	-	7300	100.00%
110297	Benzo(k)fluoranthene	SF-SS-17	3300	ug/kg	-	3300	98.11%
110382	Benzo(k)fluoranthene	1972	1600	ug/kg	-	1600	96.22%
110304	Benzo(k)fluoranthene	1977	710	ug/kg	-	710	94.33%
110287	Benzo(k)fluoranthene	SF-SS-18	670	ug/kg	-	670	92.45%
110340	Benzo(k)fluoranthene	11188	290	ug/kg	J	290	90.56%
110338	Benzo(k)fluoranthene	1969	500	ug/kg	U	250	88.67%
110317	Benzo(k)fluoranthene		240	ug/kg	J	240	84.90%
110351	Benzo(k)fluoranthene	1965	480	ug/kg	U	240	84.90%
110355	Benzo(k)fluoranthene	1966	460	ug/kg	U	230	83.01%
110307	Benzo(k)fluoranthene	SF-SS-21	450	ug/kg	U	225	81.13%
110335	Benzo(k)fluoranthene	1978	440	ug/kg	U	220	77.35%
110339	Benzo(k)fluoranthene	1969	440	ug/kg	U	220	77.35%
110331	Benzo(k)fluoranthene	1964	430	ug/kg	U	215	71.69%
110358	Benzo(k)fluoranthene	1967	430	ug/kg	U	215	71.69%
112893	Benzo(k)fluoranthene	1970	430	ug/kg	U	215	71.69%
112536	Benzo(k)fluoranthene	1971	420	ug/kg	U	210	66.03%
112648	Benzo(k)fluoranthene	1964	420	ug/kg	U	210	66.03%
112859	Benzo(k)fluoranthene	1966	420	ug/kg	U	210	66.03%
110385	Benzo(k)fluoranthene	1975	410	ug/kg	U	205	54.71%
110362	Benzo(k)fluoranthene	1967	410	ug/kg	U	205	54.71%
110327	Benzo(k)fluoranthene	1971	410	ug/kg	U	205	54.71%
110389	Benzo(k)fluoranthene	1975	410	ug/kg	U	205	54.71%
110571	Benzo(k)fluoranthene	1977	410	ug/kg	U	205	54.71%
112520	Benzo(k)fluoranthene	11187	410	ug/kg	U	205	54.71%
110396	Benzo(k)fluoranthene	1968	400	ug/kg	U	200	45.28%
110406	Benzo(k)fluoranthene	1978	400	ug/kg	U	200	45.28%
112690	Benzo(k)fluoranthene	1970	400	ug/kg	U	200	45.28%
112835	Benzo(k)fluoranthene	1968	400	ug/kg	U	200	45.28%
055945	Benzo(k)fluoranthene	1465	400	ug/kg	U	200	45.28%
110584	Benzo(k)fluoranthene	1972	390	ug/kg	U	195	35.84%
112696	Benzo(k)fluoranthene	1967	390	ug/kg	U	195	35.84%
067328	Benzo(k)fluoranthene	1794	390	ug/kg	U	195	35.84%
067367	Benzo(k)fluoranthene	1795	390	ug/kg	U	195	35.84%
110547	Benzo(k)fluoranthene	11188	390	ug/kg	UJ	195	35.84%
067324	Benzo(k)fluoranthene	1794	380	ug/kg	U	190	26.41%
067370	Benzo(k)fluoranthene	1795	380	ug/kg	U	190	26.41%
055932	Benzo(k)fluoranthene	1462	380	ug/kg	U	190	26.41%
055959	Benzo(k)fluoranthene	1468	380	ug/kg	U	190	26.41%
055972	Benzo(k)fluoranthene	1471	380	ug/kg	U	190	26.41%
112737	Benzo(k)fluoranthene	1965	370	ug/kg	U	185	22.64%
055906	Benzo(k)fluoranthene	1456	370	ug/kg	U	185	22.64%
110343	Benzo(k)fluoranthene	SF-SS-16	180	ug/kg	J	180	18.86%
067333	Benzo(k)fluoranthene	1793	360	ug/kg	U	180	18.86%
110369	Benzo(k)fluoranthene	SF-SS-19	110	ug/kg	J	110	16.98%
110365	Benzo(k)fluoranthene	SF-SS-19	71	ug/kg	J	71	15.09%
110372	Benzo(k)fluoranthene	1970	69	ug/kg	J	69	13.20%
113718	Benzo(k)fluoranthene		58	ug/kg	J	58	11.32%
110290	Benzo(k)fluoranthene	SF-SS-20	57	ug/kg	J	57	7.54%
110413	Benzo(k)fluoranthene	11186	57	ug/kg	J	57	7.54%
110392	Benzo(k)fluoranthene	1968	53	ug/kg	J	53	5.66%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110324	Benzo(k)fluoranthene	1971	52	ug/kg	J	52	3.77%
110321	Benzo(k)fluoranthene		49	ug/kg	J	49	1.88%
110415	Benzo(k)fluoranthene	11187	48	ug/kg	J	48	0.00%

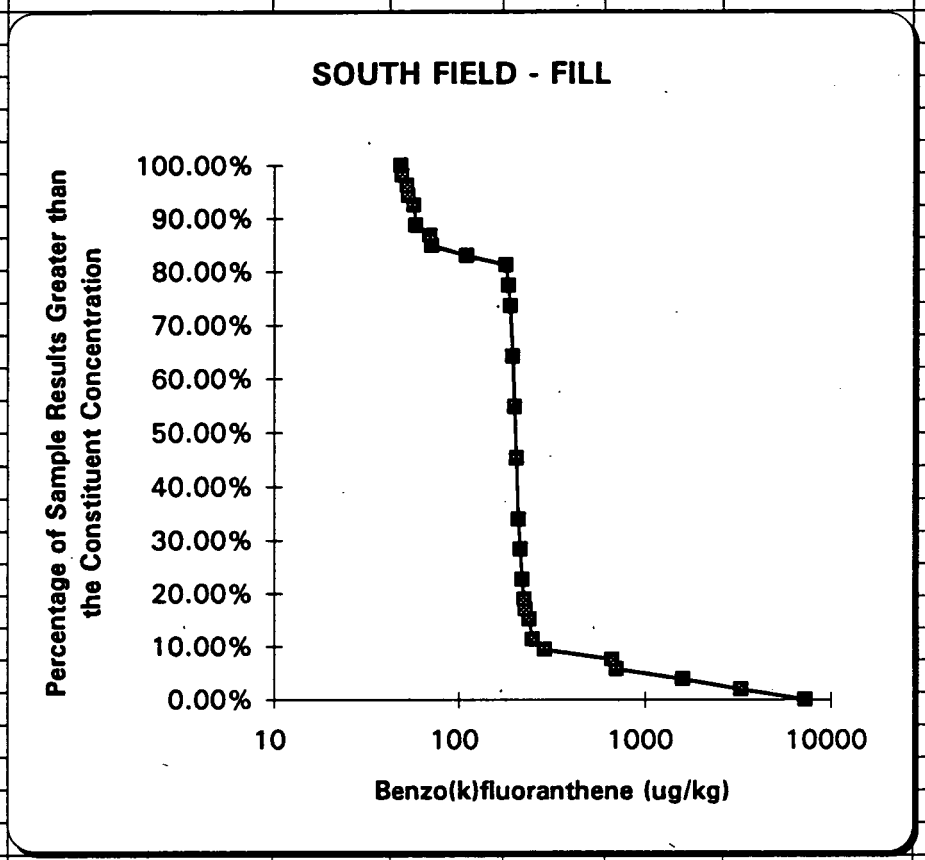

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110339	Beryllium	1969	2.2	mg/kg	-	2.2	100.00%
110297	Beryllium	SF-SS-17	1.9	mg/kg	-	1.9	98.33%
055959	Beryllium	1468	1.6	mg/kg	-	1.6	96.66%
110338	Beryllium	1969	1.5	mg/kg	-	1.5	93.33%
055906	Beryllium	1456	1.5	mg/kg	-	1.5	93.33%
055945	Beryllium	1465	1.3	mg/kg	-	1.3	91.66%
067324	Beryllium	1794	1.1	mg/kg	-	1.1	90.00%
110307	Beryllium	SF-SS-21	1	mg/kg	-	1	85.00%
112648	Beryllium	1964	1	mg/kg	-	1	85.00%
067343	Beryllium	1792	1	mg/kg	-	1	85.00%
067333	Beryllium	1793	0.99	mg/kg	-	0.99	83.33%
110351	Beryllium	1965	0.98	mg/kg	-	0.98	81.66%
067356	Beryllium	1792	0.97	mg/kg	-	0.97	80.00%
067353	Beryllium	1792	0.93	mg/kg	-	0.93	78.33%
112536	Beryllium	1971	0.92	mg/kg	-	0.92	76.66%
110355	Beryllium	1966	0.91	mg/kg	-	0.91	75.00%
110340	Beryllium	11188	0.87	mg/kg	-	0.87	70.00%
113722	Beryllium		0.87	mg/kg	-	0.87	70.00%
067328	Beryllium	1794	0.87	mg/kg	-	0.87	70.00%
110331	Beryllium	1964	0.86	mg/kg	-	0.86	66.66%
110335	Beryllium	1978	0.86	mg/kg	-	0.86	66.66%
067350	Beryllium	1792	0.85	mg/kg	-	0.85	65.00%
110343	Beryllium	SF-SS-16	0.84	mg/kg	-	0.84	63.33%
110317	Beryllium		0.83	mg/kg	-	0.83	61.66%
110413	Beryllium	11186	0.82	mg/kg	-	0.82	58.33%
067370	Beryllium	1795	0.82	mg/kg	-	0.82	58.33%
067346	Beryllium	1792	0.8	mg/kg	-	0.8	56.66%
110327	Beryllium	1971	0.78	mg/kg	-	0.78	55.00%
110571	Beryllium	1977	0.77	mg/kg	-	0.77	51.66%
067367	Beryllium	1795	0.77	mg/kg	-	0.77	51.66%
110324	Beryllium	1971	0.75	mg/kg	-	0.75	50.00%
112859	Beryllium	1966	0.74	mg/kg	-	0.74	48.33%
110358	Beryllium	1967	0.71	mg/kg	-	0.71	46.66%
110372	Beryllium	1970	0.68	mg/kg	-	0.68	45.00%
112893	Beryllium	1970	0.65	mg/kg	-	0.65	43.33%
110304	Beryllium	1977	0.63	mg/kg	-	0.63	41.66%
110385	Beryllium	1975	0.61	mg/kg	-	0.61	40.00%
110290	Beryllium	SF-SS-20	0.6	mg/kg	-	0.6	33.33%
110584	Beryllium	1972	0.6	mg/kg	-	0.6	33.33%
055932	Beryllium	1462	1.2	mg/kg	U	0.6	33.33%
055972	Beryllium	1471	1.2	mg/kg	U	0.6	33.33%
110321	Beryllium		0.59	mg/kg	-	0.59	28.33%
110362	Beryllium	1967	0.59	mg/kg	-	0.59	28.33%
110405	Beryllium	1966	0.59	mg/kg	-	0.59	28.33%
110396	Beryllium	1968	0.58	mg/kg	-	0.58	26.66%
110392	Beryllium	1968	0.57	mg/kg	-	0.57	23.33%
110415	Beryllium	11187	0.57	mg/kg	-	0.57	23.33%
110406	Beryllium	1978	0.56	mg/kg	-	0.56	20.00%
110547	Beryllium	11188	0.56	mg/kg	-	0.56	20.00%
110378	Beryllium	1972	0.52	mg/kg	-	0.52	18.33%
110389	Beryllium	1975	0.51	mg/kg	-	0.51	13.33%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110369	Beryllium	SF-SS-19	0.51	mg/kg	-	0.51	13.33%
112696	Beryllium	1967	0.51	mg/kg	-	0.51	13.33%
113718	Beryllium		0.99	mg/kg	U	0.495	11.66%
110365	Beryllium	SF-SS-19	0.49	mg/kg	-	0.49	10.00%
112520	Beryllium	11187	0.48	mg/kg	-	0.48	8.33%
110382	Beryllium	1972	0.46	mg/kg	-	0.46	5.00%
110287	Beryllium	SF-SS-18	0.92	mg/kg	U	0.46	5.00%
112690	Beryllium	1970	0.48	mg/kg	U	0.24	3.33%
112835	Beryllium	1968	0.47	mg/kg	U	0.235	1.66%
112737	Beryllium	1965	0.44	mg/kg	U	0.22	0.00%

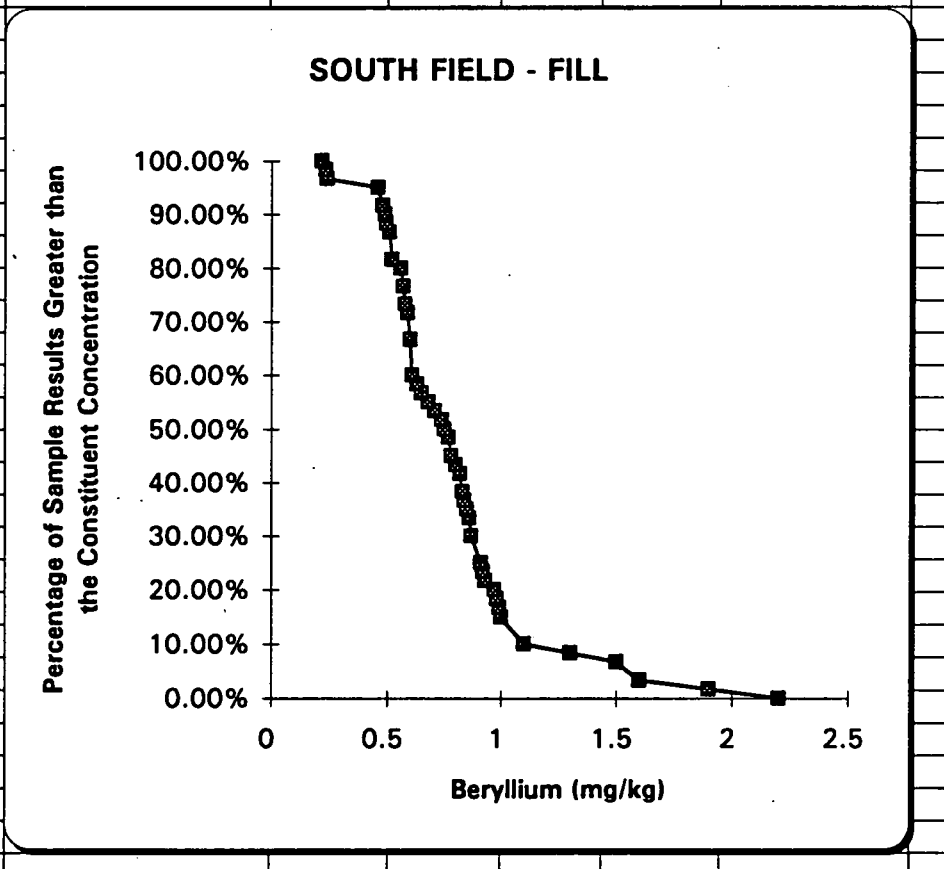

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110351	Cesium-137	1965	0.836	pci/g	-	0.836	100.00%
110335	Cesium-137	1978	0.799	pci/g	-	0.799	98.30%
110355	Cesium-137	1966	0.736	pci/g	-	0.736	96.61%
110331	Cesium-137	1964	0.692	pci/g	-	0.692	94.91%
110372	Cesium-137	1970	0.691	pci/g	-	0.691	93.22%
110317	Cesium-137		0.583	pci/g	-	0.583	91.52%
110307	Cesium-137	SF-SS-21	0.565	pci/g	-	0.565	89.83%
110382	Cesium-137	1972	0.547	pci/g	-	0.547	88.13%
110378	Cesium-137	1972	0.473	pci/g	-	0.473	86.44%
110392	Cesium-137	1968	0.465	pci/g	-	0.465	84.74%
110365	Cesium-137	SF-SS-19	0.415	pci/g	-	0.415	83.05%
110358	Cesium-137	1967	0.39	pci/g	-	0.39	81.35%
110343	Cesium-137	SF-SS-16	0.35	pci/g	-	0.35	79.66%
110369	Cesium-137	SF-SS-19	0.334	pci/g	-	0.334	77.96%
110413	Cesium-137	11186	0.651	pci/g	UJ	0.3255	76.27%
110290	Cesium-137	SF-SS-20	0.313	pci/g	-	0.313	74.57%
110396	Cesium-137	1968	0.311	pci/g	-	0.311	72.88%
110405	Cesium-137	1966	0.301	pci/g	-	0.301	71.18%
110297	Cesium-137	SF-SS-17	0.289	pci/g	-	0.289	69.49%
110338	Cesium-137	1969	0.254	pci/g	-	0.254	67.79%
110362	Cesium-137	1967	0.237	pci/g	-	0.237	66.10%
112690	Cesium-137	1970	0.23	pci/g	-	0.23	64.40%
110321	Cesium-137		0.196	pci/g	-	0.196	62.71%
110415	Cesium-137	11187	0.165	pci/g	-	0.165	61.01%
110304	Cesium-137	1977	0.116	pci/g	-	0.116	59.32%
110340	Cesium-137	11188	0.112	pci/g	-	0.112	57.62%
113105	Cesium-137		0.11	pci/g	J	0.11	55.93%
047019	Cesium-137	1433	0.2	pci/g	U	0.1	32.20%
055930	Cesium-137	1463	0.2	pci/g	U	0.1	32.20%
055952	Cesium-137	1467	0.2	pci/g	U	0.1	32.20%
055968	Cesium-137	1471	0.2	pci/g	U	0.1	32.20%
055970	Cesium-137	1472	0.2	pci/g	U	0.1	32.20%
055900	Cesium-137	1455	0.2	pci/g	UJ	0.1	32.20%
055902	Cesium-137	1456	0.2	pci/g	UJ	0.1	32.20%
055917	Cesium-137	1460	0.2	pci/g	UJ	0.1	32.20%
055913	Cesium-137	1458	0.2	pci/g	UJ	0.1	32.20%
055915	Cesium-137	1459	0.2	pci/g	UJ	0.1	32.20%
055926	Cesium-137	1461	0.2	pci/g	UJ	0.1	32.20%
055928	Cesium-137	1462	0.2	pci/g	UJ	0.1	32.20%
055954	Cesium-137	1468	0.2	pci/g	UJ	0.1	32.20%
055956	Cesium-137	1469	0.2	pci/g	UJ	0.1	32.20%
110385	Cesium-137	1975	0.089	pci/g	J	0.089	30.50%
113722	Cesium-137		0.16	pci/g	UJ	0.08	28.81%
112520	Cesium-137	11187	0.142	pci/g	UJ	0.071	27.11%
110571	Cesium-137	1977	0.07	pci/g	J	0.07	25.42%
110547	Cesium-137	11188	0.117	pci/g	UJ	0.0585	23.72%
110389	Cesium-137	1975	0.11	pci/g	UJ	0.055	22.03%
110324	Cesium-137	1971	0.109	pci/g	UJ	0.0545	20.33%
112835	Cesium-137	1968	0.108	pci/g	UJ	0.054	18.64%
110327	Cesium-137	1971	0.107	pci/g	UJ	0.0535	16.94%
112737	Cesium-137	1965	0.105	pci/g	UJ	0.0525	15.25%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112893	Cesium-137	1970	0.1	pci/g	UJ	0.05	13.55%
110406	Cesium-137	1978	0.098	pci/g	UJ	0.049	11.86%
112696	Cesium-137	1967	0.09	pci/g	UJ	0.045	10.16%
110584	Cesium-137	1972	0.088	pci/g	UJ	0.044	8.47%
110287	Cesium-137	SF-SS-18	0.0878	pci/g	UJ	0.0439	6.77%
112536	Cesium-137	1971	0.0801	pci/g	UJ	0.04005	5.08%
112648	Cesium-137	1964	0.08	pci/g	UJ	0.04	3.38%
112859	Cesium-137	1966	0.078	pci/g	UJ	0.039	1.69%
110339	Cesium-137	1969	0.073	pci/g	UJ	0.0365	0.00%

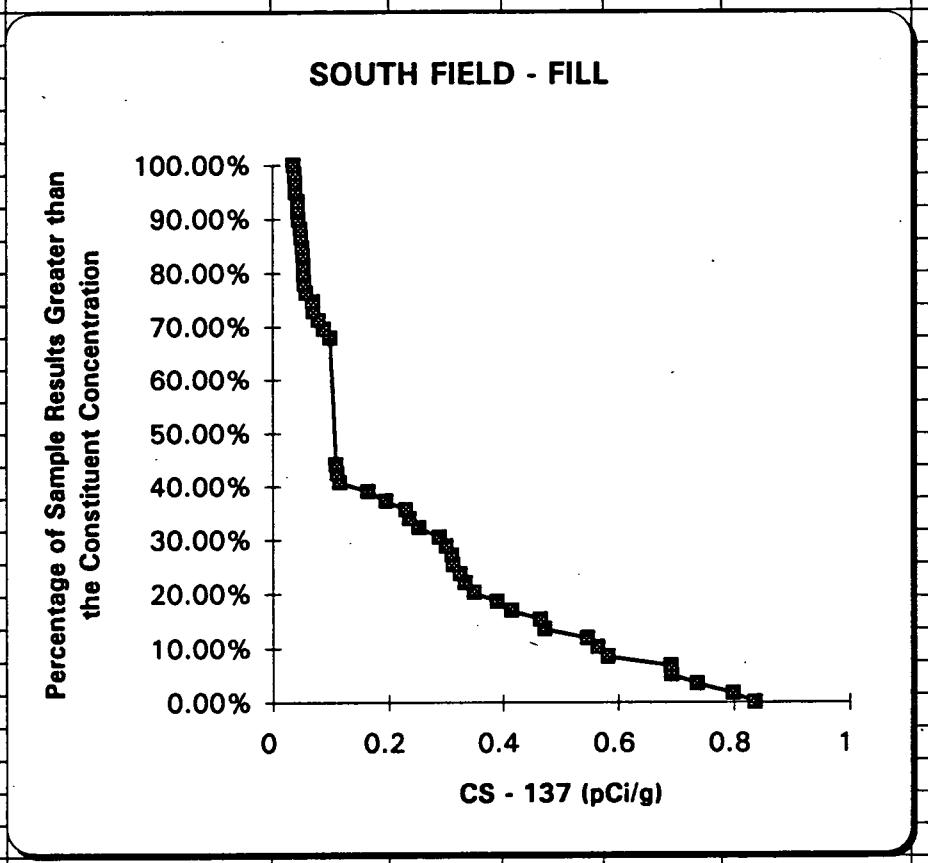

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110378	Dibenzo(a,h)anthracene	1972	1900	ug/kg	J	1900	100.00%
110297	Dibenzo(a,h)anthracene	SF-SS-17	1100	ug/kg	-	1100	98.11%
110382	Dibenzo(a,h)anthracene	1972	440	ug/kg	-	440	96.22%
110338	Dibenzo(a,h)anthracene	1969	500	ug/kg	U	250	94.33%
110351	Dibenzo(a,h)anthracene	1965	480	ug/kg	U	240	92.45%
110304	Dibenzo(a,h)anthracene	1977	230	ug/kg	J	230	88.67%
110355	Dibenzo(a,h)anthracene	1966	460	ug/kg	U	230	88.67%
110307	Dibenzo(a,h)anthracene	SF-SS-21	450	ug/kg	U	225	84.90%
110372	Dibenzo(a,h)anthracene	1970	450	ug/kg	U	225	84.90%
110335	Dibenzo(a,h)anthracene	1978	440	ug/kg	U	220	81.13%
110339	Dibenzo(a,h)anthracene	1969	440	ug/kg	U	220	81.13%
110331	Dibenzo(a,h)anthracene	1964	430	ug/kg	U	215	73.58%
110358	Dibenzo(a,h)anthracene	1967	430	ug/kg	U	215	73.58%
110392	Dibenzo(a,h)anthracene	1968	430	ug/kg	U	215	73.58%
112893	Dibenzo(a,h)anthracene	1970	430	ug/kg	U	215	73.58%
110290	Dibenzo(a,h)anthracene	SF-SS-20	420	ug/kg	U	210	62.26%
110324	Dibenzo(a,h)anthracene	1971	420	ug/kg	U	210	62.26%
110369	Dibenzo(a,h)anthracene	SF-SS-19	420	ug/kg	U	210	62.26%
112536	Dibenzo(a,h)anthracene	1971	420	ug/kg	U	210	62.26%
112648	Dibenzo(a,h)anthracene	1964	420	ug/kg	U	210	62.26%
112859	Dibenzo(a,h)anthracene	1966	420	ug/kg	U	210	62.26%
110321	Dibenzo(a,h)anthracene		410	ug/kg	U	205	47.16%
110385	Dibenzo(a,h)anthracene	1975	410	ug/kg	U	205	47.16%
110365	Dibenzo(a,h)anthracene	SF-SS-19	410	ug/kg	U	205	47.16%
110362	Dibenzo(a,h)anthracene	1967	410	ug/kg	U	205	47.16%
110327	Dibenzo(a,h)anthracene	1971	410	ug/kg	U	205	47.16%
110389	Dibenzo(a,h)anthracene	1975	410	ug/kg	U	205	47.16%
110571	Dibenzo(a,h)anthracene	1977	410	ug/kg	U	205	47.16%
112520	Dibenzo(a,h)anthracene	11187	410	ug/kg	U	205	47.16%
110396	Dibenzo(a,h)anthracene	1968	400	ug/kg	U	200	35.84%
110415	Dibenzo(a,h)anthracene	11187	400	ug/kg	U	200	35.84%
110406	Dibenzo(a,h)anthracene	1978	400	ug/kg	U	200	35.84%
112690	Dibenzo(a,h)anthracene	1970	400	ug/kg	U	200	35.84%
112835	Dibenzo(a,h)anthracene	1968	400	ug/kg	U	200	35.84%
055945	Dibenzo(a,h)anthracene	1465	400	ug/kg	U	200	35.84%
110413	Dibenzo(a,h)anthracene	11186	390	ug/kg	U	195	24.52%
110584	Dibenzo(a,h)anthracene	1972	390	ug/kg	U	195	24.52%
112696	Dibenzo(a,h)anthracene	1967	390	ug/kg	U	195	24.52%
067328	Dibenzo(a,h)anthracene	1794	390	ug/kg	U	195	24.52%
067367	Dibenzo(a,h)anthracene	1795	390	ug/kg	U	195	24.52%
110547	Dibenzo(a,h)anthracene	11188	390	ug/kg	UJ	195	24.52%
067324	Dibenzo(a,h)anthracene	1794	380	ug/kg	U	190	15.09%
067370	Dibenzo(a,h)anthracene	1795	380	ug/kg	U	190	15.09%
055932	Dibenzo(a,h)anthracene	1462	380	ug/kg	U	190	15.09%
055959	Dibenzo(a,h)anthracene	1468	380	ug/kg	U	190	15.09%
055972	Dibenzo(a,h)anthracene	1471	380	ug/kg	U	190	15.09%
112737	Dibenzo(a,h)anthracene	1965	370	ug/kg	U	185	9.43%
055906	Dibenzo(a,h)anthracene	1456	370	ug/kg	U	185	9.43%
113718	Dibenzo(a,h)anthracene		370	ug/kg	UJ	185	9.43%
110287	Dibenzo(a,h)anthracene	SF-SS-18	180	ug/kg	J	180	5.66%
067333	Dibenzo(a,h)anthracene	1793	360	ug/kg	U	180	5.66%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110340	Dibenzo(a,h)anthracene	11188	69	ug/kg	J	69	3.77%
110317	Dibenzo(a,h)anthracene		66	ug/kg	J	66	1.88%
110343	Dibenzo(a,h)anthracene	SF-SS-16	43	ug/kg	J	43	0.00%

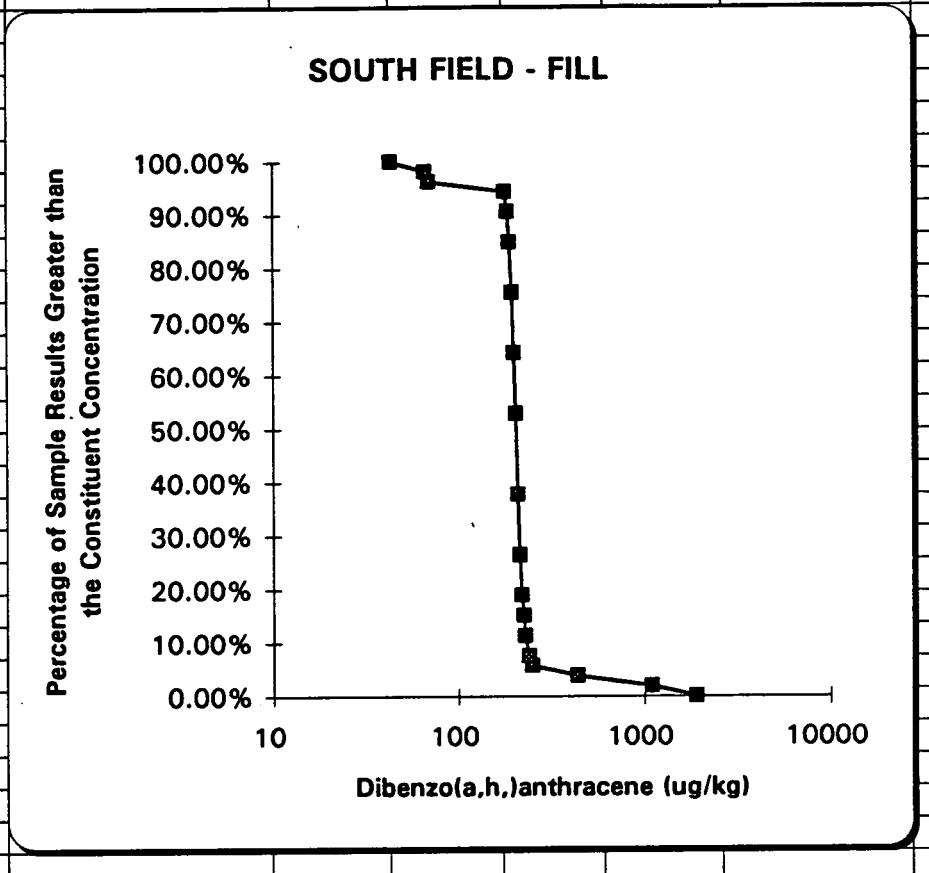

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055932	Dieldrin	1462	180	ug/kg	U	90	98.33%
055959	Dieldrin	1468	180	ug/kg	U	90	98.33%
110396	Dieldrin	1968	16	ug/kg	-	16	96.66%
067324	Dieldrin	1794	21	ug/kg	U	10.5	95.00%
067356	Dieldrin	1792	20	ug/kg	U	10	93.33%
110378	Dieldrin	1972	9.7	ug/kg	-	9.7	91.66%
067328	Dieldrin	1794	19	ug/kg	U	9.5	80.00%
067333	Dieldrin	1793	19	ug/kg	U	9.5	80.00%
067350	Dieldrin	1792	19	ug/kg	U	9.5	80.00%
067353	Dieldrin	1792	19	ug/kg	U	9.5	80.00%
067367	Dieldrin	1795	19	ug/kg	U	9.5	80.00%
067370	Dieldrin	1795	19	ug/kg	U	9.5	80.00%
055945	Dieldrin	1465	19	ug/kg	UJ	9.5	80.00%
067343	Dieldrin	1792	18	ug/kg	U	9	73.33%
067346	Dieldrin	1792	18	ug/kg	U	9	73.33%
055972	Dieldrin	1471	18	ug/kg	U	9	73.33%
055906	Dieldrin	1456	18	ug/kg	UJ	9	73.33%
110338	Dieldrin	1969	5	ug/kg	U	2.5	71.66%
110351	Dieldrin	1965	4.8	ug/kg	U	2.4	70.00%
110355	Dieldrin	1966	4.6	ug/kg	U	2.3	68.33%
110307	Dieldrin	SF-SS-21	4.5	ug/kg	U	2.25	63.33%
110372	Dieldrin	1970	4.5	ug/kg	U	2.25	63.33%
110339	Dieldrin	1969	4.5	ug/kg	U	2.25	63.33%
110335	Dieldrin	1978	4.4	ug/kg	U	2.2	61.66%
110317	Dieldrin		4.3	ug/kg	U	2.15	48.33%
110340	Dieldrin	11188	4.3	ug/kg	U	2.15	48.33%
110331	Dieldrin	1964	4.3	ug/kg	U	2.15	48.33%
110358	Dieldrin	1967	4.3	ug/kg	U	2.15	48.33%
110392	Dieldrin	1968	4.3	ug/kg	U	2.15	48.33%
110343	Dieldrin	SF-SS-16	4.3	ug/kg	U	2.15	48.33%
110405	Dieldrin	1966	4.3	ug/kg	U	2.15	48.33%
112893	Dieldrin	1970	4.3	ug/kg	U	2.15	48.33%
110297	Dieldrin	SF-SS-17	4.2	ug/kg	U	2.1	38.33%
110290	Dieldrin	SF-SS-20	4.2	ug/kg	U	2.1	38.33%
110369	Dieldrin	SF-SS-19	4.2	ug/kg	U	2.1	38.33%
112536	Dieldrin	1971	4.2	ug/kg	U	2.1	38.33%
112859	Dieldrin	1966	4.2	ug/kg	U	2.1	38.33%
113722	Dieldrin		4.2	ug/kg	U	2.1	38.33%
110321	Dieldrin		4.1	ug/kg	U	2.05	21.66%
110324	Dieldrin	1971	4.1	ug/kg	U	2.05	21.66%
110385	Dieldrin	1975	4.1	ug/kg	U	2.05	21.66%
110365	Dieldrin	SF-SS-19	4.1	ug/kg	U	2.05	21.66%
110362	Dieldrin	1967	4.1	ug/kg	U	2.05	21.66%
110327	Dieldrin	1971	4.1	ug/kg	U	2.05	21.66%
110389	Dieldrin	1975	4.1	ug/kg	U	2.05	21.66%
110571	Dieldrin	1977	4.1	ug/kg	U	2.05	21.66%
112648	Dieldrin	1964	4.1	ug/kg	U	2.05	21.66%
112690	Dieldrin	1970	4.1	ug/kg	U	2.05	21.66%
110304	Dieldrin	1977	4	ug/kg	U	2	10.00%
110382	Dieldrin	1972	4	ug/kg	U	2	10.00%
110415	Dieldrin	11187	4	ug/kg	U	2	10.00%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110406	Dieldrin	1978	4	ug/kg	U	2	10.00%
110584	Dieldrin	1972	4	ug/kg	U	2	10.00%
112520	Dieldrin	11187	4	ug/kg	U	2	10.00%
112696	Dieldrin	1967	4	ug/kg	U	2	10.00%
110287	Dieldrin	SF-SS-18	3.9	ug/kg	U	1.95	3.33%
110413	Dieldrin	11186	3.9	ug/kg	U	1.95	3.33%
110547	Dieldrin	11188	3.9	ug/kg	U	1.95	3.33%
112835	Dieldrin	1968	3.9	ug/kg	U	1.95	3.33%
112737	Dieldrin	1965	3.7	ug/kg	U	1.85	0.00%
113718	Dieldrin		3.7	ug/kg	UJ	1.85	0.00%

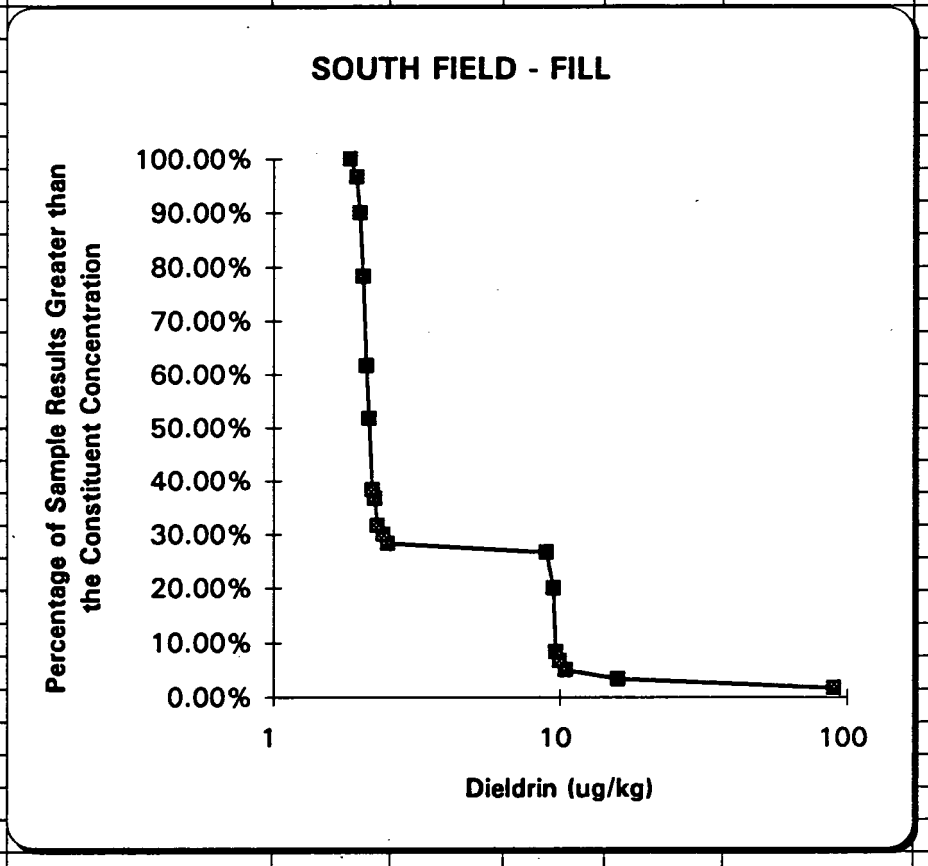

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110378	Indeno(1,2,3-cd)pyrene	1972	6000	ug/kg	-	6000	100.00%
110297	Indeno(1,2,3-cd)pyrene	SF-SS-17	3000	ug/kg	-	3000	98.11%
110304	Indeno(1,2,3-cd)pyrene	1977	620	ug/kg	-	620	96.22%
110287	Indeno(1,2,3-cd)pyrene	SF-SS-18	520	ug/kg	-	520	94.33%
110338	Indeno(1,2,3-cd)pyrene	1969	500	ug/kg	U	250	92.45%
110351	Indeno(1,2,3-cd)pyrene	1965	480	ug/kg	U	240	90.56%
110355	Indeno(1,2,3-cd)pyrene	1966	460	ug/kg	U	230	88.67%
110307	Indeno(1,2,3-cd)pyrene	SF-SS-21	450	ug/kg	U	225	86.79%
110335	Indeno(1,2,3-cd)pyrene	1978	440	ug/kg	U	220	83.01%
110339	Indeno(1,2,3-cd)pyrene	1969	440	ug/kg	U	220	83.01%
110331	Indeno(1,2,3-cd)pyrene	1964	430	ug/kg	U	215	75.47%
110358	Indeno(1,2,3-cd)pyrene	1967	430	ug/kg	U	215	75.47%
110392	Indeno(1,2,3-cd)pyrene	1968	430	ug/kg	U	215	75.47%
112893	Indeno(1,2,3-cd)pyrene	1970	430	ug/kg	U	215	75.47%
110382	Indeno(1,2,3-cd)pyrene	1972	210	ug/kg	J	210	64.15%
110340	Indeno(1,2,3-cd)pyrene	11188	210	ug/kg	J	210	64.15%
110324	Indeno(1,2,3-cd)pyrene	1971	420	ug/kg	U	210	64.15%
112536	Indeno(1,2,3-cd)pyrene	1971	420	ug/kg	U	210	64.15%
112648	Indeno(1,2,3-cd)pyrene	1964	420	ug/kg	U	210	64.15%
112859	Indeno(1,2,3-cd)pyrene	1966	420	ug/kg	U	210	64.15%
110321	Indeno(1,2,3-cd)pyrene		410	ug/kg	U	205	50.94%
110385	Indeno(1,2,3-cd)pyrene	1975	410	ug/kg	U	205	50.94%
110362	Indeno(1,2,3-cd)pyrene	1967	410	ug/kg	U	205	50.94%
110327	Indeno(1,2,3-cd)pyrene	1971	410	ug/kg	U	205	50.94%
110389	Indeno(1,2,3-cd)pyrene	1975	410	ug/kg	U	205	50.94%
110571	Indeno(1,2,3-cd)pyrene	1977	410	ug/kg	U	205	50.94%
112520	Indeno(1,2,3-cd)pyrene	11187	410	ug/kg	U	205	50.94%
110396	Indeno(1,2,3-cd)pyrene	1968	400	ug/kg	U	200	39.62%
110415	Indeno(1,2,3-cd)pyrene	11187	400	ug/kg	U	200	39.62%
110406	Indeno(1,2,3-cd)pyrene	1978	400	ug/kg	U	200	39.62%
112690	Indeno(1,2,3-cd)pyrene	1970	400	ug/kg	U	200	39.62%
112835	Indeno(1,2,3-cd)pyrene	1968	400	ug/kg	U	200	39.62%
055945	Indeno(1,2,3-cd)pyrene	1465	400	ug/kg	U	200	39.62%
110413	Indeno(1,2,3-cd)pyrene	11186	390	ug/kg	U	195	30.18%
110584	Indeno(1,2,3-cd)pyrene	1972	390	ug/kg	U	195	30.18%
112696	Indeno(1,2,3-cd)pyrene	1967	390	ug/kg	U	195	30.18%
067328	Indeno(1,2,3-cd)pyrene	1794	390	ug/kg	U	195	30.18%
110547	Indeno(1,2,3-cd)pyrene	11188	390	ug/kg	UJ	195	30.18%
067324	Indeno(1,2,3-cd)pyrene	1794	380	ug/kg	U	190	20.75%
067370	Indeno(1,2,3-cd)pyrene	1795	380	ug/kg	U	190	20.75%
055932	Indeno(1,2,3-cd)pyrene	1462	380	ug/kg	U	190	20.75%
055959	Indeno(1,2,3-cd)pyrene	1468	380	ug/kg	U	190	20.75%
055972	Indeno(1,2,3-cd)pyrene	1471	380	ug/kg	U	190	20.75%
112737	Indeno(1,2,3-cd)pyrene	1965	370	ug/kg	U	185	16.98%
055906	Indeno(1,2,3-cd)pyrene	1456	370	ug/kg	U	185	16.98%
067333	Indeno(1,2,3-cd)pyrene	1793	360	ug/kg	U	180	15.09%
110317	Indeno(1,2,3-cd)pyrene		150	ug/kg	J	150	13.20%
110343	Indeno(1,2,3-cd)pyrene	SF-SS-16	110	ug/kg	J	110	11.32%
067367	Indeno(1,2,3-cd)pyrene	1795	84	ug/kg	J	84	9.43%
110369	Indeno(1,2,3-cd)pyrene	SF-SS-19	77	ug/kg	J	77	7.54%
110372	Indeno(1,2,3-cd)pyrene	1970	52	ug/kg	J	52	5.66%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110365	Indeno(1,2,3-cd)pyrene	SF-SS-19	51	ug/kg	J	51	3.77%
110290	Indeno(1,2,3-cd)pyrene	SF-SS-20	45	ug/kg	J	45	1.88%
113718	Indeno(1,2,3-cd)pyrene		42	ug/kg	J	42	0.00%

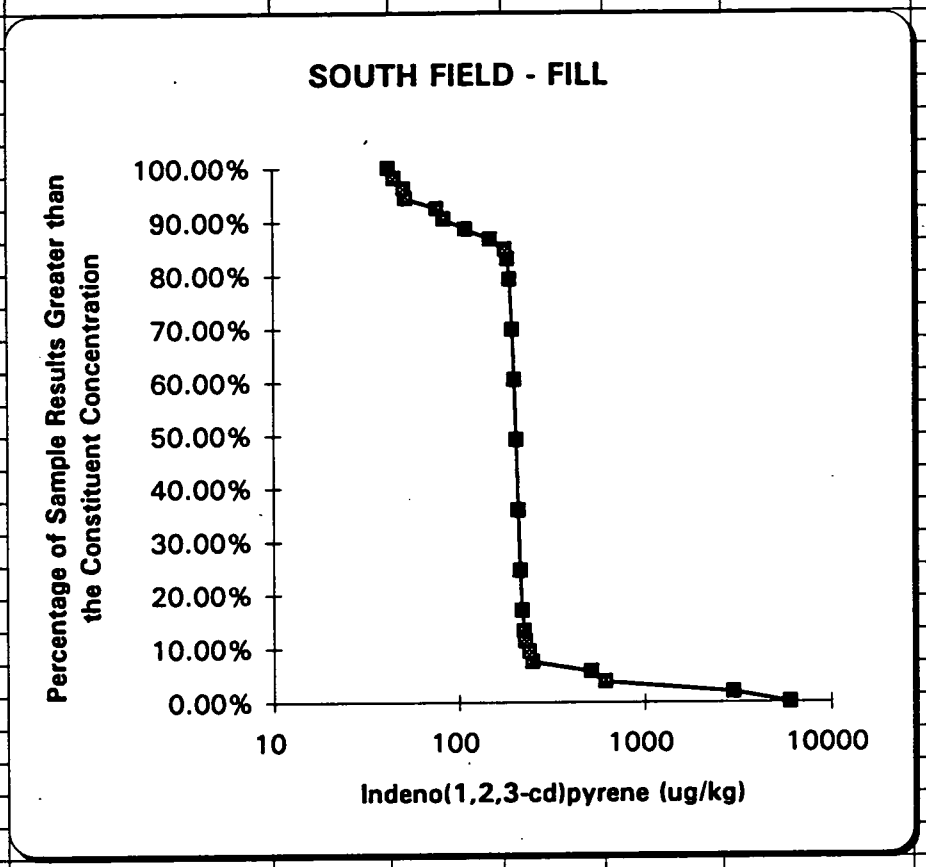

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110351	Neptunium-237	1965	0.483	pci/g	N	0.483	100.00%
110571	Neptunium-237	1977	0.44	pci/g	N	0.44	98.00%
110584	Neptunium-237	1972	0.369	pci/g	N	0.369	96.00%
110339	Neptunium-237	1969	0.356	pci/g	N	0.356	94.00%
110304	Neptunium-237	1977	0.336	pci/g	N	0.336	92.00%
112520	Neptunium-237	11187	0.316	pci/g	N	0.316	90.00%
055900	Neptunium-237	1455	0.6	pci/g	U	0.3	60.00%
055902	Neptunium-237	1456	0.6	pci/g	U	0.3	60.00%
047019	Neptunium-237	1433	0.6	pci/g	UJ	0.3	60.00%
055917	Neptunium-237	1460	0.6	pci/g	UJ	0.3	60.00%
055913	Neptunium-237	1458	0.6	pci/g	UJ	0.3	60.00%
055915	Neptunium-237	1459	0.6	pci/g	UJ	0.3	60.00%
055939	Neptunium-237	1464	0.6	pci/g	UJ	0.3	60.00%
055943	Neptunium-237	1466	0.6	pci/g	UJ	0.3	60.00%
055941	Neptunium-237	1465	0.6	pci/g	UJ	0.3	60.00%
055952	Neptunium-237	1467	0.6	pci/g	UJ	0.3	60.00%
055954	Neptunium-237	1468	0.6	pci/g	UJ	0.3	60.00%
055956	Neptunium-237	1469	0.6	pci/g	UJ	0.3	60.00%
055966	Neptunium-237	1470	0.6	pci/g	UJ	0.3	60.00%
055968	Neptunium-237	1471	0.6	pci/g	UJ	0.3	60.00%
055970	Neptunium-237	1472	0.6	pci/g	UJ	0.3	60.00%
110405	Neptunium-237	1966	0.283	pci/g	N	0.283	58.00%
110340	Neptunium-237	11188	0.239	pci/g	N	0.239	56.00%
110317	Neptunium-237		0.226	pci/g	N	0.226	54.00%
110406	Neptunium-237	1978	0.219	pci/g	N	0.219	52.00%
110355	Neptunium-237	1966	0.214	pci/g	N	0.214	50.00%
110392	Neptunium-237	1968	0.185	pci/g	N	0.185	48.00%
110331	Neptunium-237	1964	0.18	pci/g	N	0.18	46.00%
110335	Neptunium-237	1978	0.177	pci/g	N	0.177	44.00%
110413	Neptunium-237	11186	0.167	pci/g	N	0.167	42.00%
110362	Neptunium-237	1967	0.166	pci/g	N	0.166	40.00%
110415	Neptunium-237	11187	0.142	pci/g	N	0.142	38.00%
110338	Neptunium-237	1969	0.136	pci/g	N	0.136	36.00%
113105	Neptunium-237		0.12	pci/g	N	0.12	34.00%
110396	Neptunium-237	1968	0.116	pci/g	N	0.116	32.00%
110385	Neptunium-237	1975	0.11	pci/g	N	0.11	28.00%
110365	Neptunium-237	SF-SS-19	0.11	pci/g	N	0.11	28.00%
110343	Neptunium-237	SF-SS-16	0.092	pci/g	N	0.092	26.00%
110547	Neptunium-237	11188	0.0776	pci/g	N	0.0776	24.00%
110327	Neptunium-237	1971	0.077	pci/g	N	0.077	22.00%
110369	Neptunium-237	SF-SS-19	0.076	pci/g	N	0.076	20.00%
112835	Neptunium-237	1968	0.0752	pci/g	N	0.0752	18.00%
112648	Neptunium-237	1964	0.07	pci/g	N	0.07	16.00%
110307	Neptunium-237	SF-SS-21	0.056	pci/g	N	0.056	14.00%
110358	Neptunium-237	1967	0.074	pci/g	U	0.037	12.00%
112737	Neptunium-237	1965	0.0321	pci/g	N	0.0321	10.00%
112893	Neptunium-237	1970	0.06	pci/g	U	0.03	8.00%
110287	Neptunium-237	SF-SS-18	0.052	pci/g	U	0.026	6.00%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
112690	Neptunium-237	1970	0.05	pci/g	U	0.025	2.00%
113722	Neptunium-237		0.05	pci/g	U	0.025	2.00%
112696	Neptunium-237	1967	0.03	pci/g	U	0.015	0.00%

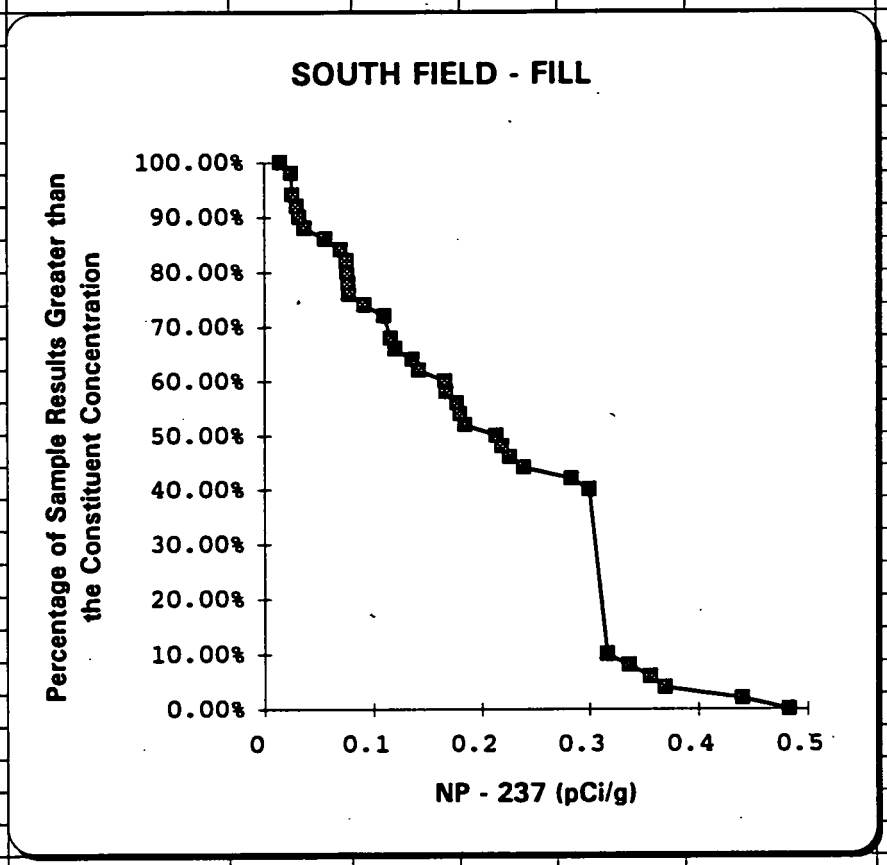

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110382	Radium-226	1972	31.2	pci/g	-	31.2	100.00%
110317	Radium-226		30.8	pci/g	-	30.8	98.36%
110378	Radium-226	1972	21.6	pci/g	-	21.6	96.72%
113724	Radium-226		9.21	pci/g	-	9.21	95.08%
047019	Radium-226	1433	7.67	pci/g	-	7.67	93.44%
055900	Radium-226	1455	5.93	pci/g	J	5.93	91.80%
113722	Radium-226		5.76	pci/g	-	5.76	90.16%
110584	Radium-226	1972	5.14	pci/g	-	5.14	88.52%
110307	Radium-226	SF-SS-21	3.24	pci/g	-	3.24	86.88%
110413	Radium-226	11186	3.01	pci/g	-	3.01	85.24%
110297	Radium-226	SF-SS-17	1.92	pci/g	-	1.92	83.60%
112859	Radium-226	1966	1.84	pci/g	-	1.84	81.96%
110351	Radium-226	1965	1.8	pci/g	-	1.8	80.32%
113105	Radium-226		1.77	pci/g	-	1.77	78.68%
110355	Radium-226	1966	1.74	pci/g	-	1.74	77.04%
110415	Radium-226	11187	1.64	pci/g	-	1.64	75.40%
055915	Radium-226	1459	1.6	pci/g	J	1.6	73.77%
110389	Radium-226	1975	1.51	pci/g	-	1.51	72.13%
055913	Radium-226	1458	1.48	pci/g	J	1.48	70.49%
110340	Radium-226	11188	1.44	pci/g	J	1.44	68.85%
110365	Radium-226	SF-SS-19	1.43	pci/g	-	1.43	67.21%
110547	Radium-226	11188	1.42	pci/g	-	1.42	65.57%
055970	Radium-226	1472	1.33	pci/g	-	1.33	62.29%
110343	Radium-226	SF-SS-16	1.33	pci/g	J	1.33	62.29%
055928	Radium-226	1462	1.3	pci/g	J	1.3	60.65%
112536	Radium-226	1971	1.25	pci/g	-	1.25	57.37%
110339	Radium-226	1969	1.25	pci/g	J	1.25	57.37%
110405	Radium-226	1966	1.24	pci/g	-	1.24	54.09%
055968	Radium-226	1471	1.24	pci/g	-	1.24	54.09%
112648	Radium-226	1964	1.23	pci/g	-	1.23	50.81%
055926	Radium-226	1461	1.23	pci/g	J	1.23	50.81%
110331	Radium-226	1964	1.22	pci/g	J	1.22	45.90%
110335	Radium-226	1978	1.22	pci/g	J	1.22	45.90%
110369	Radium-226	SF-SS-19	1.22	pci/g	J	1.22	45.90%
112520	Radium-226	11187	1.21	pci/g	-	1.21	42.62%
110327	Radium-226	1971	1.21	pci/g	J	1.21	42.62%
112835	Radium-226	1968	1.17	pci/g	-	1.17	39.34%
110338	Radium-226	1969	1.17	pci/g	J	1.17	39.34%
110321	Radium-226		1.16	pci/g	-	1.16	36.06%
110571	Radium-226	1977	1.16	pci/g	-	1.16	36.06%
110372	Radium-226	1970	1.14	pci/g	J	1.14	32.78%
110392	Radium-226	1968	1.14	pci/g	J	1.14	32.78%
110304	Radium-226	1977	1.12	pci/g	-	1.12	29.50%
112737	Radium-226	1965	1.12	pci/g	-	1.12	29.50%
112893	Radium-226	1970	1.09	pci/g	-	1.09	27.86%
110396	Radium-226	1968	1.08	pci/g	J	1.08	26.22%
112696	Radium-226	1967	1.07	pci/g	-	1.07	24.59%
110290	Radium-226	SF-SS-20	1.06	pci/g	-	1.06	21.31%
055917	Radium-226	1460	1.06	pci/g	J	1.06	21.31%
110287	Radium-226	SF-SS-18	1.04	pci/g	-	1.04	18.03%
110406	Radium-226	1978	1.04	pci/g	-	1.04	18.03%
110385	Radium-226	1975	1.02	pci/g	J	1.02	16.39%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
112690	Radium-226	1970	0.95	pci/g	-	0.95	13.11%
110358	Radium-226	1967	0.95	pci/g	J	0.95	13.11%
055930	Radium-226	1463	0.94	pci/g	-	0.94	8.19%
055902	Radium-226	1456	0.94	pci/g	J	0.94	8.19%
055954	Radium-226	1468	0.94	pci/g	J	0.94	8.19%
055956	Radium-226	1469	0.9	pci/g	DJ	0.9	6.55%
110324	Radium-226	1971	0.874	pci/g	J	0.874	4.91%
113725	Radium-226		1.2	pci/g	U	0.6	3.27%
110362	Radium-226	1967	1.02	pci/g	U	0.51	1.63%
055952	Radium-226	1467	0.304	pci/g	U	0.152	0.00%

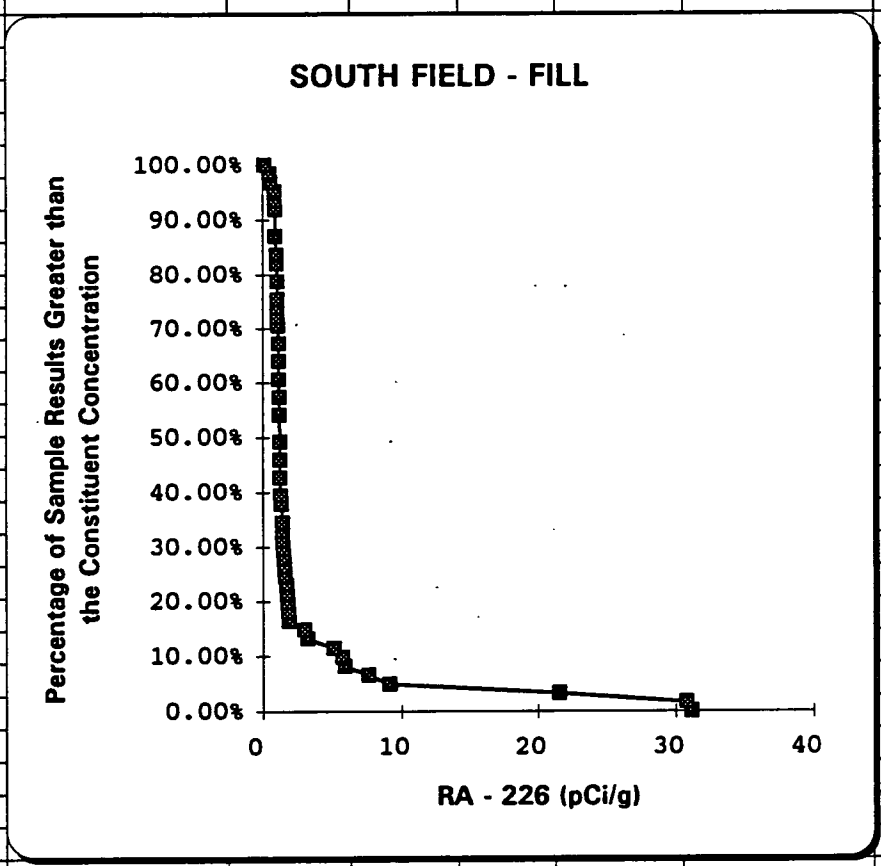

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
113725	Radium-228		675	pci/g	-	675	100.00%
047019	Radium-228	1433	19	pci/g	-	19	98.33%
110355	Radium-228	1966	3.88	pci/g	-	3.88	96.66%
113105	Radium-228		3.74	pci/g	-	3.74	95.00%
110405	Radium-228	1966	3.38	pci/g	-	3.38	93.33%
110415	Radium-228	11187	2.23	pci/g	-	2.23	91.66%
110382	Radium-228	1972	2.07	pci/g	-	2.07	90.00%
110321	Radium-228		1.92	pci/g	-	1.92	88.33%
110317	Radium-228		1.65	pci/g	-	1.65	85.00%
113724	Radium-228		1.65	pci/g	-	1.65	85.00%
112520	Radium-228	11187	1.54	pci/g	-	1.54	81.66%
112536	Radium-228	1971	1.54	pci/g	-	1.54	81.66%
055915	Radium-228	1459	1.37	pci/g	J	1.37	80.00%
110339	Radium-228	1969	1.32	pci/g	-	1.32	78.33%
110297	Radium-228	SF-SS-17	1.31	pci/g	-	1.31	75.00%
110547	Radium-228	11188	1.31	pci/g	-	1.31	75.00%
110307	Radium-228	SF-SS-21	1.29	pci/g	-	1.29	73.33%
055900	Radium-228	1455	1.27	pci/g	J	1.27	71.66%
110290	Radium-228	SF-SS-20	1.26	pci/g	-	1.26	68.33%
110389	Radium-228	1975	1.26	pci/g	-	1.26	68.33%
110351	Radium-228	1965	1.21	pci/g	-	1.21	66.66%
110343	Radium-228	SF-SS-16	1.2	pci/g	-	1.2	65.00%
110304	Radium-228	1977	1.18	pci/g	-	1.18	61.66%
110327	Radium-228	1971	1.18	pci/g	-	1.18	61.66%
110378	Radium-228	1972	1.17	pci/g	-	1.17	60.00%
110365	Radium-228	SF-SS-19	1.16	pci/g	-	1.16	58.33%
112859	Radium-228	1966	1.15	pci/g	-	1.15	56.66%
110584	Radium-228	1972	1.14	pci/g	-	1.14	55.00%
110413	Radium-228	11186	1.12	pci/g	-	1.12	51.66%
112737	Radium-228	1965	1.12	pci/g	-	1.12	51.66%
110369	Radium-228	SF-SS-19	1.09	pci/g	-	1.09	50.00%
112690	Radium-228	1970	1.08	pci/g	-	1.08	48.33%
110331	Radium-228	1964	1.07	pci/g	-	1.07	45.00%
110338	Radium-228	1969	1.07	pci/g	-	1.07	45.00%
110385	Radium-228	1975	1.06	pci/g	-	1.06	40.00%
110362	Radium-228	1967	1.06	pci/g	-	1.06	40.00%
055926	Radium-228	1461	1.06	pci/g	J	1.06	40.00%
110372	Radium-228	1970	1.05	pci/g	-	1.05	35.00%
110358	Radium-228	1967	1.05	pci/g	-	1.05	35.00%
055952	Radium-228	1467	1.05	pci/g	-	1.05	35.00%
112696	Radium-228	1967	1.04	pci/g	-	1.04	33.33%
110406	Radium-228	1978	1.03	pci/g	-	1.03	31.66%
110392	Radium-228	1968	1.02	pci/g	-	1.02	30.00%
110340	Radium-228	11188	1	pci/g	-	1	26.66%
110396	Radium-228	1968	1	pci/g	-	1	26.66%
055968	Radium-228	1471	0.994	pci/g	-	0.994	25.00%
110324	Radium-228	1971	0.986	pci/g	-	0.986	23.33%
110335	Radium-228	1978	0.973	pci/g	-	0.973	21.66%
110571	Radium-228	1977	0.97	pci/g	-	0.97	20.00%
055970	Radium-228	1472	0.961	pci/g	-	0.961	18.33%
112835	Radium-228	1968	0.959	pci/g	-	0.959	16.66%
055917	Radium-228	1460	0.94	pci/g	J	0.94	15.00%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
112893	Radium-228	1970	0.92	pci/g	-	0.92	13.33%
110287	Radium-228	SF-SS-18	0.917	pci/g	-	0.917	11.66%
055902	Radium-228	1456	0.9	pci/g	J	0.9	8.33%
055954	Radium-228	1468	0.9	pci/g	J	0.9	8.33%
112648	Radium-228	1964	0.86	pci/g	-	0.86	6.66%
055928	Radium-228	1462	0.81	pci/g	J	0.81	5.00%
113722	Radium-228		0.74	pci/g	-	0.74	1.66%
055956	Radium-228	1469	0.74	pci/g	DJ	0.74	1.66%
055930	Radium-228	1463	0.73	pci/g	-	0.73	0.00%

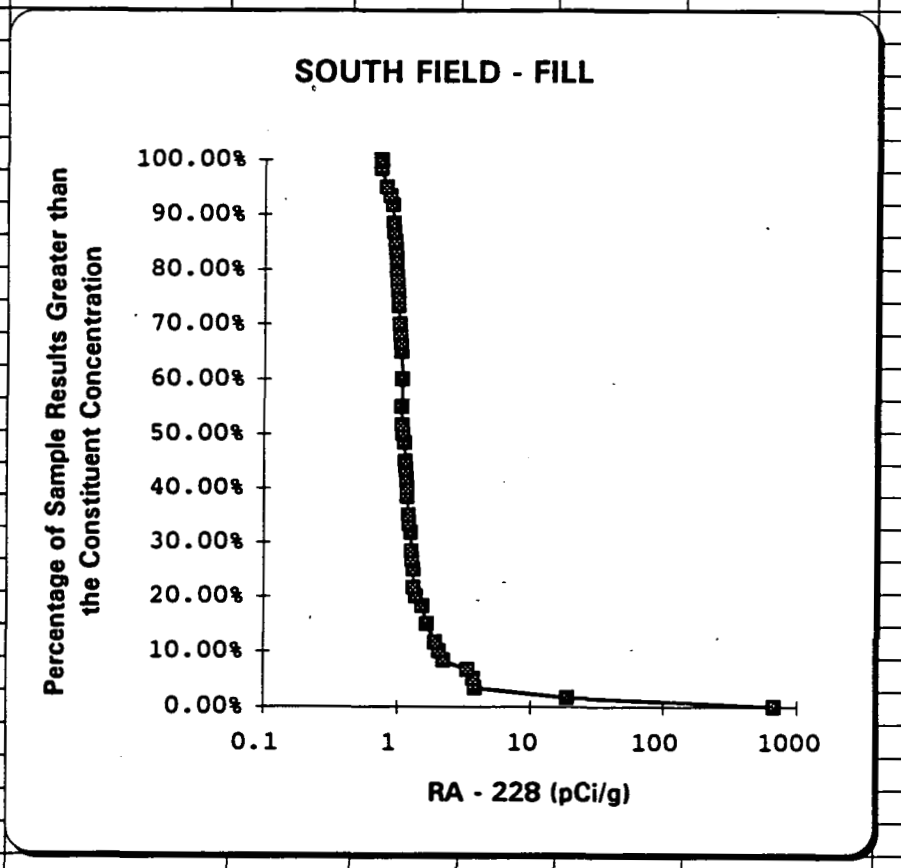

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110547	Strontium-90	11188	2.39	pci/g	J	2.39	100.00%
47019	Strontium-90	1433	1.91	pci/g	-	1.91	98.20%
112536	Strontium-90	1971	1.36	pci/g	J	1.36	96.40%
110584	Strontium-90	1972	1.28	pci/g	J	1.28	94.70%
110335	Strontium-90	1978	1	pci/g	-	1	92.90%
110287	Strontium-90	SF-SS-18	0.942	pci/g	J	0.942	91.20%
110369	Strontium-90	SF-SS-19	0.894	pci/g	J	0.894	89.40%
112859	Strontium-90	1966	0.861	pci/g	J	0.861	87.70%
112690	Strontium-90	1970	0.8	pci/g	J	0.8	85.90%
112893	Strontium-90	1970	0.69	pci/g	J	0.69	84.20%
110351	Strontium-90	1965	0.534	pci/g	-	0.534	82.40%
110339	Strontium-90	1969	0.508	pci/g	-	0.508	80.70%
112737	Strontium-90	1965	0.443	pci/g	J	0.443	78.90%
110290	Strontium-90	SF-SS-20	0.744	pci/g	UJ	0.372	77.10%
110331	Strontium-90	1964	0.355	pci/g	N	0.355	75.40%
110362	Strontium-90	1967	0.603	pci/g	UJ	0.3015	73.60%
110307	Strontium-90	SF-SS-21	0.601	pci/g	UJ	0.3005	71.90%
110389	Strontium-90	1975	0.56	pci/g	UJ	0.28	70.10%
110324	Strontium-90	1971	0.553	pci/g	UJ	0.2765	68.40%
112648	Strontium-90	1964	0.51	pci/g	UJ	0.255	66.60%
110297	Strontium-90	SF-SS-17	0.508	pci/g	UJ	0.254	64.90%
55902	Strontium-90	1456	0.5	pci/g	U	0.25	45.60%
55917	Strontium-90	1460	0.5	pci/g	U	0.25	45.60%
55930	Strontium-90	1463	0.5	pci/g	U	0.25	45.60%
55928	Strontium-90	1462	0.5	pci/g	U	0.25	45.60%
55939	Strontium-90	1464	0.5	pci/g	UJ	0.25	45.60%
55943	Strontium-90	1466	0.5	pci/g	U	0.25	45.60%
55941	Strontium-90	1465	0.5	pci/g	U	0.25	45.60%
55952	Strontium-90	1467	0.5	pci/g	U	0.25	45.60%
55956	Strontium-90	1469	0.5	pci/g	U	0.25	45.60%
55966	Strontium-90	1470	0.5	pci/g	U	0.25	45.60%
55968	Strontium-90	1471	0.5	pci/g	U	0.25	45.60%
110340	Strontium-90	11188	0.498	pci/g	UJ	0.249	43.80%
112520	Strontium-90	11187	0.494	pci/g	UJ	0.247	42.10%
110338	Strontium-90	1969	0.491	pci/g	UJ	0.2455	38.50%
110343	Strontium-90	SF-SS-16	0.491	pci/g	UJ	0.2455	38.50%
110304	Strontium-90	1977	0.485	pci/g	UJ	0.2425	36.80%
110365	Strontium-90	SF-SS-19	0.481	pci/g	UJ	0.2405	35.00%
112696	Strontium-90	1967	0.48	pci/g	UJ	0.24	33.30%
110396	Strontium-90	1968	0.478	pci/g	UJ	0.239	31.50%
110382	Strontium-90	1972	0.46	pci/g	UJ	0.23	28.00%
110571	Strontium-90	1977	0.46	pci/g	UJ	0.23	28.00%
110415	Strontium-90	11187	0.431	pci/g	UJ	0.2155	26.30%
110392	Strontium-90	1968	0.428	pci/g	UJ	0.214	24.50%
110321	Strontium-90		0.42	pci/g	UJ	0.21	21.00%
110372	Strontium-90	1970	0.42	pci/g	UJ	0.21	21.00%
112835	Strontium-90	1968	0.412	pci/g	UJ	0.206	19.20%
110406	Strontium-90	1978	0.41	pci/g	UJ	0.205	17.50%
110317	Strontium-90		0.396	pci/g	UJ	0.198	15.70%
110355	Strontium-90	1966	0.393	pci/g	UJ	0.1965	14.00%
110378	Strontium-90	1972	0.387	pci/g	UJ	0.1935	12.20%
110413	Strontium-90	11186	0.382	pci/g	UJ	0.191	10.50%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110358	Strontium-90	1967	0.36	pci/g	UJ	0.18	8.70%
110327	Strontium-90	1971	0.359	pci/g	UJ	0.1795	7.00%
110405	Strontium-90	1966	0.352	pci/g	UJ	0.176	5.20%
110385	Strontium-90	1975	0.16	pci/g	J	0.16	3.50%
113105	Strontium-90		0.25	pci/g	U	0.125	1.70%
113722	Strontium-90		0.21	pci/g	UJ	0.105	.00%

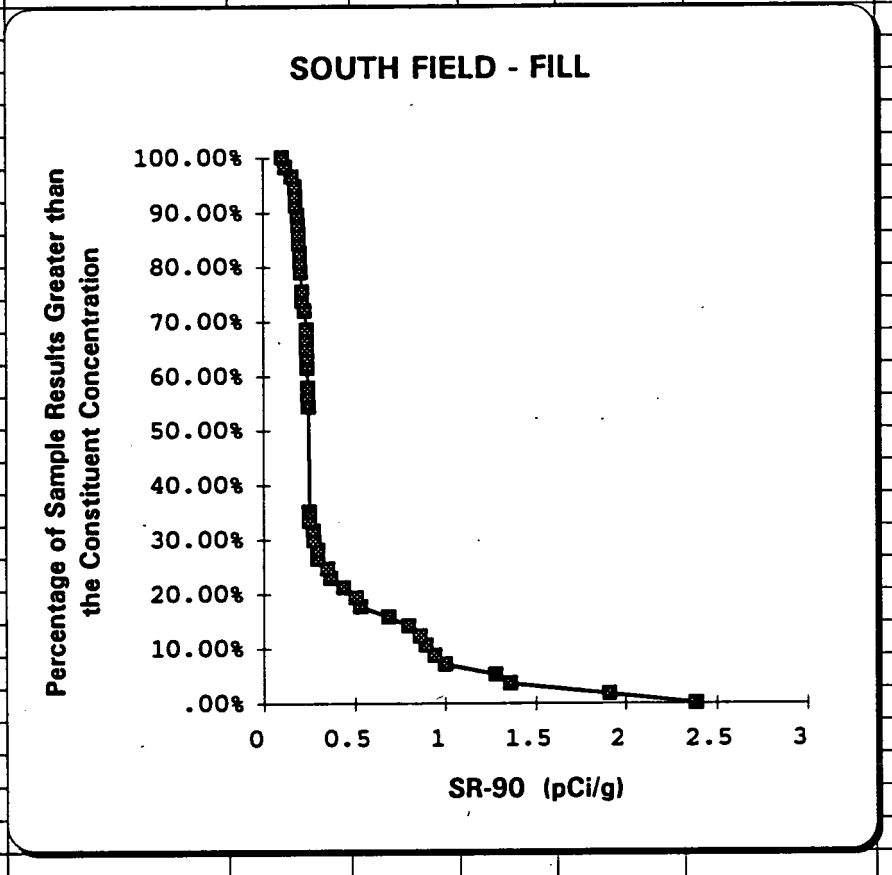

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110385	Technetium-99	1975	142	pci/g	J	142	100.00%
055968	Technetium-99	1471	0.9	pci/g	-	0.9	97.95%
055966	Technetium-99	1470	0.9	pci/g	U	0.45	91.83%
055970	Technetium-99	1472	0.9	pci/g	U	0.45	91.83%
047019	Technetium-99	1433	0.9	pci/g	UJ	0.45	91.83%
113722	Technetium-99		0.66	pci/g	UJ	0.33	89.79%
113105	Technetium-99		0.54	pci/g	UJ	0.27	87.75%
112648	Technetium-99	1964	0.46	pci/g	UJ	0.23	85.71%
112893	Technetium-99	1970	0.45	pci/g	UJ	0.225	83.67%
112859	Technetium-99	1966	0.416	pci/g	UJ	0.208	81.63%
112690	Technetium-99	1970	0.41	pci/g	UJ	0.205	79.59%
112520	Technetium-99	11187	0.407	pci/g	UJ	0.2035	77.55%
110571	Technetium-99	1977	0.4	pci/g	UJ	0.2	73.46%
112696	Technetium-99	1967	0.4	pci/g	UJ	0.2	73.46%
112835	Technetium-99	1968	0.396	pci/g	UJ	0.198	71.42%
110355	Technetium-99	1966	0.392	pci/g	UJ	0.196	69.38%
110547	Technetium-99	11188	0.39	pci/g	UJ	0.195	67.34%
112737	Technetium-99	1965	0.385	pci/g	UJ	0.1925	65.30%
110378	Technetium-99	1972	0.377	pci/g	UJ	0.1885	63.26%
110321	Technetium-99		0.374	pci/g	UJ	0.187	61.22%
110415	Technetium-99	11187	0.372	pci/g	UJ	0.186	59.18%
110297	Technetium-99	SF-SS-17	0.371	pci/g	UJ	0.1855	55.10%
110317	Technetium-99		0.371	pci/g	UJ	0.1855	55.10%
110372	Technetium-99	1970	0.368	pci/g	UJ	0.184	53.06%
110304	Technetium-99	1977	0.365	pci/g	UJ	0.1825	48.97%
110584	Technetium-99	1972	0.365	pci/g	UJ	0.1825	48.97%
110290	Technetium-99	SF-SS-20	0.363	pci/g	UJ	0.1815	46.93%
110307	Technetium-99	SF-SS-21	0.362	pci/g	UJ	0.181	44.89%
110287	Technetium-99	SF-SS-18	0.361	pci/g	UJ	0.1805	38.77%
110382	Technetium-99	1972	0.361	pci/g	UJ	0.1805	38.77%
110335	Technetium-99	1978	0.361	pci/g	UJ	0.1805	38.77%
110327	Technetium-99	1971	0.357	pci/g	UJ	0.1785	36.73%
110406	Technetium-99	1978	0.355	pci/g	UJ	0.1775	34.69%
110413	Technetium-99	11186	0.351	pci/g	UJ	0.1755	32.65%
110389	Technetium-99	1975	0.35	pci/g	UJ	0.175	30.61%
112536	Technetium-99	1971	0.348	pci/g	UJ	0.174	28.57%
110343	Technetium-99	SF-SS-16	0.346	pci/g	UJ	0.173	26.53%
110392	Technetium-99	1968	0.345	pci/g	UJ	0.1725	24.48%
110339	Technetium-99	1969	0.344	pci/g	UJ	0.172	22.44%
110340	Technetium-99	11188	0.343	pci/g	UJ	0.1715	18.36%
110362	Technetium-99	1967	0.343	pci/g	UJ	0.1715	18.36%
110331	Technetium-99	1964	0.342	pci/g	UJ	0.171	14.28%
110405	Technetium-99	1966	0.342	pci/g	UJ	0.171	14.28%
110365	Technetium-99	SF-SS-19	0.339	pci/g	UJ	0.1695	12.24%
110324	Technetium-99	1971	0.335	pci/g	UJ	0.1675	10.20%
110351	Technetium-99	1965	0.333	pci/g	UJ	0.1665	8.16%
110338	Technetium-99	1969	0.33	pci/g	UJ	0.165	6.12%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110369	Technetium-99	SF-SS-19	0.324	pci/g	UJ	0.162	4.08%
110396	Technetium-99	1968	0.322	pci/g	UJ	0.161	2.04%
110358	Technetium-99	1967	0.31	pci/g	UJ	0.155	0.00%

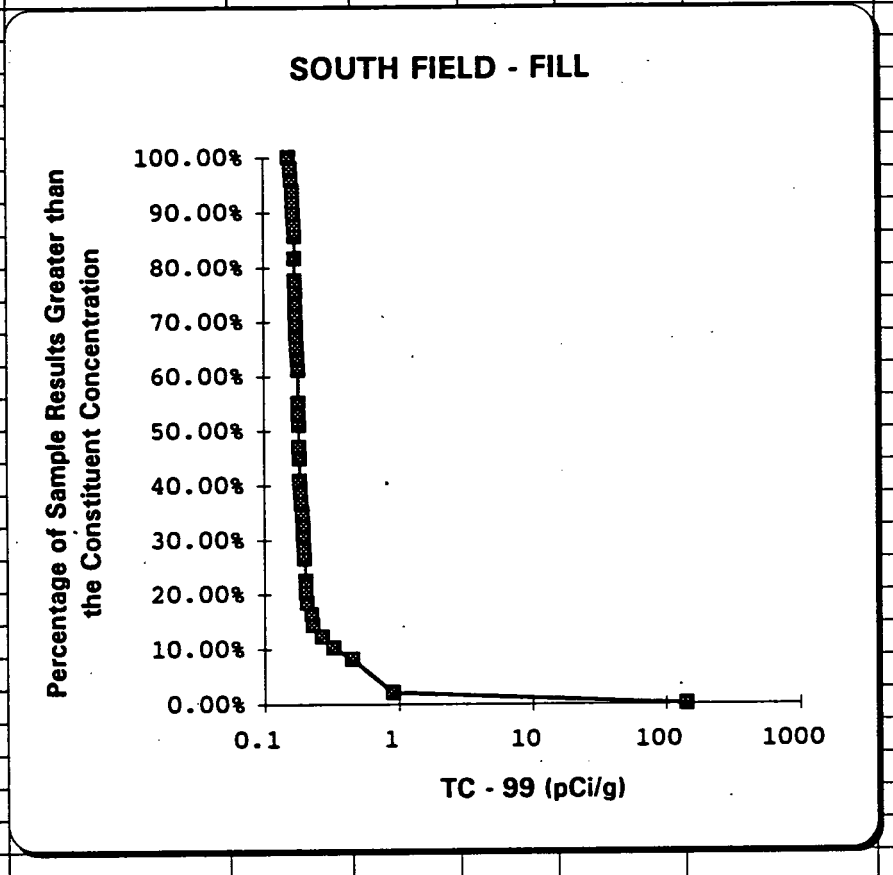

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
113725	Thorium-228		595	pci/g	-	595	100.00%
047019	Thorium-228	1433	20.3	pci/g	J	20.3	98.21%
113724	Thorium-228		13.4	pci/g	-	13.4	96.42%
055930	Thorium-228	1463	5.32	pci/g	J	5.32	94.64%
110355	Thorium-228	1966	4.41	pci/g	-	4.41	92.85%
110405	Thorium-228	1966	2.86	pci/g	-	2.86	91.07%
113105	Thorium-228		2.55	pci/g	J	2.55	89.28%
110415	Thorium-228	11187	2.09	pci/g	-	2.09	87.50%
055913	Thorium-228	1458	1.78	pci/g	J	1.78	85.71%
110321	Thorium-228		1.71	pci/g	-	1.71	83.92%
055900	Thorium-228	1455	1.52	pci/g	J	1.52	80.35%
055915	Thorium-228	1459	1.52	pci/g	J	1.52	80.35%
112520	Thorium-228	11187	1.28	pci/g	-	1.28	76.78%
055917	Thorium-228	1460	1.28	pci/g	J	1.28	76.78%
055926	Thorium-228	1461	1.27	pci/g	J	1.27	75.00%
110317	Thorium-228		1.25	pci/g	-	1.25	73.21%
055941	Thorium-228	1465	1.12	pci/g	J	1.12	71.42%
055966	Thorium-228	1470	1.1	pci/g	-	1.1	69.64%
110343	Thorium-228	SF-SS-16	1.08	pci/g	-	1.08	67.85%
055902	Thorium-228	1456	1.07	pci/g	J	1.07	66.07%
110304	Thorium-228	1977	1.06	pci/g	-	1.06	64.28%
110413	Thorium-228	11186	1.05	pci/g	-	1.05	62.50%
110372	Thorium-228	1970	1.03	pci/g	-	1.03	60.71%
110335	Thorium-228	1978	1.02	pci/g	-	1.02	58.92%
055970	Thorium-228	1472	0.999	pci/g	-	0.999	57.14%
055939	Thorium-228	1464	0.983	pci/g	J	0.983	53.57%
055952	Thorium-228	1467	0.983	pci/g	J	0.983	53.57%
055928	Thorium-228	1462	0.982	pci/g	J	0.982	51.78%
110385	Thorium-228	1975	0.98	pci/g	-	0.98	50.00%
110547	Thorium-228	11188	0.979	pci/g	-	0.979	48.21%
110327	Thorium-228	1971	0.965	pci/g	-	0.965	46.42%
110584	Thorium-228	1972	0.94	pci/g	-	0.94	44.64%
112835	Thorium-228	1968	0.915	pci/g	J	0.915	42.85%
110331	Thorium-228	1964	0.911	pci/g	-	0.911	41.07%
110571	Thorium-228	1977	0.91	pci/g	-	0.91	39.28%
055954	Thorium-228	1468	0.909	pci/g	J	0.909	37.50%
112648	Thorium-228	1964	0.9	pci/g	-	0.9	35.71%
110406	Thorium-228	1978	0.884	pci/g	-	0.884	33.92%
112893	Thorium-228	1970	0.88	pci/g	-	0.88	32.14%
055956	Thorium-228	1469	0.877	pci/g	J	0.877	30.35%
110339	Thorium-228	1969	0.876	pci/g	-	0.876	28.57%
055968	Thorium-228	1471	0.874	pci/g	-	0.874	26.78%
110392	Thorium-228	1968	0.867	pci/g	-	0.867	25.00%
110365	Thorium-228	SF-SS-19	0.863	pci/g	-	0.863	23.21%
110369	Thorium-228	SF-SS-19	0.853	pci/g	-	0.853	21.42%
110396	Thorium-228	1968	0.85	pci/g	-	0.85	17.85%
110389	Thorium-228	1975	0.85	pci/g	-	0.85	17.85%
055943	Thorium-228	1466	0.824	pci/g	J	0.824	16.07%
110340	Thorium-228	11188	0.823	pci/g	-	0.823	14.28%
110287	Thorium-228	SF-SS-18	0.815	pci/g	-	0.815	12.50%
110351	Thorium-228	1965	0.77	pci/g	-	0.77	8.92%
112690	Thorium-228	1970	0.77	pci/g	-	0.77	8.92%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
112737	Thorium-228	1965	0.75	pci/g	J	0.75	7.14%
112696	Thorium-228	1967	0.74	pci/g	-	0.74	5.35%
110362	Thorium-228	1967	0.731	pci/g	-	0.731	3.57%
110324	Thorium-228	1971	0.684	pci/g	-	0.684	1.78%
110338	Thorium-228	1969	0.658	pci/g	-	0.658	0.00%

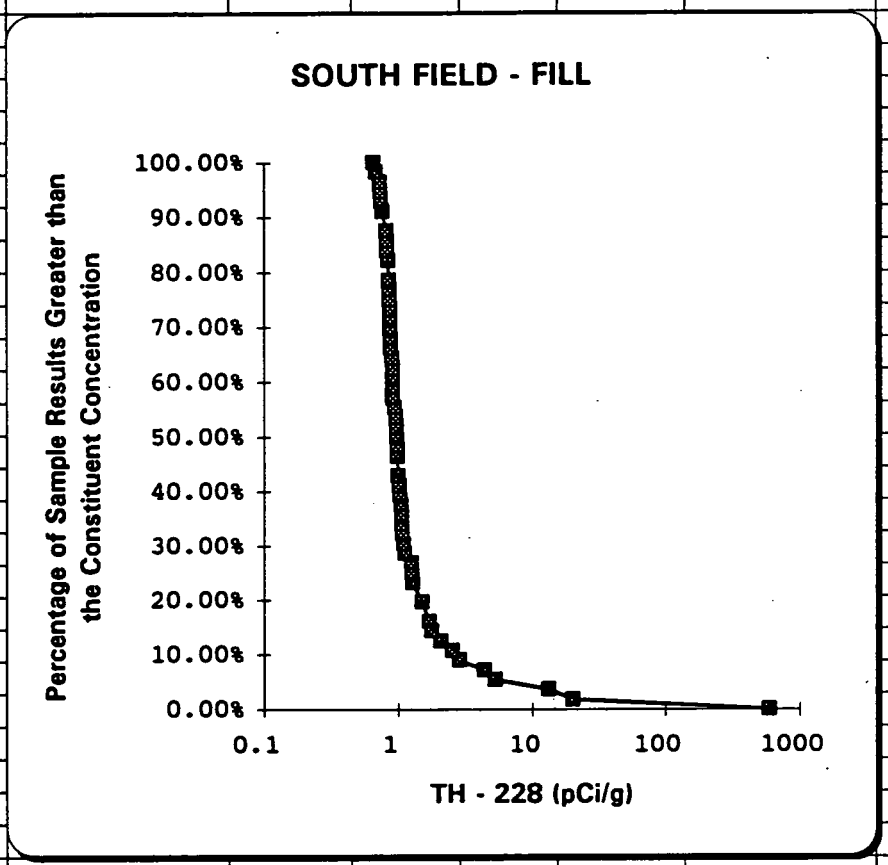

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
113725	Thorium-230		51.6	pci/g	-	51.6	100.00%
113724	Thorium-230		37.6	pci/g	-	37.6	98.21%
110317	Thorium-230		13.8	pci/g	-	13.8	96.42%
110355	Thorium-230	1966	12.1	pci/g	-	12.1	94.64%
055900	Thorium-230	1455	10.3	pci/g	J	10.3	92.85%
113105	Thorium-230		6.27	pci/g	J	6.27	91.07%
047019	Thorium-230	1433	5.86	pci/g	J	5.86	89.28%
110405	Thorium-230	1966	4.65	pci/g	-	4.65	87.50%
055930	Thorium-230	1463	4.39	pci/g	J	4.39	85.71%
112696	Thorium-230	1967	4.35	pci/g	-	4.35	83.92%
110584	Thorium-230	1972	4.18	pci/g	-	4.18	82.14%
055926	Thorium-230	1461	4.12	pci/g	J	4.12	80.35%
110389	Thorium-230	1975	4.06	pci/g	-	4.06	78.57%
110385	Thorium-230	1975	3.52	pci/g	-	3.52	76.78%
055928	Thorium-230	1462	3.33	pci/g	J	3.33	75.00%
110413	Thorium-230	11186	3.19	pci/g	-	3.19	73.21%
055913	Thorium-230	1458	3.18	pci/g	J	3.18	71.42%
110415	Thorium-230	11187	3.01	pci/g	-	3.01	69.64%
055970	Thorium-230	1472	2.86	pci/g	-	2.86	67.85%
112737	Thorium-230	1965	2.81	pci/g	J	2.81	66.07%
112520	Thorium-230	11187	2.61	pci/g	-	2.61	64.28%
110365	Thorium-230	SF-SS-19	2.33	pci/g	-	2.33	62.50%
110321	Thorium-230		2.22	pci/g	-	2.22	60.71%
110372	Thorium-230	1970	2.21	pci/g	-	2.21	58.92%
110343	Thorium-230	SF-SS-16	2.06	pci/g	-	2.06	57.14%
110392	Thorium-230	1968	1.98	pci/g	-	1.98	55.35%
055966	Thorium-230	1470	1.94	pci/g	-	1.94	53.57%
110396	Thorium-230	1968	1.93	pci/g	-	1.93	50.00%
110369	Thorium-230	SF-SS-19	1.93	pci/g	-	1.93	50.00%
110304	Thorium-230	1977	1.92	pci/g	-	1.92	48.21%
110335	Thorium-230	1978	1.81	pci/g	-	1.81	46.42%
112648	Thorium-230	1964	1.77	pci/g	-	1.77	44.64%
055917	Thorium-230	1460	1.73	pci/g	J	1.73	42.85%
110340	Thorium-230	11188	1.7	pci/g	-	1.7	39.28%
055952	Thorium-230	1467	1.7	pci/g	J	1.7	39.28%
055954	Thorium-230	1468	1.61	pci/g	J	1.61	37.50%
055915	Thorium-230	1459	1.56	pci/g	J	1.56	35.71%
112690	Thorium-230	1970	1.55	pci/g	-	1.55	33.92%
110287	Thorium-230	SF-SS-18	1.53	pci/g	-	1.53	32.14%
110327	Thorium-230	1971	1.52	pci/g	-	1.52	30.35%
110547	Thorium-230	11188	1.46	pci/g	-	1.46	26.78%
055939	Thorium-230	1464	1.46	pci/g	J	1.46	26.78%
110571	Thorium-230	1977	1.38	pci/g	-	1.38	25.00%
055902	Thorium-230	1456	1.37	pci/g	J	1.37	23.21%
110331	Thorium-230	1964	1.35	pci/g	-	1.35	21.42%
112893	Thorium-230	1970	1.32	pci/g	-	1.32	19.64%
110339	Thorium-230	1969	1.31	pci/g	-	1.31	16.07%
110406	Thorium-230	1978	1.31	pci/g	-	1.31	16.07%
055943	Thorium-230	1466	1.3	pci/g	J	1.3	12.50%
055941	Thorium-230	1465	1.3	pci/g	J	1.3	12.50%
112835	Thorium-230	1968	1.25	pci/g	J	1.25	10.71%
055968	Thorium-230	1471	1.22	pci/g	-	1.22	8.92%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
055956	Thorium-230	1469	1.2	pci/g	J	1.2	7.14%
110338	Thorium-230	1969	1.07	pci/g	-	1.07	5.35%
110362	Thorium-230	1967	1.04	pci/g	-	1.04	3.57%
110324	Thorium-230	1971	0.158	pci/g	-	0.158	1.78%
110351	Thorium-230	1965	0.117	pci/g	-	0.117	0.00%

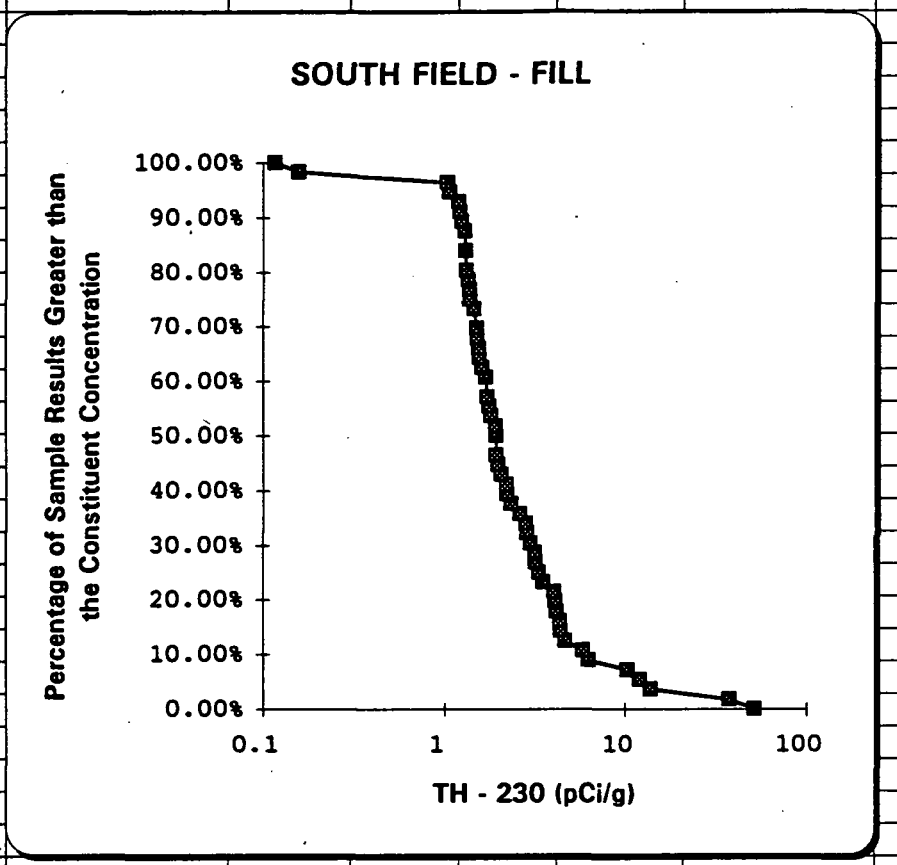

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
113725	Thorium-232		600	pci/g	-	600	100.00%
047019	Thorium-232	1433	17.5	pci/g	J	17.5	98.21%
113724	Thorium-232		12.9	pci/g	-	12.9	96.42%
110355	Thorium-232	1966	3.99	pci/g	-	3.99	94.64%
113105	Thorium-232		3.18	pci/g	J	3.18	92.85%
110405	Thorium-232	1966	2.86	pci/g	-	2.86	91.07%
055913	Thorium-232	1458	1.74	pci/g	-	1.74	89.28%
110415	Thorium-232	11187	1.52	pci/g	-	1.52	87.50%
110321	Thorium-232		1.42	pci/g	-	1.42	85.71%
055915	Thorium-232	1459	1.31	pci/g	-	1.31	83.92%
112520	Thorium-232	11187	1.29	pci/g	-	1.29	80.35%
055900	Thorium-232	1455	1.29	pci/g	-	1.29	80.35%
110317	Thorium-232		1.2	pci/g	-	1.2	78.57%
055966	Thorium-232	1470	1.08	pci/g	-	1.08	76.78%
110392	Thorium-232	1968	1.07	pci/g	-	1.07	75.00%
055926	Thorium-232	1461	1.05	pci/g	-	1.05	71.42%
055928	Thorium-232	1462	1.05	pci/g	-	1.05	71.42%
055902	Thorium-232	1456	1.03	pci/g	-	1.03	69.64%
110406	Thorium-232	1978	1	pci/g	-	1	66.07%
110584	Thorium-232	1972	1	pci/g	-	1	66.07%
110547	Thorium-232	11188	0.975	pci/g	-	0.975	64.28%
055941	Thorium-232	1465	0.969	pci/g	-	0.969	62.50%
112835	Thorium-232	1968	0.967	pci/g	J	0.967	60.71%
055917	Thorium-232	1460	0.959	pci/g	-	0.959	58.92%
110339	Thorium-232	1969	0.952	pci/g	-	0.952	57.14%
110413	Thorium-232	11186	0.951	pci/g	-	0.951	55.35%
110362	Thorium-232	1967	0.938	pci/g	-	0.938	53.57%
112893	Thorium-232	1970	0.93	pci/g	-	0.93	51.78%
110287	Thorium-232	SF-SS-18	0.929	pci/g	-	0.929	50.00%
110340	Thorium-232	11188	0.927	pci/g	-	0.927	48.21%
110372	Thorium-232	1970	0.922	pci/g	-	0.922	46.42%
112690	Thorium-232	1970	0.92	pci/g	-	0.92	44.64%
110335	Thorium-232	1978	0.903	pci/g	-	0.903	42.85%
055970	Thorium-232	1472	0.895	pci/g	-	0.895	41.07%
110327	Thorium-232	1971	0.892	pci/g	-	0.892	39.28%
110304	Thorium-232	1977	0.859	pci/g	-	0.859	37.50%
055968	Thorium-232	1471	0.85	pci/g	-	0.85	35.71%
110331	Thorium-232	1964	0.849	pci/g	-	0.849	33.92%
110396	Thorium-232	1968	0.84	pci/g	-	0.84	28.57%
112696	Thorium-232	1967	0.84	pci/g	-	0.84	28.57%
055943	Thorium-232	1466	0.84	pci/g	-	0.84	28.57%
110369	Thorium-232	SF-SS-19	0.839	pci/g	-	0.839	26.78%
110343	Thorium-232	SF-SS-16	0.835	pci/g	-	0.835	25.00%
055939	Thorium-232	1464	0.833	pci/g	-	0.833	23.21%
112737	Thorium-232	1965	0.83	pci/g	J	0.83	21.42%
110351	Thorium-232	1965	0.825	pci/g	-	0.825	19.64%
110571	Thorium-232	1977	0.82	pci/g	-	0.82	17.85%
110324	Thorium-232	1971	0.813	pci/g	-	0.813	16.07%
110389	Thorium-232	1975	0.78	pci/g	-	0.78	14.28%
055954	Thorium-232	1468	0.773	pci/g	J	0.773	12.50%
112648	Thorium-232	1964	0.76	pci/g	-	0.76	10.71%
055930	Thorium-232	1463	0.734	pci/g	-	0.734	8.92%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
110338	Thorium-232	1969	0.728	pci/g	-	0.728	7.14%
055952	Thorium-232	1467	0.703	pci/g	J	0.703	5.35%
110365	Thorium-232	SF-SS-19	0.674	pci/g	-	0.674	3.57%
055956	Thorium-232	1469	0.6	pci/g	UJ	0.3	1.78%
110385	Thorium-232	1975	0.19	pci/g	-	0.19	0.00%

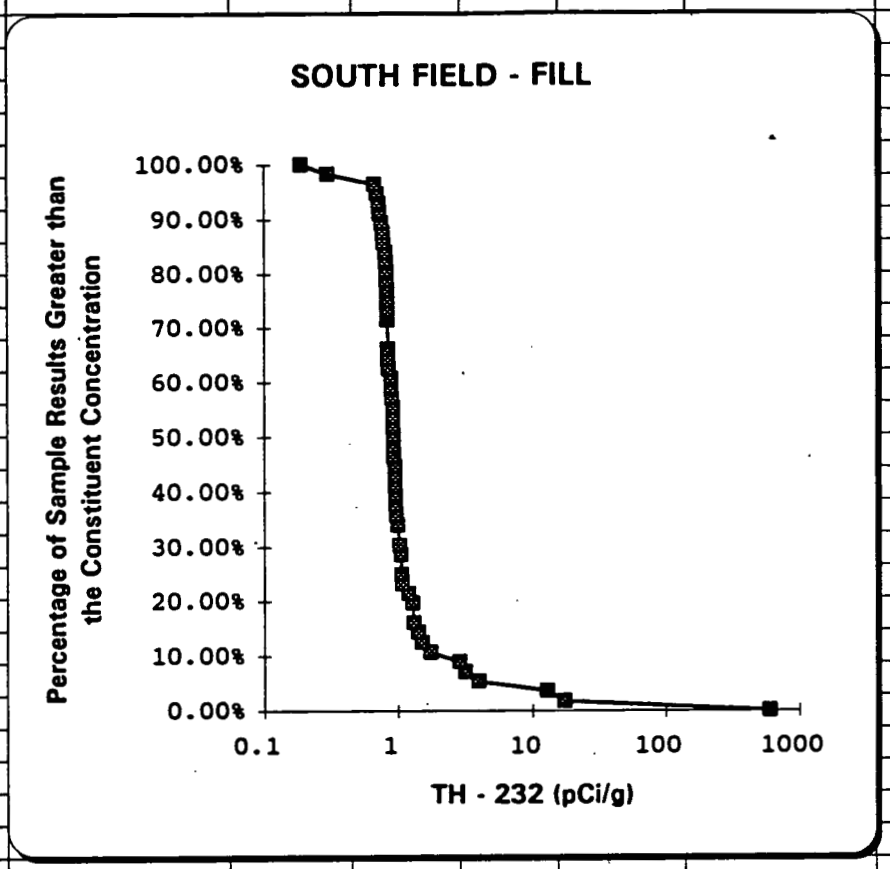

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
113722	Uranium, Total		1170	mg/kg	-	1170	100.00%
113724	Uranium, Total		725	mg/kg	-	725	98.38%
055917	Uranium, Total	1460	394	mg/kg	J	394	96.77%
112520	Uranium, Total	11187	297	mg/kg	-	297	95.16%
055915	Uranium, Total	1459	228	mg/kg	J	228	93.54%
113105	Uranium, Total		165	mg/kg	-	165	91.93%
047019	Uranium, Total	1433	128	mg/kg	-	128	90.32%
055930	Uranium, Total	1463	121	mg/kg	-	121	88.70%
110415	Uranium, Total	11187	91.5	mg/kg	-	91.5	87.09%
055913	Uranium, Total	1458	76.1	mg/kg	J	76.1	85.48%
110321	Uranium, Total		50.6	mg/kg	-	50.6	83.87%
110351	Uranium, Total	1965	49	mg/kg	-	49	82.25%
110584	Uranium, Total	1972	47.6	mg/kg	-	47.6	80.64%
055900	Uranium, Total	1455	42.6	mg/kg	J	42.6	79.03%
110355	Uranium, Total	1966	38.1	mg/kg	-	38.1	77.41%
110290	Uranium, Total	SF-SS-20	36.4	mg/kg	-	36.4	75.80%
110382	Uranium, Total	1972	36.2	mg/kg	-	36.2	74.19%
110317	Uranium, Total		36	mg/kg	-	36	72.58%
110571	Uranium, Total	1977	35.9	mg/kg	-	35.9	70.96%
110405	Uranium, Total	1966	31.72	mg/kg	-	31.72	69.35%
110392	Uranium, Total	1968	31.2	mg/kg	-	31.2	67.74%
110396	Uranium, Total	1968	30	mg/kg	-	30	66.12%
110389	Uranium, Total	1975	29.7	mg/kg	J	29.7	64.51%
110413	Uranium, Total	11186	29	mg/kg	-	29	62.90%
110297	Uranium, Total	SF-SS-17	28.4	mg/kg	-	28.4	61.29%
110378	Uranium, Total	1972	28.3	mg/kg	-	28.3	59.67%
055902	Uranium, Total	1456	27.7	mg/kg	J	27.7	58.06%
110372	Uranium, Total	1970	27.4	mg/kg	-	27.4	56.45%
110324	Uranium, Total	1971	25.5	mg/kg	-	25.5	54.83%
110307	Uranium, Total	SF-SS-21	24.5	mg/kg	-	24.5	53.22%
110385	Uranium, Total	1975	23.8	mg/kg	-	23.8	51.61%
112737	Uranium, Total	1965	20.6	mg/kg	-	20.6	50.00%
112690	Uranium, Total	1970	20.4	mg/kg	J	20.4	48.38%
055928	Uranium, Total	1462	19.4	mg/kg	J	19.4	46.77%
055926	Uranium, Total	1461	19.1	mg/kg	J	19.1	45.16%
110304	Uranium, Total	1977	19	mg/kg	-	19	43.54%
110335	Uranium, Total	1978	18.8	mg/kg	-	18.8	41.93%
110287	Uranium, Total	SF-SS-18	17.2	mg/kg	-	17.2	40.32%
113725	Uranium, Total		34	mg/kg	U	17	38.70%
110338	Uranium, Total	1969	16.7	mg/kg	-	16.7	33.87%
110327	Uranium, Total	1971	16.7	mg/kg	-	16.7	33.87%
112648	Uranium, Total	1964	16.7	mg/kg	J	16.7	33.87%
110365	Uranium, Total	SF-SS-19	16.3	mg/kg	-	16.3	32.25%
112893	Uranium, Total	1970	16.2	mg/kg	J	16.2	30.64%
112696	Uranium, Total	1967	15.3	mg/kg	J	15.3	29.03%
112835	Uranium, Total	1968	14.9	mg/kg	-	14.9	27.41%
112859	Uranium, Total	1966	13.9	mg/kg	-	13.9	25.80%
110358	Uranium, Total	1967	12.5	mg/kg	-	12.5	22.58%
110369	Uranium, Total	SF-SS-19	12.5	mg/kg	-	12.5	22.58%
055954	Uranium, Total	1468	12.26	mg/kg	J	12.26	20.96%
055966	Uranium, Total	1470	11.6	mg/kg	-	11.6	19.35%
055952	Uranium, Total	1467	11.38	mg/kg	-	11.38	17.74%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
055956	Uranium, Total	1469	10.89	mg/kg	J	10.89	16.12%
110406	Uranium, Total	1978	10.7	mg/kg	-	10.7	14.51%
110331	Uranium, Total	1964	10.5	mg/kg	-	10.5	12.90%
110340	Uranium, Total	11188	10.4	mg/kg	-	10.4	11.29%
055970	Uranium, Total	1472	10.2	mg/kg	-	10.2	9.67%
110339	Uranium, Total	1969	9.85	mg/kg	-	9.85	8.06%
110362	Uranium, Total	1967	7.34	mg/kg	-	7.34	6.45%
055968	Uranium, Total	1471	6.89	mg/kg	-	6.89	4.83%
110547	Uranium, Total	11188	6.68	mg/kg	J	6.68	3.22%
112536	Uranium, Total	1971	2.58	mg/kg	J	2.58	1.61%
110343	Uranium, Total	SF-SS-16	1.86	mg/kg	-	1.86	0.00%

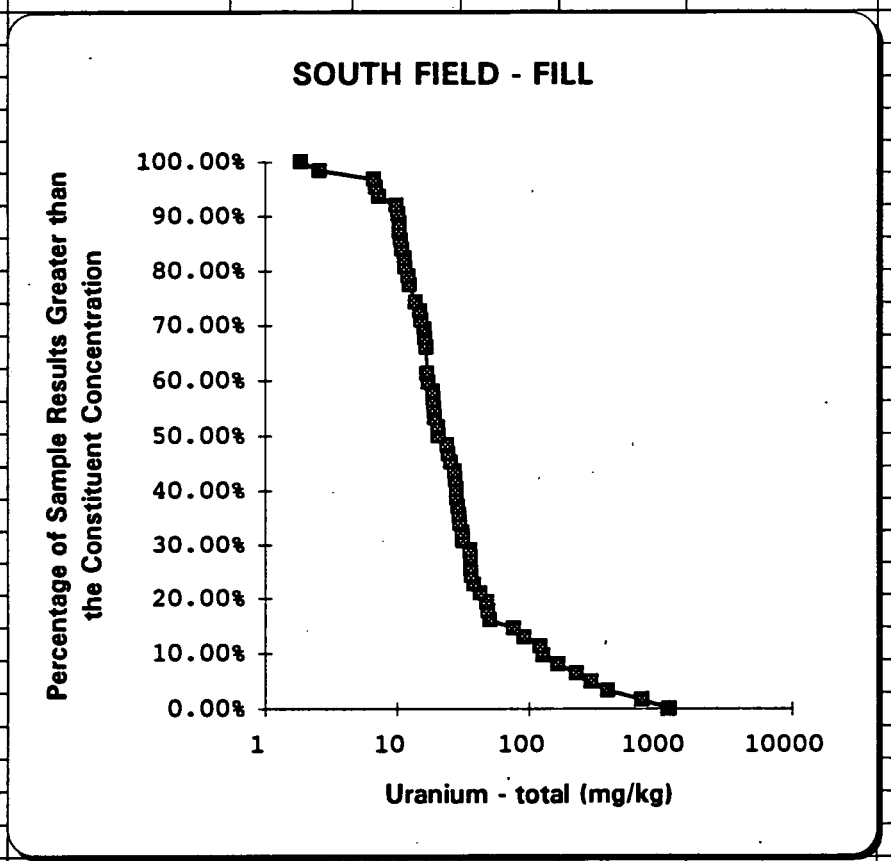

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
113722	Uranium-234		378	pci/g	N	378	100.00%
113724	Uranium-234		228	pci/g	-	228	98.43%
055917	Uranium-234	1460	119	pci/g	-	119	96.87%
055915	Uranium-234	1459	78.3	pci/g	-	78.3	95.31%
113105	Uranium-234		44.5	pci/g	-	44.5	93.75%
047019	Uranium-234	1433	41.2	pci/g	J	41.2	92.18%
110415	Uranium-234	11187	29.7	pci/g	-	29.7	90.62%
055913	Uranium-234	1458	24.2	pci/g	-	24.2	89.06%
055930	Uranium-234	1463	19.7	pci/g	-	19.7	87.50%
113725	Uranium-234		17.7	pci/g	-	17.7	85.93%
110351	Uranium-234	1965	16.3	pci/g	-	16.3	84.37%
110584	Uranium-234	1972	15.2	pci/g	-	15.2	82.81%
110321	Uranium-234		13.7	pci/g	-	13.7	81.25%
055900	Uranium-234	1455	12.6	pci/g	-	12.6	79.68%
110290	Uranium-234	SF-SS-20	11.56	pci/g	J	11.56	78.12%
110355	Uranium-234	1966	10	pci/g	-	10	76.56%
110389	Uranium-234	1975	9.86	pci/g	-	9.86	75.00%
110392	Uranium-234	1968	9.71	pci/g	-	9.71	73.43%
110571	Uranium-234	1977	9.37	pci/g	-	9.37	71.87%
055902	Uranium-234	1456	9.36	pci/g	-	9.36	70.31%
110413	Uranium-234	11186	9.22	pci/g	-	9.22	68.75%
110396	Uranium-234	1968	9.13	pci/g	-	9.13	67.18%
110405	Uranium-234	1966	8.05	pci/g	-	8.05	65.62%
110317	Uranium-234		8.01	pci/g	-	8.01	64.06%
110307	Uranium-234	SF-SS-21	7.93	pci/g	J	7.93	62.50%
110382	Uranium-234	1972	7.48	pci/g	-	7.48	60.93%
110372	Uranium-234	1970	7.44	pci/g	-	7.44	59.37%
110385	Uranium-234	1975	6.62	pci/g	-	6.62	57.81%
110343	Uranium-234	SF-SS-16	6.44	pci/g	-	6.44	56.25%
110378	Uranium-234	1972	6.18	pci/g	-	6.18	54.68%
110324	Uranium-234	1971	6.04	pci/g	-	6.04	53.12%
110327	Uranium-234	1971	5.05	pci/g	-	5.05	51.56%
055928	Uranium-234	1462	5.04	pci/g	-	5.04	50.00%
110335	Uranium-234	1978	4.98	pci/g	-	4.98	48.43%
110297	Uranium-234	SF-SS-17	4.94	pci/g	J	4.94	46.87%
055926	Uranium-234	1461	4.73	pci/g	-	4.73	45.31%
110358	Uranium-234	1967	4.46	pci/g	-	4.46	43.75%
110365	Uranium-234	SF-SS-19	4.26	pci/g	-	4.26	42.18%
055952	Uranium-234	1467	3.82	pci/g	J	3.82	40.62%
055966	Uranium-234	1470	3.79	pci/g	-	3.79	39.06%
112690	Uranium-234	1970	3.68	pci/g	-	3.68	37.50%
110338	Uranium-234	1969	3.58	pci/g	-	3.58	35.93%
055970	Uranium-234	1472	3.46	pci/g	-	3.46	34.37%
110331	Uranium-234	1964	3.43	pci/g	-	3.43	32.81%
055954	Uranium-234	1468	3.42	pci/g	J	3.42	31.25%
110304	Uranium-234	1977	3.32	pci/g	-	3.32	29.68%
110339	Uranium-234	1969	3.24	pci/g	-	3.24	28.12%
110369	Uranium-234	SF-SS-19	3.22	pci/g	-	3.22	26.56%
110340	Uranium-234	11188	3.2	pci/g	-	3.2	25.00%
110406	Uranium-234	1978	3.19	pci/g	-	3.19	23.43%
112737	Uranium-234	1965	3.07	pci/g	-	3.07	21.87%
110287	Uranium-234	SF-SS-18	2.73	pci/g	J	2.73	20.31%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
112648	Uranium-234	1964	2.59	pci/g	-	2.59	17.18%
055956	Uranium-234	1469	2.59	pci/g	J	2.59	17.18%
112696	Uranium-234	1967	2.5	pci/g	-	2.5	15.62%
110362	Uranium-234	1967	2.35	pci/g	-	2.35	14.06%
112859	Uranium-234	1966	1.78	pci/g	-	1.78	12.50%
110547	Uranium-234	11188	1.75	pci/g	-	1.75	10.93%
055941	Uranium-234	1465	1.68	pci/g	-	1.68	9.37%
055968	Uranium-234	1471	1.52	pci/g	-	1.52	7.81%
112835	Uranium-234	1968	1.36	pci/g	-	1.36	6.25%
055943	Uranium-234	1466	1.13	pci/g	-	1.13	4.68%
055939	Uranium-234	1464	1.08	pci/g	-	1.08	3.12%
112536	Uranium-234	1971	1.07	pci/g	-	1.07	1.56%
112893	Uranium-234	1970	1.06	pci/g	-	1.06	0.00%

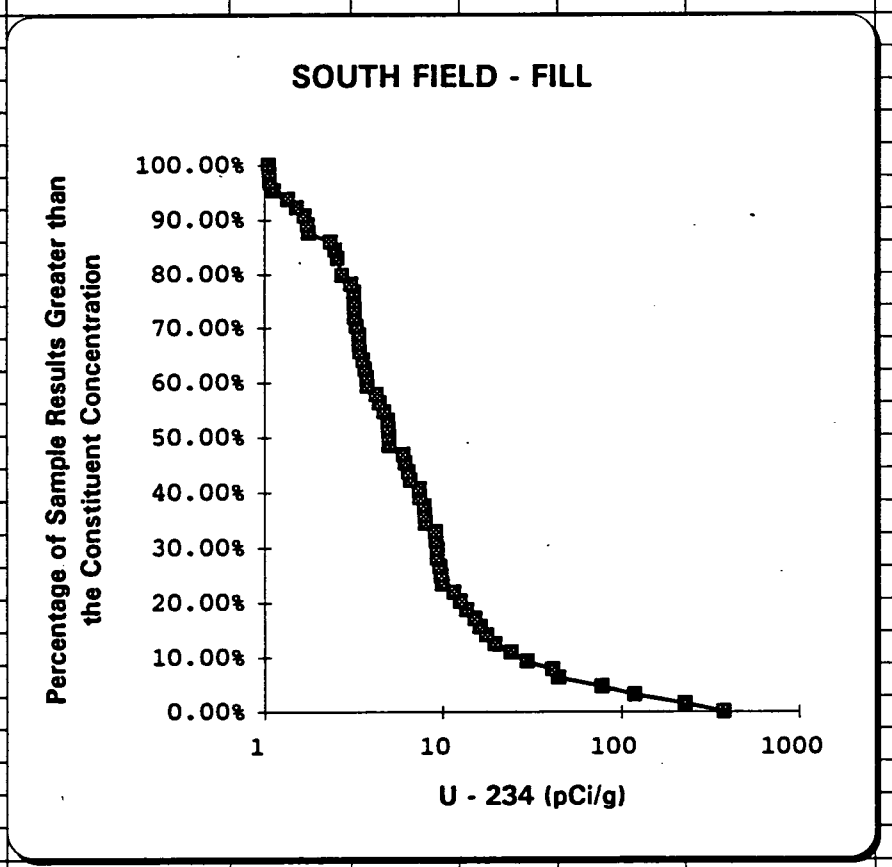

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
055917	Uranium-235/236	1460	20.6	pci/g	-	20.6	100.00%
113722	Uranium-235/236		19.7	pci/g	N	19.7	98.43%
113724	Uranium-235/236		11.9	pci/g	-	11.9	96.87%
055915	Uranium-235/236	1459	4.05	pci/g	-	4.05	95.31%
113105	Uranium-235/236		2.62	pci/g	-	2.62	93.75%
055930	Uranium-235/236	1463	2.55	pci/g	J	2.55	92.18%
047019	Uranium-235/236	1433	2.24	pci/g	J	2.24	90.62%
055913	Uranium-235/236	1458	1.58	pci/g	-	1.58	89.06%
110415	Uranium-235/236	11187	1.45	pci/g	-	1.45	87.50%
113725	Uranium-235/236		1.25	pci/g	-	1.25	85.93%
110351	Uranium-235/236	1965	0.887	pci/g	-	0.887	84.37%
110584	Uranium-235/236	1972	0.83	pci/g	-	0.83	82.81%
110321	Uranium-235/236		0.771	pci/g	-	0.771	81.25%
055941	Uranium-235/236	1465	0.757	pci/g	J	0.757	79.68%
055900	Uranium-235/236	1455	0.748	pci/g	-	0.748	78.12%
055902	Uranium-235/236	1456	0.665	pci/g	-	0.665	76.56%
110571	Uranium-235/236	1977	0.58	pci/g	J	0.58	75.00%
110355	Uranium-235/236	1966	0.515	pci/g	-	0.515	73.43%
110396	Uranium-235/236	1968	0.474	pci/g	J	0.474	71.87%
110405	Uranium-235/236	1966	0.473	pci/g	J	0.473	70.31%
110290	Uranium-235/236	SF-SS-20	0.47	pci/g	J	0.47	68.75%
110307	Uranium-235/236	SF-SS-21	0.458	pci/g	J	0.458	67.18%
110389	Uranium-235/236	1975	0.44	pci/g	J	0.44	65.62%
110413	Uranium-235/236	11186	0.428	pci/g	J	0.428	64.06%
110385	Uranium-235/236	1975	0.35	pci/g	J	0.35	62.50%
110317	Uranium-235/236		0.346	pci/g	J	0.346	60.93%
110324	Uranium-235/236	1971	0.344	pci/g	-	0.344	59.37%
110372	Uranium-235/236	1970	0.315	pci/g	J	0.315	57.81%
110392	Uranium-235/236	1968	0.303	pci/g	J	0.303	56.25%
055966	Uranium-235/236	1470	0.6	pci/g	U	0.3	40.62%
055968	Uranium-235/236	1471	0.6	pci/g	U	0.3	40.62%
055970	Uranium-235/236	1472	0.6	pci/g	U	0.3	40.62%
055926	Uranium-235/236	1461	0.6	pci/g	UJ	0.3	40.62%
055928	Uranium-235/236	1462	0.6	pci/g	UJ	0.3	40.62%
055939	Uranium-235/236	1464	0.6	pci/g	UJ	0.3	40.62%
055943	Uranium-235/236	1466	0.6	pci/g	UJ	0.3	40.62%
055952	Uranium-235/236	1467	0.6	pci/g	UJ	0.3	40.62%
055954	Uranium-235/236	1468	0.6	pci/g	UJ	0.3	40.62%
055956	Uranium-235/236	1469	0.6	pci/g	UJ	0.3	40.62%
110378	Uranium-235/236	1972	0.299	pci/g	J	0.299	39.06%
110382	Uranium-235/236	1972	0.287	pci/g	-	0.287	37.50%
110343	Uranium-235/236	SF-SS-16	0.285	pci/g	J	0.285	35.93%
110327	Uranium-235/236	1971	0.261	pci/g	J	0.261	34.37%
110297	Uranium-235/236	SF-SS-17	0.258	pci/g	J	0.258	32.81%
110339	Uranium-235/236	1969	0.241	pci/g	-	0.241	31.25%
110340	Uranium-235/236	11188	0.226	pci/g	J	0.226	29.68%
110335	Uranium-235/236	1978	0.21	pci/g	J	0.21	28.12%
110358	Uranium-235/236	1967	0.198	pci/g	J	0.198	26.56%
110338	Uranium-235/236	1969	0.197	pci/g	J	0.197	25.00%
110304	Uranium-235/236	1977	0.17	pci/g	J	0.17	23.43%
110406	Uranium-235/236	1978	0.169	pci/g	J	0.169	21.87%
110365	Uranium-235/236	SF-SS-19	0.166	pci/g	J	0.166	20.31%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
112696	Uranium-235/236	1967	0.16	pci/g	J	0.16	18.75%
110331	Uranium-235/236	1964	0.157	pci/g	J	0.157	17.18%
110369	Uranium-235/236	SF-SS-19	0.15	pci/g	J	0.15	15.62%
110287	Uranium-235/236	SF-SS-18	0.149	pci/g	J	0.149	14.06%
110547	Uranium-235/236	11188	0.146	pci/g	J	0.146	12.50%
112690	Uranium-235/236	1970	0.13	pci/g	J	0.13	10.93%
112737	Uranium-235/236	1965	0.0996	pci/g	J	0.0996	9.37%
112835	Uranium-235/236	1968	0.0753	pci/g	J	0.0753	7.81%
112648	Uranium-235/236	1964	0.07	pci/g	J	0.07	6.25%
112536	Uranium-235/236	1971	0.0565	pci/g	J	0.0565	4.68%
110362	Uranium-235/236	1967	0.052	pci/g	J	0.052	3.12%
112859	Uranium-235/236	1966	0.043	pci/g	J	0.043	1.56%
112893	Uranium-235/236	1970	0.03	pci/g	J	0.03	0.00%

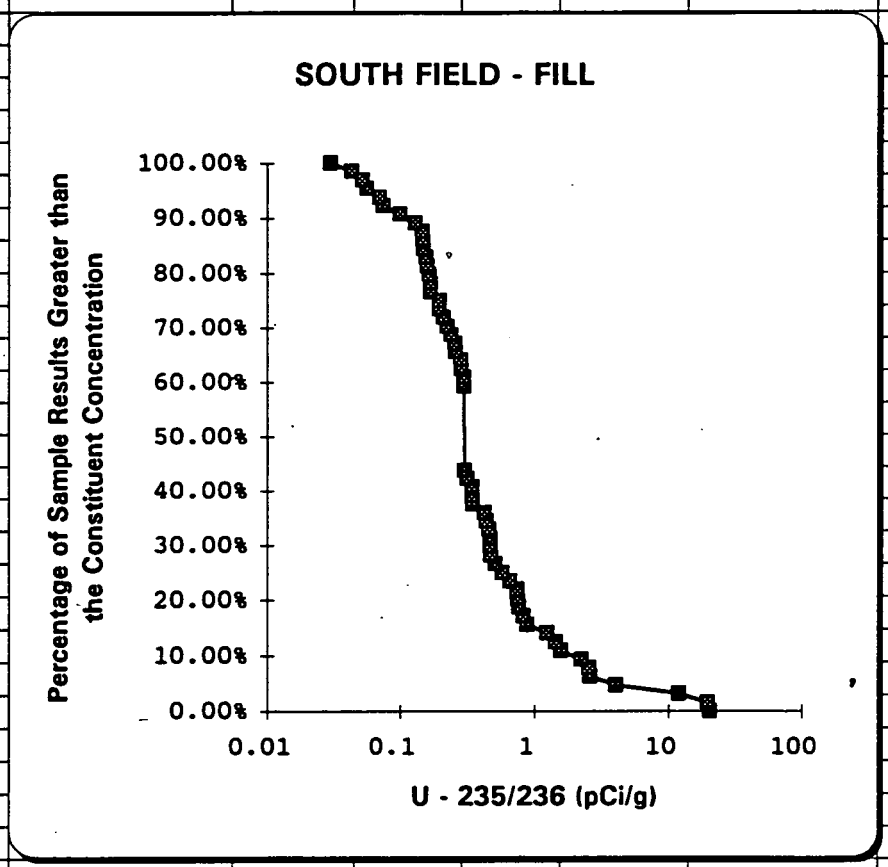

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
113722	Uranium-238		397	pci/g	N	397	100.00%
113724	Uranium-238		241	pci/g	-	241	98.43%
055917	Uranium-238	1460	131	pci/g	-	131	96.87%
055915	Uranium-238	1459	82.7	pci/g	-	82.7	95.31%
055930	Uranium-238	1463	61.4	pci/g	-	61.4	93.75%
113105	Uranium-238		46.8	pci/g	-	46.8	92.18%
047019	Uranium-238	1433	41.3	pci/g	J	41.3	90.62%
110415	Uranium-238	11187	29.3	pci/g	-	29.3	89.06%
055913	Uranium-238	1458	23.7	pci/g	-	23.7	87.50%
113725	Uranium-238		18	pci/g	-	18	85.93%
110351	Uranium-238	1965	16.6	pci/g	-	16.6	84.37%
110584	Uranium-238	1972	15.7	pci/g	-	15.7	82.81%
110321	Uranium-238		15.1	pci/g	-	15.1	81.25%
055900	Uranium-238	1455	14.6	pci/g	-	14.6	79.68%
110290	Uranium-238	SF-SS-20	11.68	pci/g	J	11.68	78.12%
110355	Uranium-238	1966	11.3	pci/g	-	11.3	76.56%
110405	Uranium-238	1966	10.6	pci/g	-	10.6	73.43%
055902	Uranium-238	1456	10.6	pci/g	-	10.6	73.43%
110571	Uranium-238	1977	10.4	pci/g	-	10.4	71.87%
110389	Uranium-238	1975	10.2	pci/g	-	10.2	70.31%
110392	Uranium-238	1968	9.84	pci/g	-	9.84	68.75%
110396	Uranium-238	1968	9.41	pci/g	-	9.41	67.18%
110413	Uranium-238	11186	9.32	pci/g	-	9.32	64.06%
110307	Uranium-238	SF-SS-21	9.32	pci/g	J	9.32	64.06%
110317	Uranium-238		9.06	pci/g	-	9.06	62.50%
110382	Uranium-238	1972	8.09	pci/g	-	8.09	60.93%
110372	Uranium-238	1970	7.72	pci/g	-	7.72	59.37%
110385	Uranium-238	1975	6.92	pci/g	-	6.92	57.81%
110378	Uranium-238	1972	6.88	pci/g	-	6.88	56.25%
110343	Uranium-238	SF-SS-16	6.53	pci/g	-	6.53	54.68%
110324	Uranium-238	1971	6.48	pci/g	-	6.48	53.12%
055928	Uranium-238	1462	6.21	pci/g	-	6.21	51.56%
110297	Uranium-238	SF-SS-17	5.99	pci/g	J	5.99	50.00%
055926	Uranium-238	1461	5.58	pci/g	-	5.58	48.43%
110365	Uranium-238	SF-SS-19	5.46	pci/g	-	5.46	46.87%
110335	Uranium-238	1978	5.35	pci/g	-	5.35	45.31%
110327	Uranium-238	1971	4.84	pci/g	-	4.84	43.75%
110358	Uranium-238	1967	4.41	pci/g	-	4.41	42.18%
110304	Uranium-238	1977	4.15	pci/g	-	4.15	40.62%
055952	Uranium-238	1467	4.14	pci/g	J	4.14	39.06%
055966	Uranium-238	1470	4.04	pci/g	-	4.04	37.50%
110369	Uranium-238	SF-SS-19	3.99	pci/g	-	3.99	35.93%
110338	Uranium-238	1969	3.79	pci/g	-	3.79	32.81%
112690	Uranium-238	1970	3.79	pci/g	-	3.79	32.81%
110339	Uranium-238	1969	3.7	pci/g	-	3.7	31.25%
055970	Uranium-238	1472	3.64	pci/g	-	3.64	29.68%
055954	Uranium-238	1468	3.56	pci/g	J	3.56	28.12%
110340	Uranium-238	11188	3.54	pci/g	-	3.54	26.56%
110331	Uranium-238	1964	3.47	pci/g	-	3.47	25.00%
110406	Uranium-238	1978	3.46	pci/g	-	3.46	23.43%
055956	Uranium-238	1469	3.18	pci/g	J	3.18	21.87%
112737	Uranium-238	1965	3.04	pci/g	-	3.04	20.31%

TABLE A.5-15
SOUTH FIELD - FILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results	Percentile
112648	Uranium-238	1964	2.91	pci/g	-	2.91	18.75%
110287	Uranium-238	SF-SS-18	2.87	pci/g	J	2.87	17.18%
112696	Uranium-238	1967	2.56	pci/g	-	2.56	15.62%
110362	Uranium-238	1967	2.36	pci/g	-	2.36	14.06%
055968	Uranium-238	1471	2.12	pci/g	-	2.12	12.50%
112859	Uranium-238	1966	1.9	pci/g	-	1.9	10.93%
110547	Uranium-238	11188	1.86	pci/g	-	1.86	9.37%
112835	Uranium-238	1968	1.71	pci/g	-	1.71	7.81%
055939	Uranium-238	1464	1.37	pci/g	-	1.37	6.25%
112536	Uranium-238	1971	1.34	pci/g	-	1.34	4.68%
055943	Uranium-238	1466	1.26	pci/g	-	1.26	3.12%
055941	Uranium-238	1465	1.09	pci/g	-	1.09	1.56%
112893	Uranium-238	1970	1.03	pci/g	-	1.03	0.00%

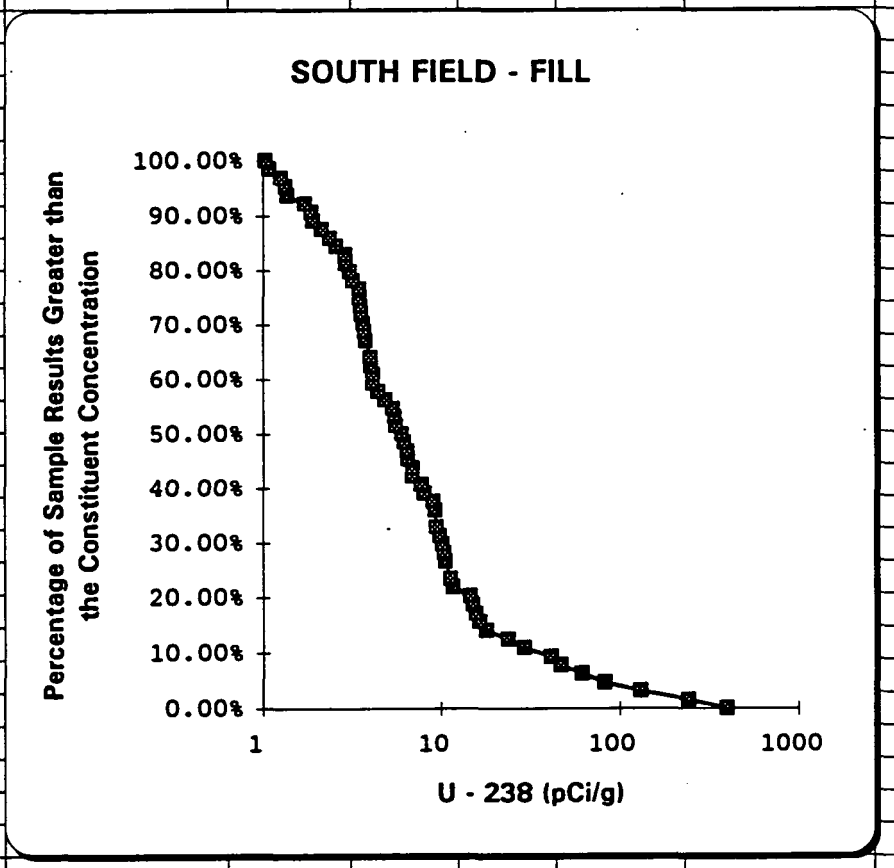

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
112545	Aroclor-1254	1975	41	ug/kg	-	41
112507	Aroclor-1254	11186	42	ug/kg	U	21
112559	Aroclor-1254	1969	42	ug/kg	U	21
110579	Aroclor-1254	1977	41	ug/kg	U	20.5
112494	Aroclor-1254	1972	40	ug/kg	U	20
112731	Aroclor-1254	1967	40	ug/kg	U	20
112507	Aroclor-1260	11186	42	ug/kg	U	21
112559	Aroclor-1260	1969	42	ug/kg	U	21
110579	Aroclor-1260	1977	41	ug/kg	U	20.5
112545	Aroclor-1260	1975	41	ug/kg	U	20.5
112494	Aroclor-1260	1972	40	ug/kg	U	20
112731	Aroclor-1260	1967	40	ug/kg	U	20
112507	Dieldrin	11186	4.2	ug/kg	U	2.1
112559	Dieldrin	1969	4.2	ug/kg	U	2.1
110579	Dieldrin	1977	4.1	ug/kg	U	2.05
112545	Dieldrin	1975	4.1	ug/kg	U	2.05
112494	Dieldrin	1972	4	ug/kg	U	2
112731	Dieldrin	1967	4	ug/kg	U	2

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112545	Arsenic	1975	11.9	mg/kg	-	11.9	100.00%
112507	Arsenic	11186	8.3	mg/kg	-	8.3	80.00%
112559	Arsenic	1969	5.1	mg/kg	-	5.1	60.00%
112494	Arsenic	1972	4	mg/kg	-	4	40.00%
112731	Arsenic	1967	2.5	mg/kg	-	2.5	20.00%
110579	Arsenic	1977	1.5	mg/kg	-	1.5	0.00%

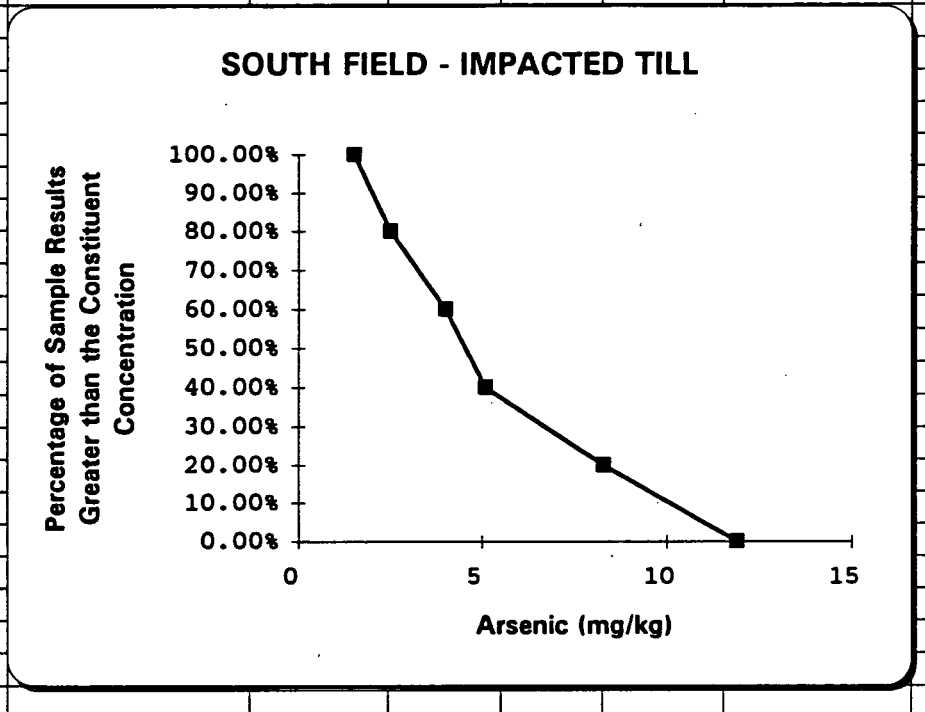

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112507	Benzo(a)anthracene	11186	430	ug/kg	U	215	100.00%
112559	Benzo(a)anthracene	1969	420	ug/kg	U	210	80.00%
112494	Benzo(a)anthracene	1972	410	ug/kg	U	205	60.00%
112545	Benzo(a)anthracene	1975	400	ug/kg	U	200	20.00%
112731	Benzo(a)anthracene	1967	400	ug/kg	U	200	20.00%
110579	Benzo(a)anthracene	1977	380	ug/kg	U	190	0.00%

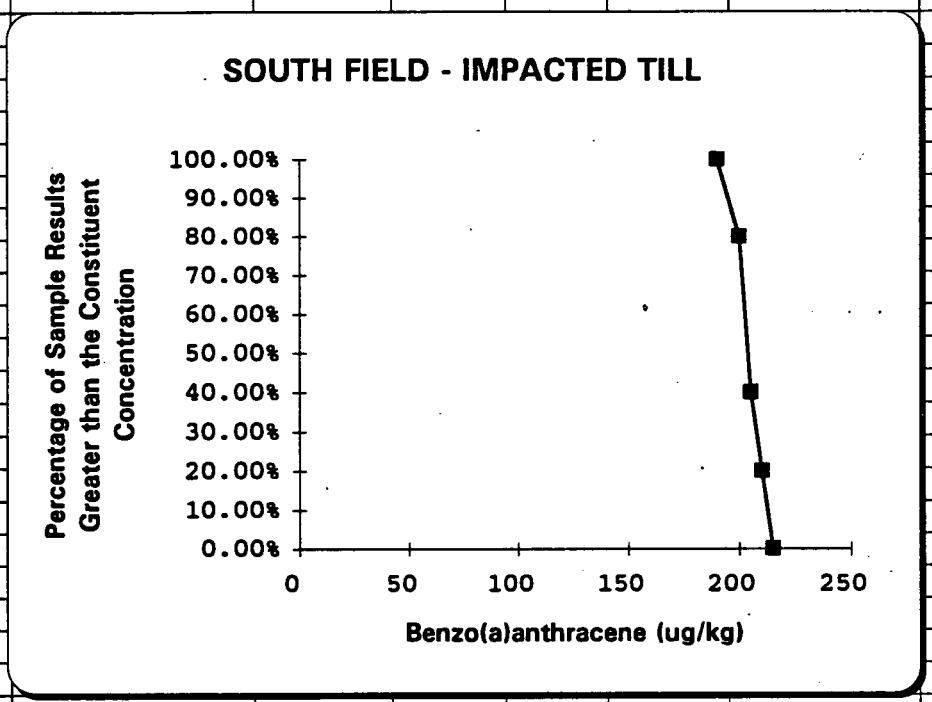

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112507	Benzo(a)pyrene	11186	430	ug/kg	U	215	100.00%
112559	Benzo(a)pyrene	1969	420	ug/kg	U	210	80.00%
112494	Benzo(a)pyrene	1972	410	ug/kg	U	205	60.00%
112545	Benzo(a)pyrene	1975	400	ug/kg	U	200	20.00%
112731	Benzo(a)pyrene	1967	400	ug/kg	U	200	20.00%
110579	Benzo(a)pyrene	1977	380	ug/kg	U	190	0.00%

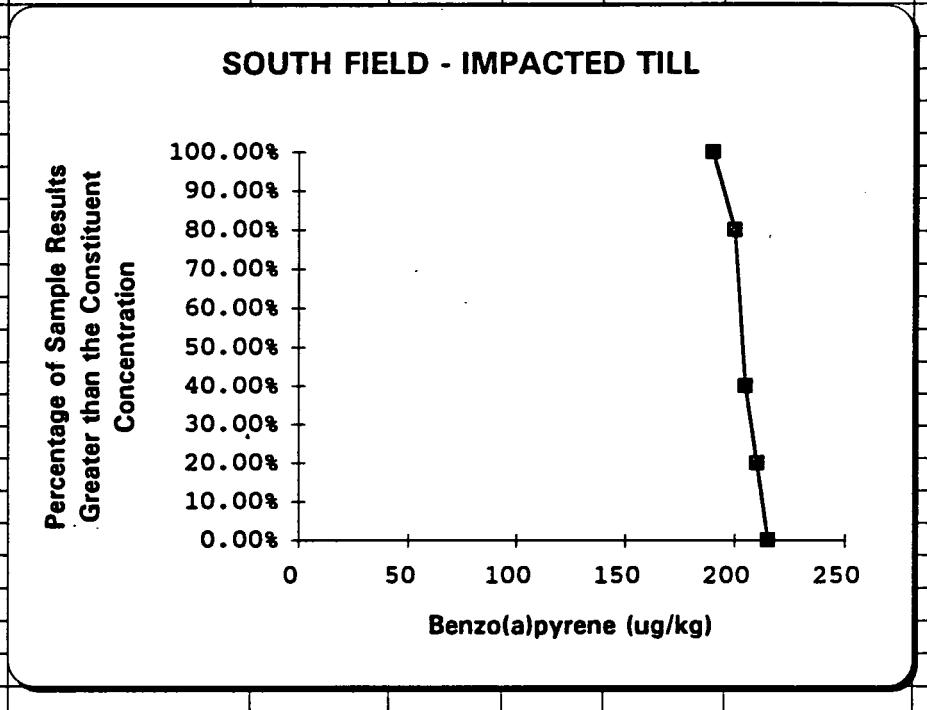

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112507	Benzo(b)fluoranthene	11186	430	ug/kg	U	215	100.00%
112559	Benzo(b)fluoranthene	1969	420	ug/kg	U	210	80.00%
112494	Benzo(b)fluoranthene	1972	410	ug/kg	U	205	60.00%
112545	Benzo(b)fluoranthene	1975	400	ug/kg	U	200	20.00%
112731	Benzo(b)fluoranthene	1967	400	ug/kg	U	200	20.00%
110579	Benzo(b)fluoranthene	1977	380	ug/kg	U	190	0.00%

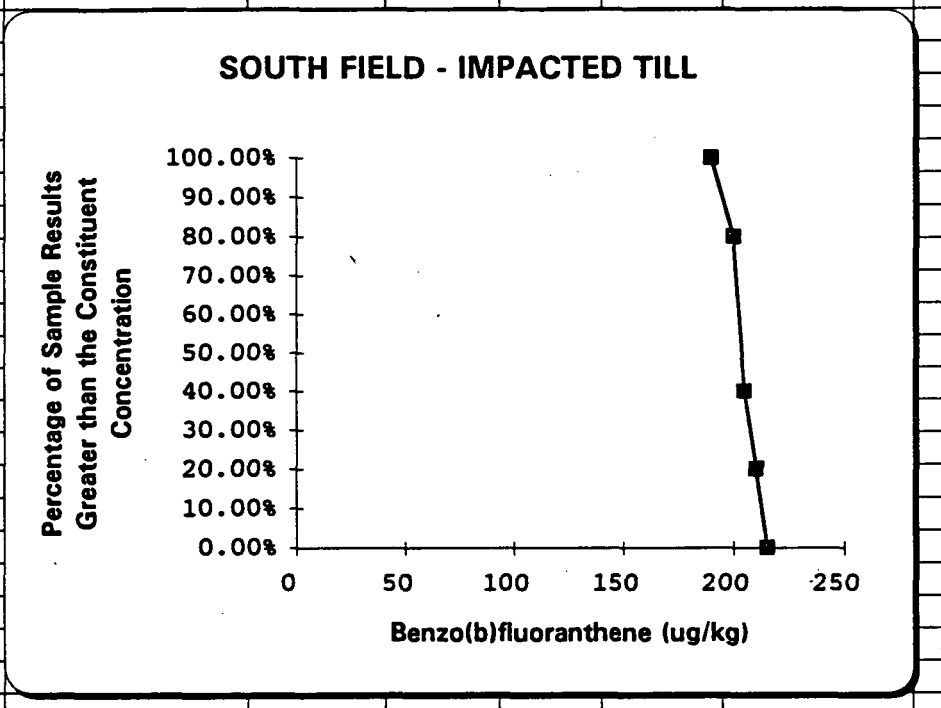

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112507	Benzo(k)fluoranthene	11186	430	ug/kg	U	215	100.00%
112559	Benzo(k)fluoranthene	1969	420	ug/kg	U	210	80.00%
112494	Benzo(k)fluoranthene	1972	410	ug/kg	U	205	60.00%
112545	Benzo(k)fluoranthene	1975	400	ug/kg	U	200	20.00%
112731	Benzo(k)fluoranthene	1967	400	ug/kg	U	200	20.00%
110579	Benzo(k)fluoranthene	1977	380	ug/kg	U	190	0.00%

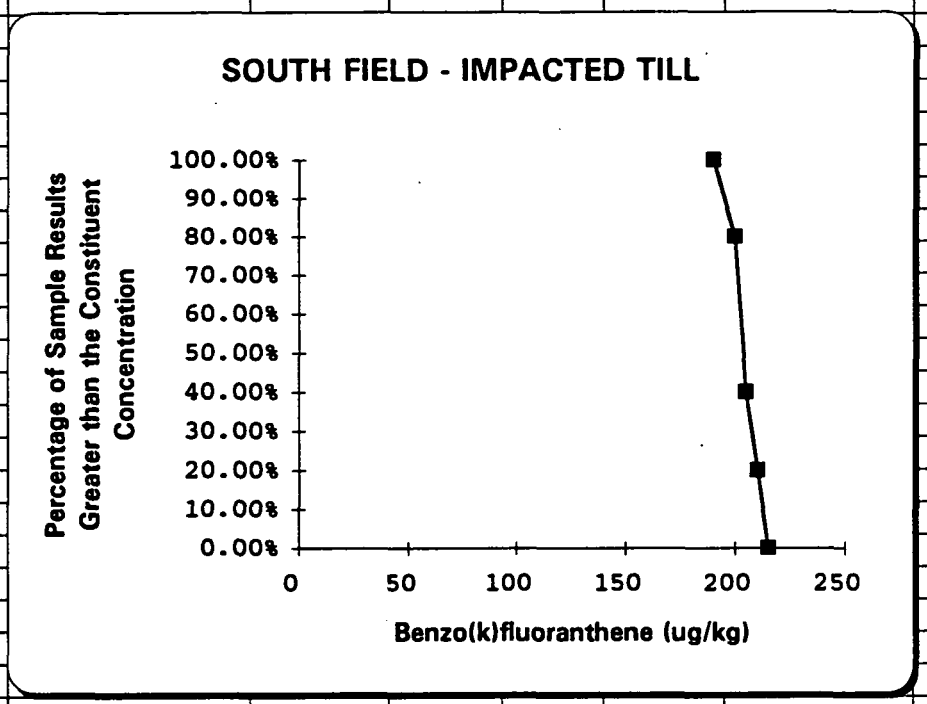

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112545	Beryllium	1975	0.85	mg/kg	-	0.85	80.00%
112494	Beryllium	1972	1.7	mg/kg	U	0.85	80.00%
112507	Beryllium	11186	0.83	mg/kg	-	0.83	60.00%
112731	Beryllium	1967	0.49	mg/kg	-	0.49	40.00%
112559	Beryllium	1969	0.48	mg/kg	U	0.24	20.00%
110579	Beryllium	1977	0.39	mg/kg	U	0.195	0.00%

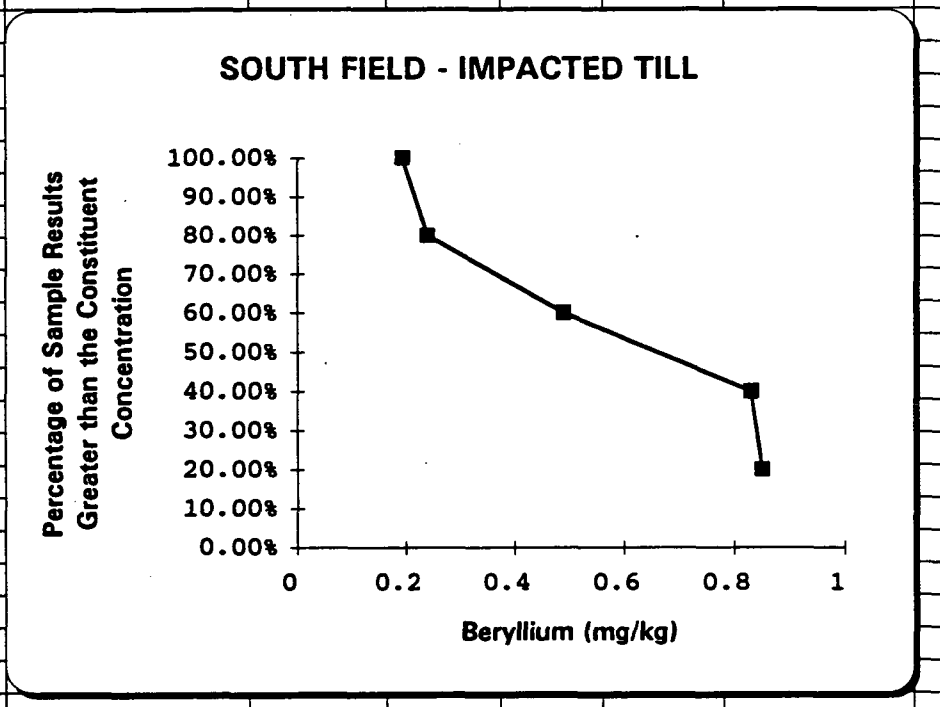

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TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055953	Cesium-137	1467	0.2	pci/g	U	0.1	26.08%
055969	Cesium-137	1471	0.2	pci/g	U	0.1	26.08%
008014	Cesium-137	1046	0.2	pci/g	UJ	0.1	26.08%
055905	Cesium-137	1457	0.2	pci/g	UJ	0.1	26.08%
055901	Cesium-137	1455	0.2	pci/g	UJ	0.1	26.08%
055904	Cesium-137	1457	0.2	pci/g	UJ	0.1	26.08%
055903	Cesium-137	1456	0.2	pci/g	UJ	0.1	26.08%
055918	Cesium-137	1460	0.2	pci/g	UJ	0.1	26.08%
055914	Cesium-137	1458	0.2	pci/g	UJ	0.1	26.08%
055916	Cesium-137	1459	0.2	pci/g	UJ	0.1	26.08%
055931	Cesium-137	1463	0.2	pci/g	UJ	0.1	26.08%
055927	Cesium-137	1461	0.2	pci/g	UJ	0.1	26.08%
055929	Cesium-137	1462	0.2	pci/g	UJ	0.1	26.08%
055940	Cesium-137	1464	0.2	pci/g	UJ	0.1	26.08%
055942	Cesium-137	1465	0.2	pci/g	UJ	0.1	26.08%
055944	Cesium-137	1466	0.2	pci/g	UJ	0.1	26.08%
055955	Cesium-137	1468	0.2	pci/g	UJ	0.1	26.08%
055957	Cesium-137	1469	0.2	pci/g	UJ	0.1	26.08%
112545	Cesium-137	1975	0.116	pci/g	UJ	0.058	21.73%
112507	Cesium-137	11186	0.104	pci/g	UJ	0.052	17.39%
112494	Cesium-137	1972	0.1	pci/g	UJ	0.05	13.04%
112559	Cesium-137	1969	0.0879	pci/g	UJ	0.04395	8.69%
110579	Cesium-137	1977	0.08	pci/g	UJ	0.04	4.34%
112731	Cesium-137	1967	0.073	pci/g	UJ	0.0365	0.00%

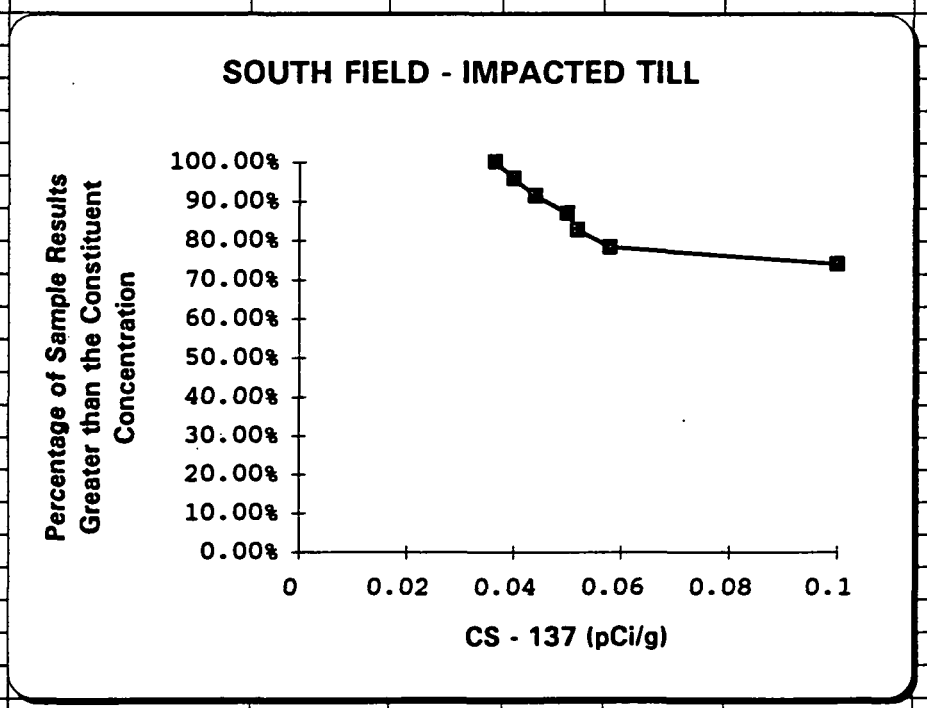

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112507	Dibenzo(a,h)anthracene	11186	430	ug/kg	U	215	100.00%
112559	Dibenzo(a,h)anthracene	1969	420	ug/kg	U	210	80.00%
112494	Dibenzo(a,h)anthracene	1972	410	ug/kg	U	205	60.00%
112545	Dibenzo(a,h)anthracene	1975	400	ug/kg	U	200	20.00%
112731	Dibenzo(a,h)anthracene	1967	400	ug/kg	U	200	20.00%
110579	Dibenzo(a,h)anthracene	1977	380	ug/kg	U	190	0.00%

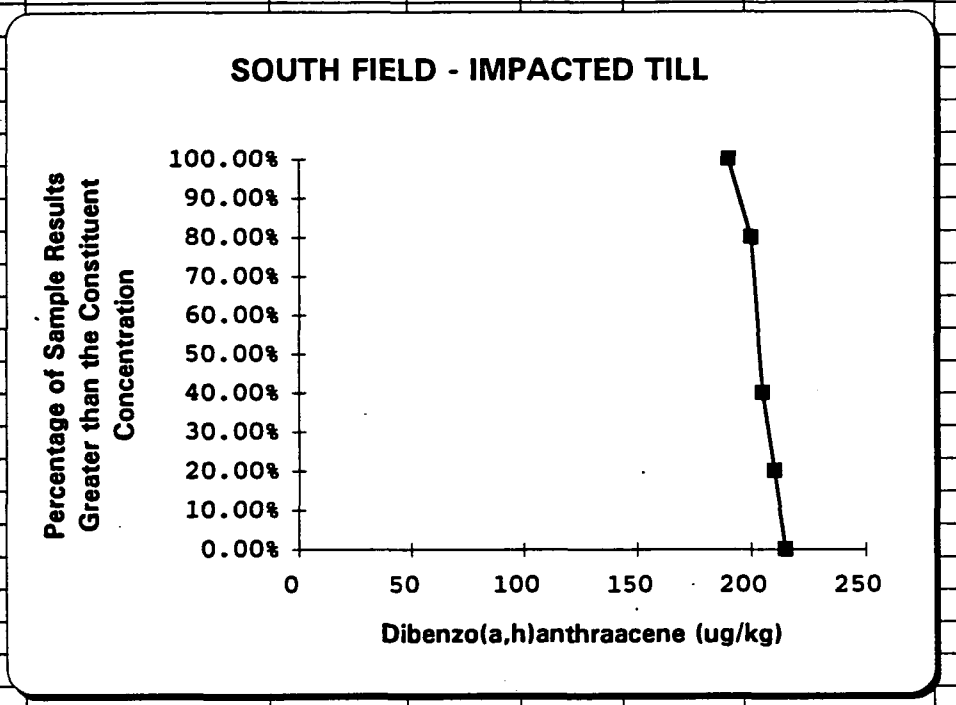

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112507	Indeno(1,2,3-cd)pyrene	11186	430	ug/kg	U	215	100.00%
112559	Indeno(1,2,3-cd)pyrene	1969	420	ug/kg	U	210	80.00%
112494	Indeno(1,2,3-cd)pyrene	1972	410	ug/kg	U	205	60.00%
112545	Indeno(1,2,3-cd)pyrene	1975	400	ug/kg	U	200	20.00%
112731	Indeno(1,2,3-cd)pyrene	1967	400	ug/kg	U	200	20.00%
110579	Indeno(1,2,3-cd)pyrene	1977	380	ug/kg	U	190	0.00%

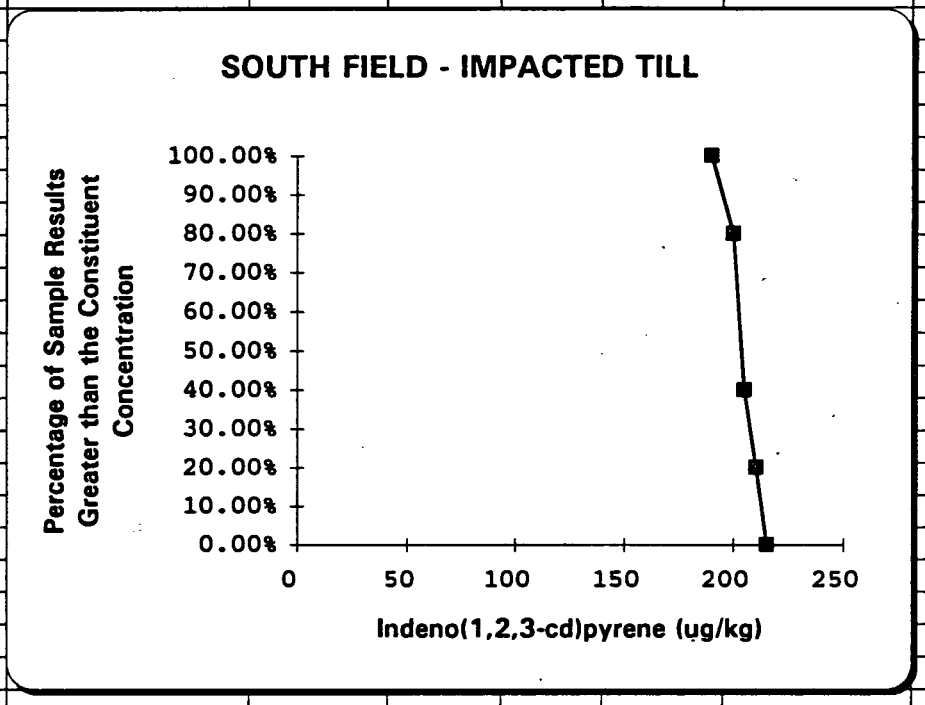

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112507	Neptunium-237	11186	0.553	pci/g	N	0.553	100.00%
008014	Neptunium-237	1046	0.6	pci/g	U	0.3	22.72%
055905	Neptunium-237	1457	0.6	pci/g	U	0.3	22.72%
055901	Neptunium-237	1455	0.6	pci/g	U	0.3	22.72%
055904	Neptunium-237	1457	0.6	pci/g	U	0.3	22.72%
055903	Neptunium-237	1456	0.6	pci/g	U	0.3	22.72%
055918	Neptunium-237	1460	0.6	pci/g	UJ	0.3	22.72%
055914	Neptunium-237	1458	0.6	pci/g	UJ	0.3	22.72%
055916	Neptunium-237	1459	0.6	pci/g	UJ	0.3	22.72%
055940	Neptunium-237	1464	0.6	pci/g	UJ	0.3	22.72%
055942	Neptunium-237	1465	0.6	pci/g	UJ	0.3	22.72%
055944	Neptunium-237	1466	0.6	pci/g	UJ	0.3	22.72%
055953	Neptunium-237	1467	0.6	pci/g	UJ	0.3	22.72%
055955	Neptunium-237	1468	0.6	pci/g	UJ	0.3	22.72%
055957	Neptunium-237	1469	0.6	pci/g	UJ	0.3	22.72%
055967	Neptunium-237	1470	0.6	pci/g	UJ	0.3	22.72%
055971	Neptunium-237	1472	0.6	pci/g	UJ	0.3	22.72%
055969	Neptunium-237	1471	0.6	pci/g	UJ	0.3	22.72%
112494	Neptunium-237	1972	0.291	pci/g	N	0.291	18.18%
112545	Neptunium-237	1975	0.269	pci/g	N	0.269	13.63%
110579	Neptunium-237	1977	0.112	pci/g	N	0.112	9.09%
112559	Neptunium-237	1969	0.0343	pci/g	N	0.0343	4.54%
112731	Neptunium-237	1967	0.0315	pci/g	U	0.01575	0.00%

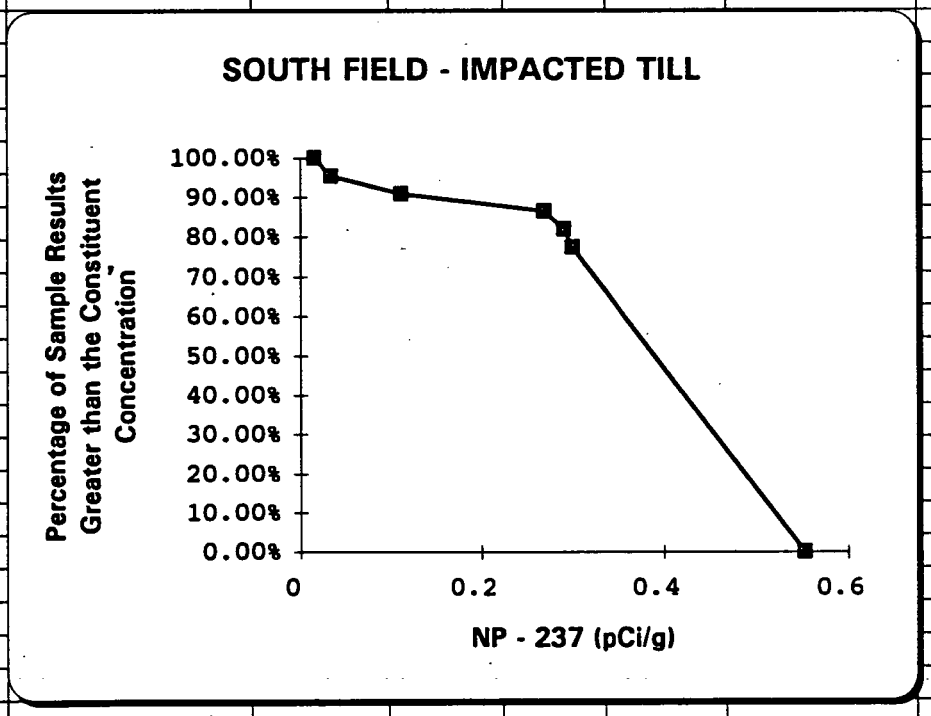

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055904	Radium-226	1457	15.7	pci/g	J	15.7	100.00%
112507	Radium-226	11186	1.99	pci/g	-	1.99	95.65%
055927	Radium-226	1461	1.65	pci/g	J	1.65	91.30%
055955	Radium-226	1468	1.58	pci/g	J	1.58	86.95%
055953	Radium-226	1467	1.56	pci/g	-	1.56	78.26%
055944	Radium-226	1466	1.56	pci/g	J	1.56	78.26%
055931	Radium-226	1463	1.51	pci/g	J	1.51	73.91%
055905	Radium-226	1457	1.44	pci/g	J	1.44	65.21%
055940	Radium-226	1464	1.44	pci/g	J	1.44	65.21%
055914	Radium-226	1458	1.41	pci/g	J	1.41	60.86%
055929	Radium-226	1462	1.38	pci/g	J	1.38	56.52%
055916	Radium-226	1459	1.31	pci/g	J	1.31	52.17%
008014	Radium-226	1046	1.3	pci/g	J	1.3	39.13%
055901	Radium-226	1455	1.3	pci/g	J	1.3	39.13%
055942	Radium-226	1465	1.3	pci/g	J	1.3	39.13%
055957	Radium-226	1469	1.27	pci/g	J	1.27	34.78%
112545	Radium-226	1975	1.26	pci/g	-	1.26	30.43%
055903	Radium-226	1456	1.18	pci/g	J	1.18	26.08%
055918	Radium-226	1460	1.15	pci/g	J	1.15	21.73%
112731	Radium-226	1967	1.02	pci/g	-	1.02	17.39%
112559	Radium-226	1969	0.918	pci/g	-	0.918	13.04%
112494	Radium-226	1972	0.87	pci/g	-	0.87	8.69%
110579	Radium-226	1977	0.81	pci/g	-	0.81	4.34%
055969	Radium-226	1471	0.3	pci/g	U	0.15	0.00%

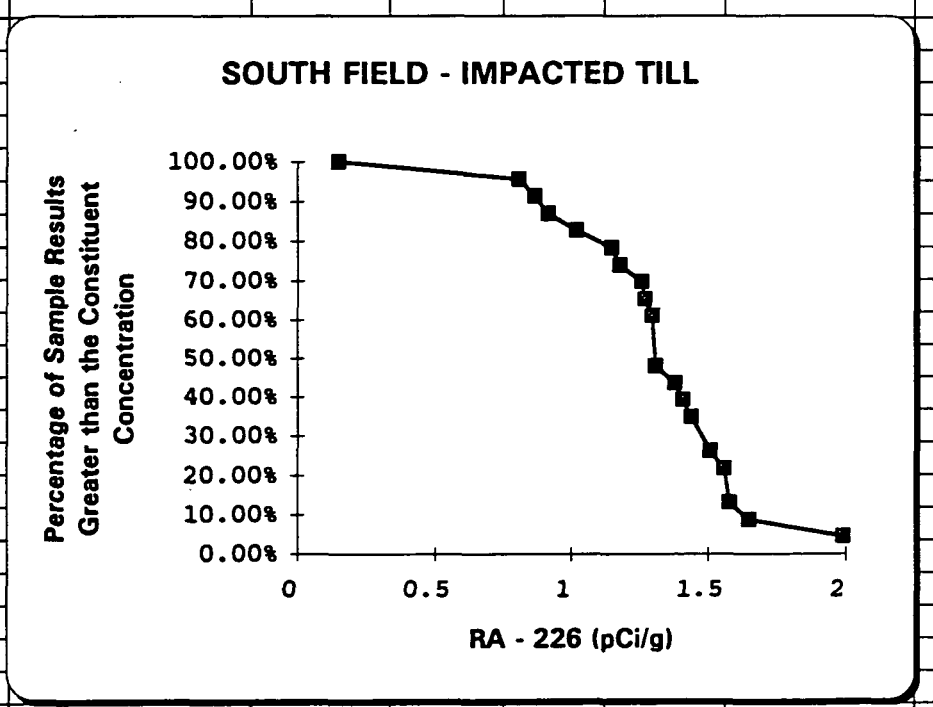

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055904	Radium-228	1457	2.46	pci/g	J	2.46	100.00%
055914	Radium-228	1458	1.95	pci/g	J	1.95	95.65%
055901	Radium-228	1455	1.58	pci/g	J	1.58	91.30%
055905	Radium-228	1457	1.56	pci/g	J	1.56	86.95%
055944	Radium-228	1466	1.46	pci/g	J	1.46	82.60%
112545	Radium-228	1975	1.42	pci/g	-	1.42	78.26%
055927	Radium-228	1461	1.41	pci/g	J	1.41	73.91%
055957	Radium-228	1469	1.39	pci/g	J	1.39	69.56%
055929	Radium-228	1462	1.37	pci/g	J	1.37	65.21%
055953	Radium-228	1467	1.35	pci/g	-	1.35	60.86%
055942	Radium-228	1465	1.31	pci/g	J	1.31	56.52%
008014	Radium-228	1046	1.3	pci/g	J	1.3	47.82%
055903	Radium-228	1456	1.3	pci/g	J	1.3	47.82%
055931	Radium-228	1463	1.26	pci/g	J	1.26	39.13%
055940	Radium-228	1464	1.26	pci/g	J	1.26	39.13%
055916	Radium-228	1459	1.25	pci/g	J	1.25	34.78%
112507	Radium-228	11186	1.1	pci/g	-	1.1	30.43%
055969	Radium-228	1471	1.09	pci/g	-	1.09	26.08%
112494	Radium-228	1972	0.93	pci/g	-	0.93	21.73%
112731	Radium-228	1967	0.899	pci/g	-	0.899	17.39%
110579	Radium-228	1977	0.87	pci/g	-	0.87	13.04%
055918	Radium-228	1460	0.85	pci/g	J	0.85	8.69%
112559	Radium-228	1969	0.734	pci/g	-	0.734	4.34%
055955	Radium-228	1468	0.54	pci/g	UJ	0.27	0.00%

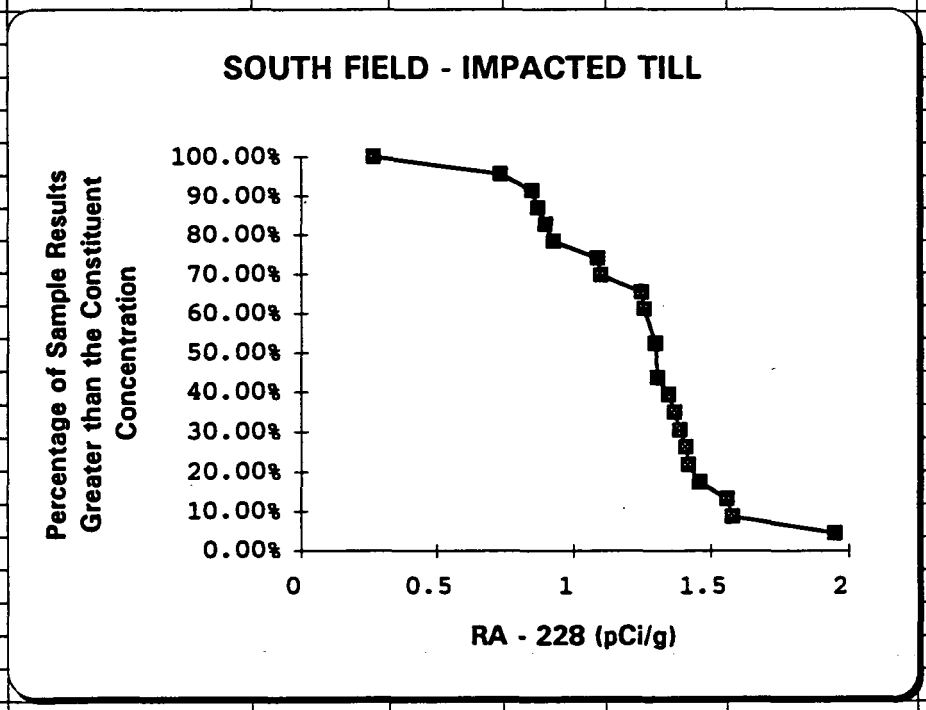

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112545	Strontium-90	1975	1.57	pci/g	-	1.57	100.00%
55971	Strontium-90	1472	1.1	pci/g	J	1.1	95.40%
55944	Strontium-90	1466	0.92	pci/g	-	0.92	90.90%
112507	Strontium-90	11186	0.815	pci/g	J	0.815	86.30%
55967	Strontium-90	1470	0.66	pci/g	J	0.66	81.80%
112559	Strontium-90	1969	0.65	pci/g	J	0.65	77.20%
110579	Strontium-90	1977	0.59	pci/g	J	0.59	72.70%
55969	Strontium-90	1471	0.5	pci/g	-	0.5	68.10%
8014	Strontium-90	1046	0.5	pci/g	U	0.25	9.00%
55905	Strontium-90	1457	0.5	pci/g	U	0.25	9.00%
55904	Strontium-90	1457	0.5	pci/g	U	0.25	9.00%
55903	Strontium-90	1456	0.5	pci/g	U	0.25	9.00%
55918	Strontium-90	1460	0.5	pci/g	U	0.25	9.00%
55914	Strontium-90	1458	0.5	pci/g	U	0.25	9.00%
55916	Strontium-90	1459	0.5	pci/g	U	0.25	9.00%
55931	Strontium-90	1463	0.5	pci/g	U	0.25	9.00%
55929	Strontium-90	1462	0.5	pci/g	U	0.25	9.00%
55940	Strontium-90	1464	0.5	pci/g	UJ	0.25	9.00%
55942	Strontium-90	1465	0.5	pci/g	U	0.25	9.00%
55953	Strontium-90	1467	0.5	pci/g	U	0.25	9.00%
55957	Strontium-90	1469	0.5	pci/g	U	0.25	9.00%
112731	Strontium-90	1967	0.441	pci/g	UJ	0.2205	4.50%
112494	Strontium-90	1972	0.4	pci/g	UJ	0.2	.00%

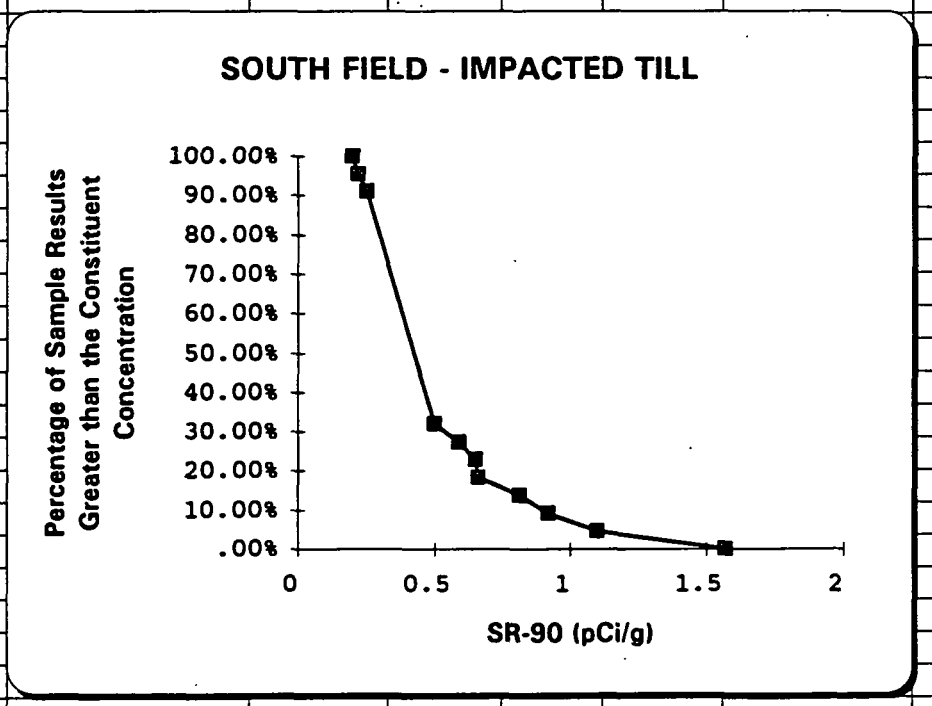

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055967	Technetium-99	1470	0.9	pci/g	-	0.9	100.00%
055971	Technetium-99	1472	0.9	pci/g	U	0.45	75.00%
055969	Technetium-99	1471	0.9	pci/g	U	0.45	75.00%
112545	Technetium-99	1975	0.405	pci/g	UJ	0.2025	62.50%
112731	Technetium-99	1967	0.399	pci/g	UJ	0.1995	50.00%
112507	Technetium-99	11186	0.386	pci/g	UJ	0.193	37.50%
112494	Technetium-99	1972	0.38	pci/g	UJ	0.19	25.00%
110579	Technetium-99	1977	0.36	pci/g	UJ	0.18	12.50%
112559	Technetium-99	1969	0.331	pci/g	UJ	0.1655	0.00%

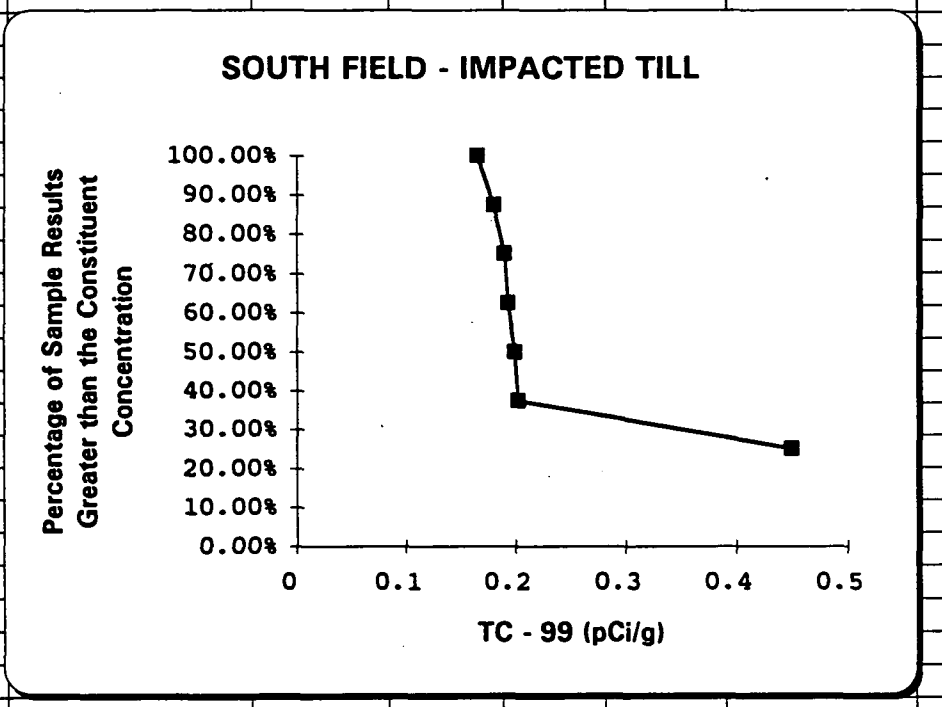

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055904	Thorium-228	1457	2.63	pci/g	J	2.63	100.00%
055914	Thorium-228	1458	2.06	pci/g	J	2.06	95.83%
055927	Thorium-228	1461	1.72	pci/g	J	1.72	91.66%
055916	Thorium-228	1459	1.62	pci/g	J	1.62	87.50%
055940	Thorium-228	1464	1.48	pci/g	J	1.48	83.33%
055901	Thorium-228	1455	1.42	pci/g	J	1.42	79.16%
055944	Thorium-228	1466	1.35	pci/g	J	1.35	75.00%
055905	Thorium-228	1457	1.3	pci/g	J	1.3	70.83%
055929	Thorium-228	1462	1.27	pci/g	J	1.27	66.66%
055918	Thorium-228	1460	1.26	pci/g	J	1.26	62.50%
055903	Thorium-228	1456	1.25	pci/g	J	1.25	58.33%
055969	Thorium-228	1471	1.24	pci/g	-	1.24	54.16%
055931	Thorium-228	1463	1.22	pci/g	J	1.22	45.83%
055942	Thorium-228	1465	1.22	pci/g	J	1.22	45.83%
112545	Thorium-228	1975	1.2	pci/g	-	1.2	41.66%
055955	Thorium-228	1468	1.19	pci/g	J	1.19	37.50%
055953	Thorium-228	1467	1.12	pci/g	J	1.12	33.33%
008014	Thorium-228	1046	1.1	pci/g	-	1.1	29.16%
055971	Thorium-228	1472	1.07	pci/g	-	1.07	25.00%
055967	Thorium-228	1470	1.05	pci/g	-	1.05	20.83%
112731	Thorium-228	1967	0.995	pci/g	J	0.995	16.66%
112507	Thorium-228	11186	0.991	pci/g	-	0.991	12.50%
055957	Thorium-228	1469	0.954	pci/g	J	0.954	8.33%
110579	Thorium-228	1977	0.88	pci/g	-	0.88	4.16%
112494	Thorium-228	1972	0.67	pci/g	-	0.67	0.00%

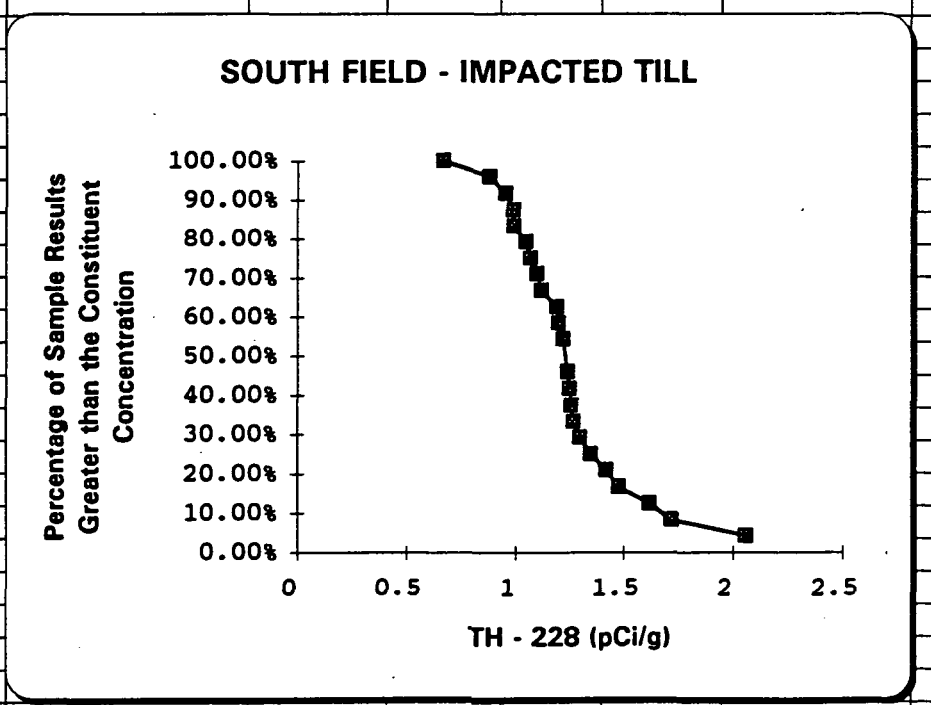

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055904	Thorium-230	1457	57.3	pci/g	J	57.3	100.00%
055914	Thorium-230	1458	4.41	pci/g	J	4.41	95.83%
055918	Thorium-230	1460	3.22	pci/g	J	3.22	91.66%
055905	Thorium-230	1457	2.16	pci/g	J	2.16	83.33%
055916	Thorium-230	1459	2.16	pci/g	J	2.16	83.33%
055927	Thorium-230	1461	2.13	pci/g	J	2.13	79.16%
055901	Thorium-230	1455	2.12	pci/g	J	2.12	75.00%
055929	Thorium-230	1462	2.06	pci/g	J	2.06	70.83%
055931	Thorium-230	1463	2.01	pci/g	J	2.01	66.66%
112507	Thorium-230	11186	2	pci/g	-	2	62.50%
055953	Thorium-230	1467	1.99	pci/g	J	1.99	58.33%
112731	Thorium-230	1967	1.96	pci/g	J	1.96	54.16%
055969	Thorium-230	1471	1.9	pci/g	-	1.9	50.00%
055940	Thorium-230	1464	1.82	pci/g	J	1.82	41.66%
055955	Thorium-230	1468	1.82	pci/g	J	1.82	41.66%
055903	Thorium-230	1456	1.78	pci/g	J	1.78	37.50%
112545	Thorium-230	1975	1.69	pci/g	-	1.69	33.33%
055971	Thorium-230	1472	1.65	pci/g	-	1.65	29.16%
055967	Thorium-230	1470	1.63	pci/g	-	1.63	25.00%
055944	Thorium-230	1466	1.44	pci/g	J	1.44	20.83%
055942	Thorium-230	1465	1.41	pci/g	J	1.41	16.66%
008014	Thorium-230	1046	1.3	pci/g	-	1.3	12.50%
055957	Thorium-230	1469	1.19	pci/g	J	1.19	8.33%
110579	Thorium-230	1977	1	pci/g	-	1	4.16%
112494	Thorium-230	1972	0.83	pci/g	-	0.83	0.00%

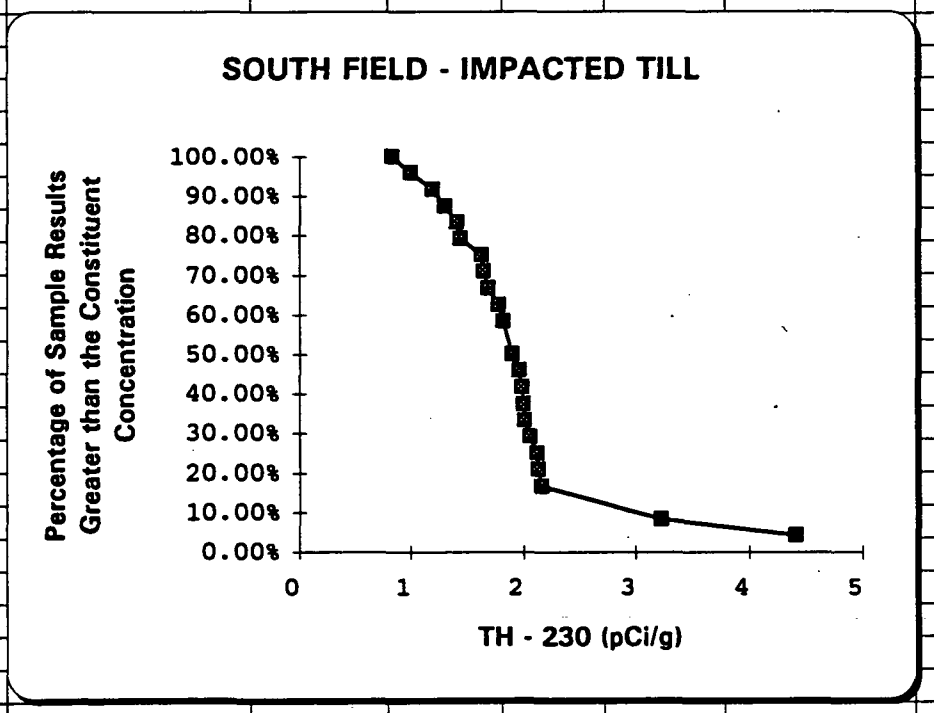

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055904	Thorium-232	1457	3.44	pci/g	-	3.44	100.00%
055914	Thorium-232	1458	1.87	pci/g	-	1.87	95.83%
055927	Thorium-232	1461	1.4	pci/g	-	1.4	91.66%
055916	Thorium-232	1459	1.33	pci/g	-	1.33	87.50%
055905	Thorium-232	1457	1.29	pci/g	-	1.29	83.33%
055929	Thorium-232	1462	1.27	pci/g	-	1.27	79.16%
055940	Thorium-232	1464	1.23	pci/g	-	1.23	75.00%
055901	Thorium-232	1455	1.19	pci/g	-	1.19	70.83%
055953	Thorium-232	1467	1.18	pci/g	J	1.18	66.66%
112545	Thorium-232	1975	1.17	pci/g	-	1.17	62.50%
055931	Thorium-232	1463	1.16	pci/g	-	1.16	58.33%
055944	Thorium-232	1466	1.14	pci/g	-	1.14	54.16%
055955	Thorium-232	1468	1.13	pci/g	J	1.13	50.00%
055918	Thorium-232	1460	1.12	pci/g	-	1.12	45.83%
055903	Thorium-232	1456	1.05	pci/g	-	1.05	37.50%
055971	Thorium-232	1472	1.05	pci/g	-	1.05	37.50%
055969	Thorium-232	1471	1	pci/g	-	1	33.33%
112507	Thorium-232	11186	0.985	pci/g	-	0.985	29.16%
055967	Thorium-232	1470	0.903	pci/g	-	0.903	25.00%
055957	Thorium-232	1469	0.885	pci/g	J	0.885	20.83%
055942	Thorium-232	1465	0.856	pci/g	-	0.856	16.66%
110579	Thorium-232	1977	0.82	pci/g	-	0.82	12.50%
008014	Thorium-232	1046	0.8	pci/g	-	0.8	8.33%
112731	Thorium-232	1967	0.796	pci/g	J	0.796	4.16%
112494	Thorium-232	1972	0.6	pci/g	J	0.6	0.00%

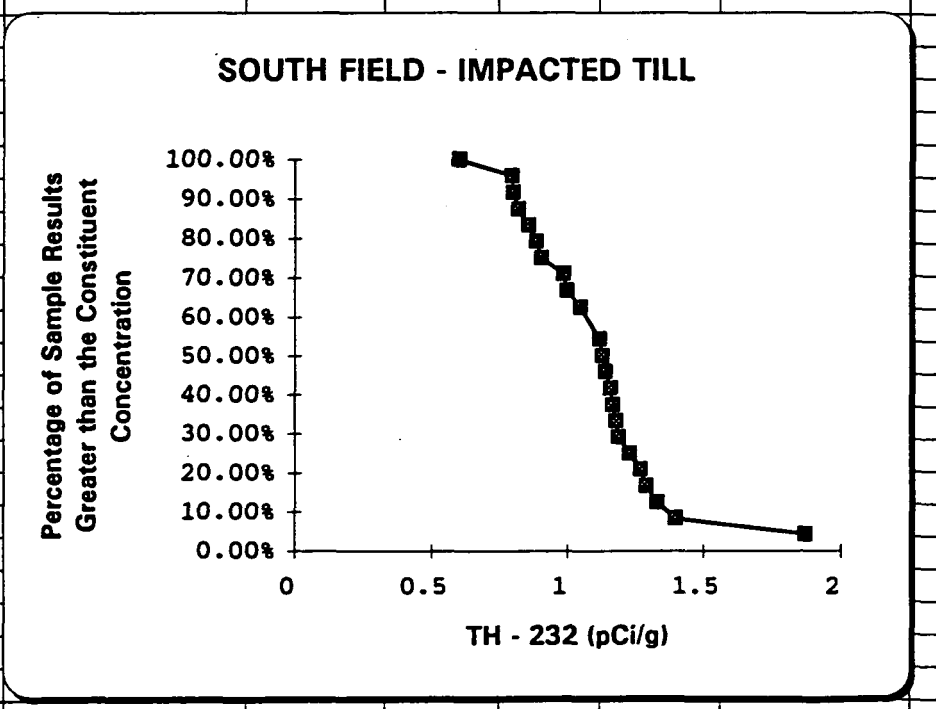

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055918	Uranium, Total	1460	230	mg/kg	J	230	100.00%
055916	Uranium, Total	1459	189	mg/kg	J	189	95.65%
055904	Uranium, Total	1457	71.4	mg/kg	J	71.4	91.30%
055914	Uranium, Total	1458	59.8	mg/kg	J	59.8	86.95%
055929	Uranium, Total	1462	14.8	mg/kg	J	14.8	82.60%
112494	Uranium, Total	1972	14.4	mg/kg	-	14.4	78.26%
055905	Uranium, Total	1457	11.9	mg/kg	J	11.9	73.91%
112545	Uranium, Total	1975	11.6	mg/kg	-	11.6	69.56%
055901	Uranium, Total	1455	10.3	mg/kg	J	10.3	65.21%
055971	Uranium, Total	1472	9.9	mg/kg	-	9.9	60.86%
112731	Uranium, Total	1967	9.17	mg/kg	-	9.17	56.52%
055953	Uranium, Total	1467	8.59	mg/kg	-	8.59	52.17%
055931	Uranium, Total	1463	5.52	mg/kg	J	5.52	47.82%
055969	Uranium, Total	1471	5.24	mg/kg	-	5.24	43.47%
055927	Uranium, Total	1461	5.17	mg/kg	J	5.17	39.13%
055967	Uranium, Total	1470	5.06	mg/kg	-	5.06	34.78%
055940	Uranium, Total	1464	5.03	mg/kg	J	5.03	30.43%
055957	Uranium, Total	1469	4.96	mg/kg	J	4.96	26.08%
112559	Uranium, Total	1969	4.82	mg/kg	-	4.82	21.73%
055944	Uranium, Total	1466	4.72	mg/kg	J	4.72	17.39%
055942	Uranium, Total	1465	4.26	mg/kg	J	4.26	13.04%
110579	Uranium, Total	1977	3.5	mg/kg	J	3.5	8.69%
055955	Uranium, Total	1468	4.5	mg/kg	UJ	2.25	4.34%
112507	Uranium, Total	11186	1.8	mg/kg	-	1.8	0.00%

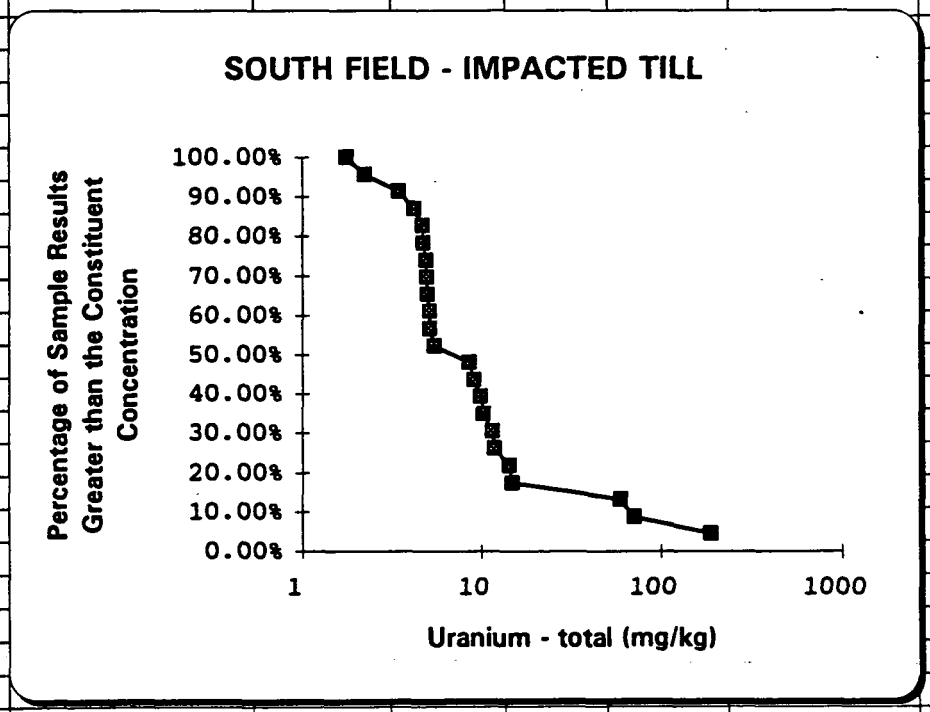

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055918	Uranium-234	1460	75.7	pci/g	-	75.7	100.00%
055916	Uranium-234	1459	57.2	pci/g	-	57.2	96.00%
055904	Uranium-234	1457	26.4	pci/g	-	26.4	92.00%
055914	Uranium-234	1458	22.4	pci/g	-	22.4	88.00%
055903	Uranium-234	1456	22.1	pci/g	-	22.1	84.00%
112507	Uranium-234	11186	6.05	pci/g	-	6.05	80.00%
055929	Uranium-234	1462	4.71	pci/g	-	4.71	72.00%
055944	Uranium-234	1466	4.71	pci/g	-	4.71	72.00%
112494	Uranium-234	1972	4.48	pci/g	-	4.48	68.00%
055905	Uranium-234	1457	4.06	pci/g	-	4.06	64.00%
055942	Uranium-234	1465	3.27	pci/g	-	3.27	60.00%
112545	Uranium-234	1975	2.49	pci/g	-	2.49	56.00%
055901	Uranium-234	1455	2.44	pci/g	-	2.44	52.00%
055971	Uranium-234	1472	2.13	pci/g	-	2.13	48.00%
055940	Uranium-234	1464	1.96	pci/g	-	1.96	44.00%
008014	Uranium-234	1046	1.7	pci/g	-	1.7	40.00%
055967	Uranium-234	1470	1.51	pci/g	-	1.51	36.00%
055927	Uranium-234	1461	1.49	pci/g	-	1.49	32.00%
112559	Uranium-234	1969	1.44	pci/g	-	1.44	28.00%
055955	Uranium-234	1468	1.31	pci/g	J	1.31	24.00%
055931	Uranium-234	1463	1.15	pci/g	-	1.15	20.00%
055957	Uranium-234	1469	1.14	pci/g	J	1.14	16.00%
110579	Uranium-234	1977	1.09	pci/g	-	1.09	12.00%
055969	Uranium-234	1471	1.04	pci/g	-	1.04	8.00%
055953	Uranium-234	1467	0.965	pci/g	J	0.965	4.00%
112731	Uranium-234	1967	0.79	pci/g	-	0.79	0.00%

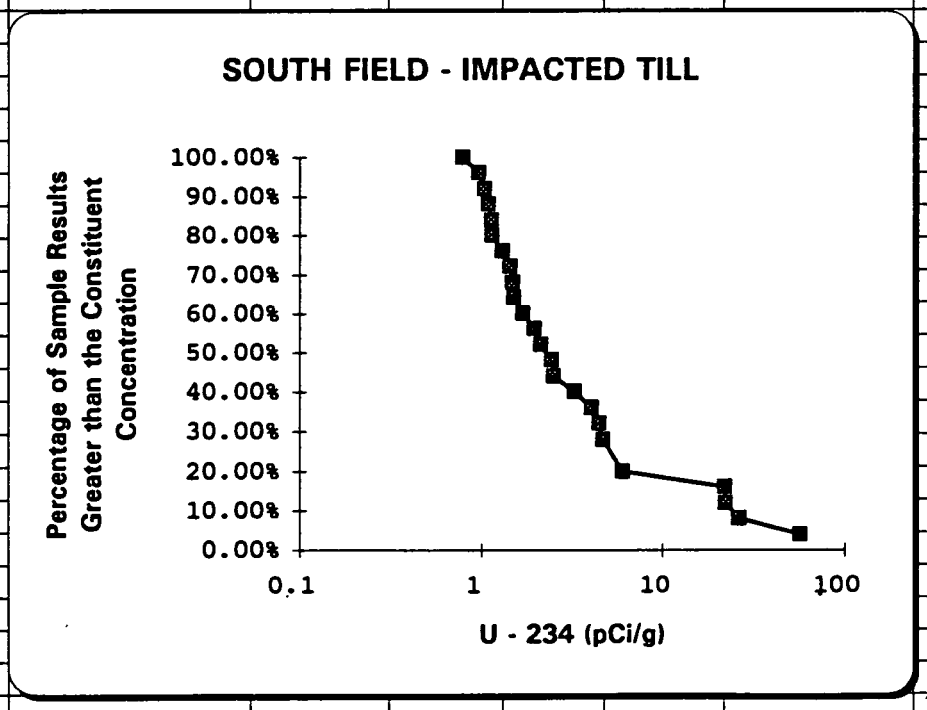

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055918	Uranium-235/236	1460	3.77	pci/g	-	3.77	100.00%
055916	Uranium-235/236	1459	2.73	pci/g	-	2.73	96.00%
055904	Uranium-235/236	1457	1.66	pci/g	-	1.66	92.00%
055914	Uranium-235/236	1458	1.18	pci/g	-	1.18	88.00%
055903	Uranium-235/236	1456	1.12	pci/g	-	1.12	84.00%
112507	Uranium-235/236	11186	0.3	pci/g	J	0.3	20.00%
008014	Uranium-235/236	1046	0.6	pci/g	U	0.3	20.00%
055905	Uranium-235/236	1457	0.6	pci/g	U	0.3	20.00%
055901	Uranium-235/236	1455	0.6	pci/g	U	0.3	20.00%
055967	Uranium-235/236	1470	0.6	pci/g	U	0.3	20.00%
055971	Uranium-235/236	1472	0.6	pci/g	U	0.3	20.00%
055969	Uranium-235/236	1471	0.6	pci/g	U	0.3	20.00%
055931	Uranium-235/236	1463	0.6	pci/g	UJ	0.3	20.00%
055927	Uranium-235/236	1461	0.6	pci/g	UJ	0.3	20.00%
055929	Uranium-235/236	1462	0.6	pci/g	UJ	0.3	20.00%
055940	Uranium-235/236	1464	0.6	pci/g	UJ	0.3	20.00%
055942	Uranium-235/236	1465	0.6	pci/g	UJ	0.3	20.00%
055944	Uranium-235/236	1466	0.6	pci/g	UJ	0.3	20.00%
055953	Uranium-235/236	1467	0.6	pci/g	UJ	0.3	20.00%
055955	Uranium-235/236	1468	0.6	pci/g	UJ	0.3	20.00%
055957	Uranium-235/236	1469	0.6	pci/g	UJ	0.3	20.00%
112494	Uranium-235/236	1972	0.26	pci/g	J	0.26	16.00%
112559	Uranium-235/236	1969	0.0766	pci/g	J	0.0766	12.00%
112545	Uranium-235/236	1975	0.0747	pci/g	J	0.0747	8.00%
110579	Uranium-235/236	1977	0.07	pci/g	J	0.07	4.00%
112731	Uranium-235/236	1967	0.0628	pci/g	J	0.0628	0.00%

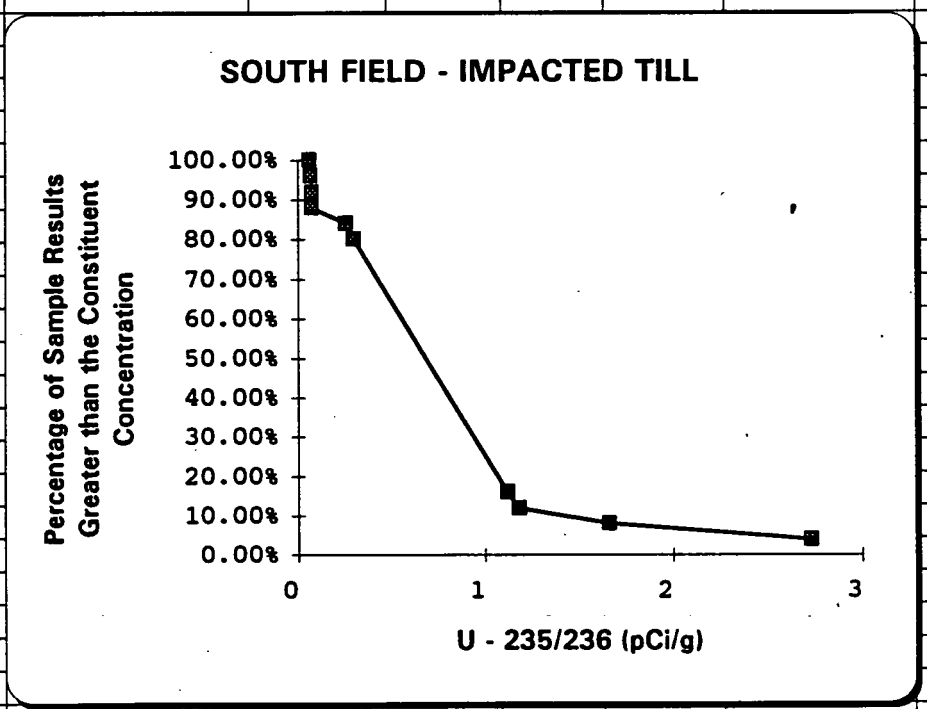

TABLE A.5-16
SOUTH FIELD - IMPACTED TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055918	Uranium-238	1460	78.8	pci/g	-	78.8	100.00%
055916	Uranium-238	1459	60.8	pci/g	-	60.8	96.00%
055904	Uranium-238	1457	28.1	pci/g	-	28.1	92.00%
055914	Uranium-238	1458	23.6	pci/g	-	23.6	88.00%
055903	Uranium-238	1456	22.6	pci/g	-	22.6	84.00%
112507	Uranium-238	11186	6.61	pci/g	-	6.61	80.00%
055944	Uranium-238	1466	5.36	pci/g	-	5.36	76.00%
112494	Uranium-238	1972	5	pci/g	-	5	72.00%
055929	Uranium-238	1462	4.7	pci/g	-	4.7	68.00%
055905	Uranium-238	1457	4.41	pci/g	-	4.41	64.00%
055942	Uranium-238	1465	3.5	pci/g	-	3.5	60.00%
055901	Uranium-238	1455	3.1	pci/g	-	3.1	56.00%
112545	Uranium-238	1975	2.74	pci/g	-	2.74	52.00%
008014	Uranium-238	1046	2.1	pci/g	-	2.1	48.00%
055971	Uranium-238	1472	2.06	pci/g	-	2.06	44.00%
112559	Uranium-238	1969	1.76	pci/g	-	1.76	36.00%
055940	Uranium-238	1464	1.76	pci/g	-	1.76	36.00%
055967	Uranium-238	1470	1.61	pci/g	-	1.61	32.00%
055931	Uranium-238	1463	1.46	pci/g	-	1.46	28.00%
055927	Uranium-238	1461	1.42	pci/g	-	1.42	24.00%
055957	Uranium-238	1469	1.38	pci/g	J	1.38	20.00%
055969	Uranium-238	1471	1.35	pci/g	-	1.35	16.00%
055953	Uranium-238	1467	1.32	pci/g	J	1.32	8.00%
055955	Uranium-238	1468	1.32	pci/g	J	1.32	8.00%
110579	Uranium-238	1977	0.98	pci/g	-	0.98	4.00%
112731	Uranium-238	1967	0.859	pci/g	-	0.859	0.00%

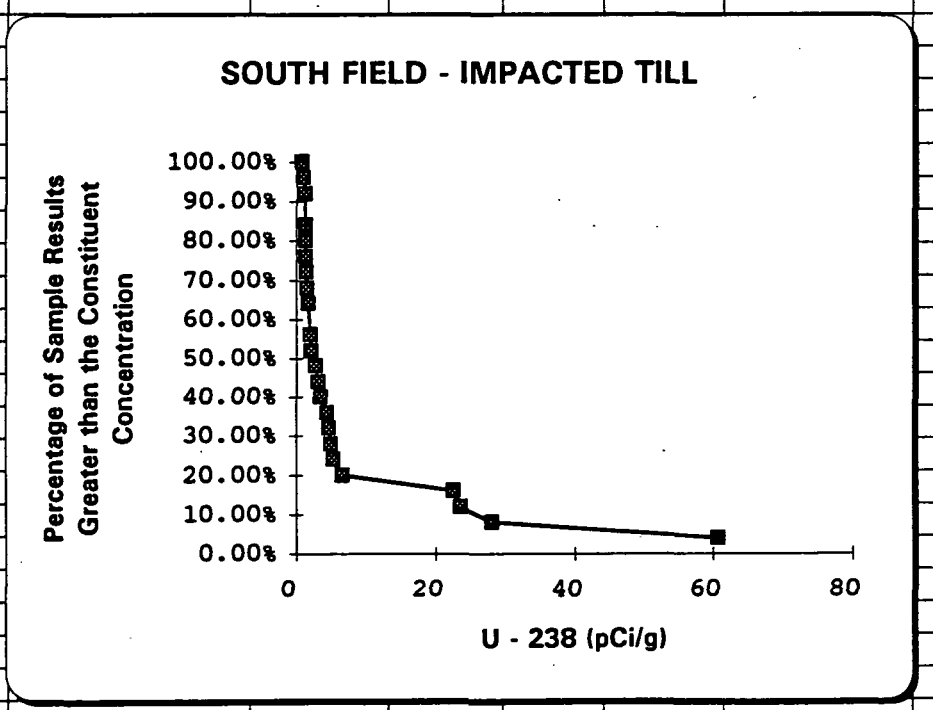

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112514	Aroclor-1254	11186	43	ug/kg	U	21.5	100.00%
110556	Aroclor-1254	11188	42	ug/kg	U	21	62.50%
112584	Aroclor-1254	1978	42	ug/kg	U	21	62.50%
112883	Aroclor-1254	1966	42	ug/kg	U	21	62.50%
112550	Aroclor-1254	1975	41	ug/kg	U	20.5	37.50%
112593	Aroclor-1254	1971	41	ug/kg	U	20.5	37.50%
112526	Aroclor-1254	11187	40	ug/kg	U	20	25.00%
112588	Aroclor-1254	1978	37	ug/kg	U	18.5	0.00%
112849	Aroclor-1254	1968	37	ug/kg	U	18.5	0.00%

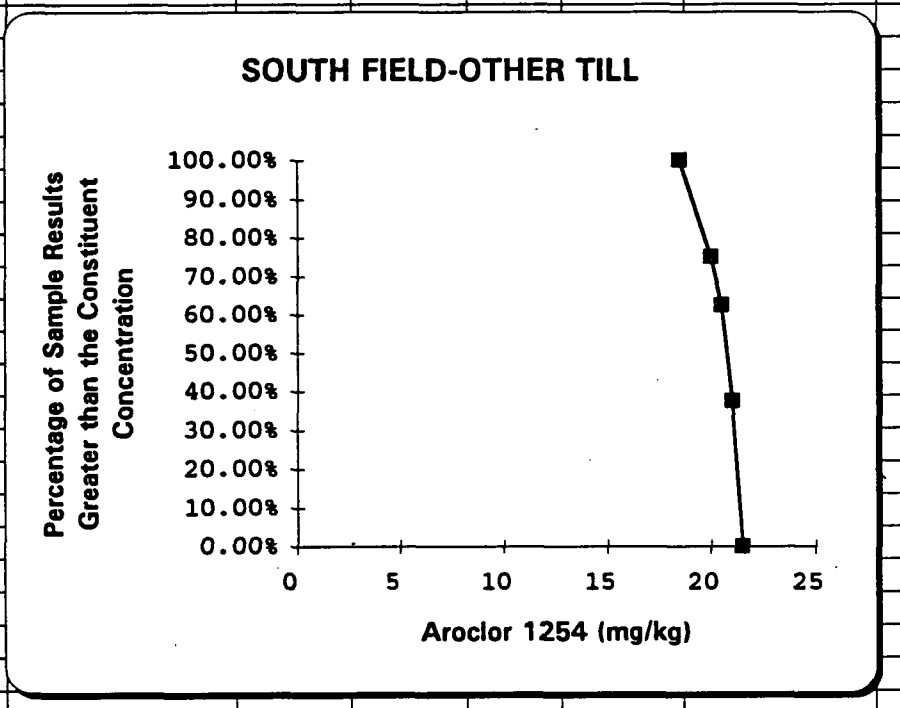

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112514	Aroclor-1260	11186	43	ug/kg	U	21.5	100.00%
110556	Aroclor-1260	11188	42	ug/kg	U	21	62.50%
112584	Aroclor-1260	1978	42	ug/kg	U	21	62.50%
112883	Aroclor-1260	1966	42	ug/kg	U	21	62.50%
112550	Aroclor-1260	1975	41	ug/kg	U	20.5	37.50%
112593	Aroclor-1260	1971	41	ug/kg	U	20.5	37.50%
112526	Aroclor-1260	11187	40	ug/kg	U	20	25.00%
112588	Aroclor-1260	1978	37	ug/kg	U	18.5	0.00%
112849	Aroclor-1260	1968	37	ug/kg	U	18.5	0.00%

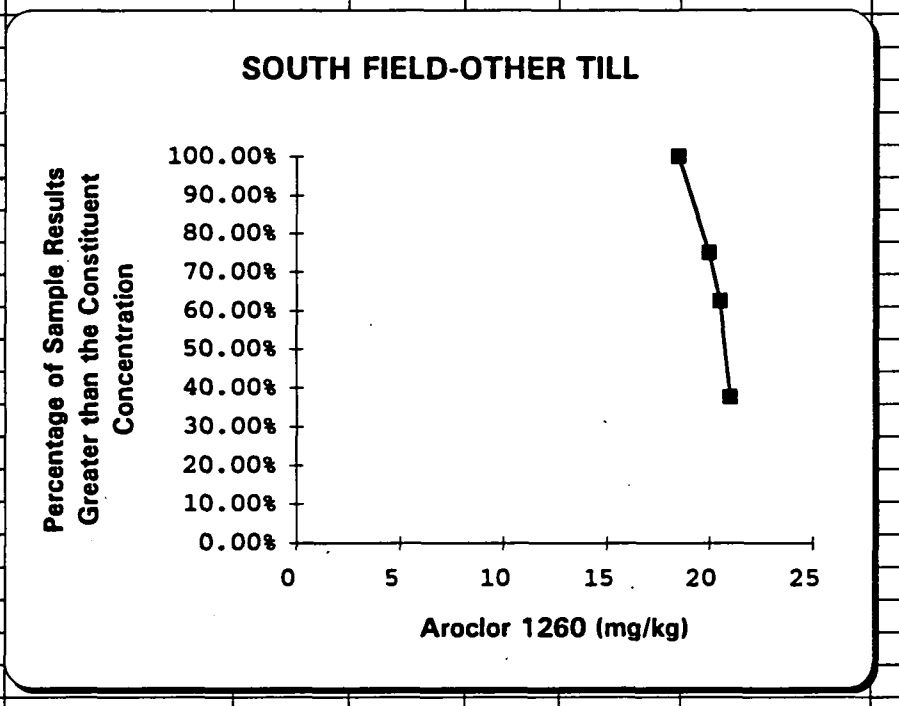

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
110556	Arsenic	11188	9.4	mg/kg	-	9.4	100.00%
112563	Arsenic	1969	7.4	mg/kg	-	7.4	88.88%
112526	Arsenic	11187	7.3	mg/kg	-	7.3	77.77%
112550	Arsenic	1975	6.9	mg/kg	-	6.9	55.55%
112883	Arsenic	1966	6.9	mg/kg	-	6.9	55.55%
112588	Arsenic	1978	6.7	mg/kg	-	6.7	44.44%
112514	Arsenic	11186	6.3	mg/kg	-	6.3	33.33%
112593	Arsenic	1971	5.6	mg/kg	-	5.6	22.22%
112849	Arsenic	1968	5.1	mg/kg	J	5.1	11.11%
112584	Arsenic	1978	4	mg/kg	-	4	0.00%

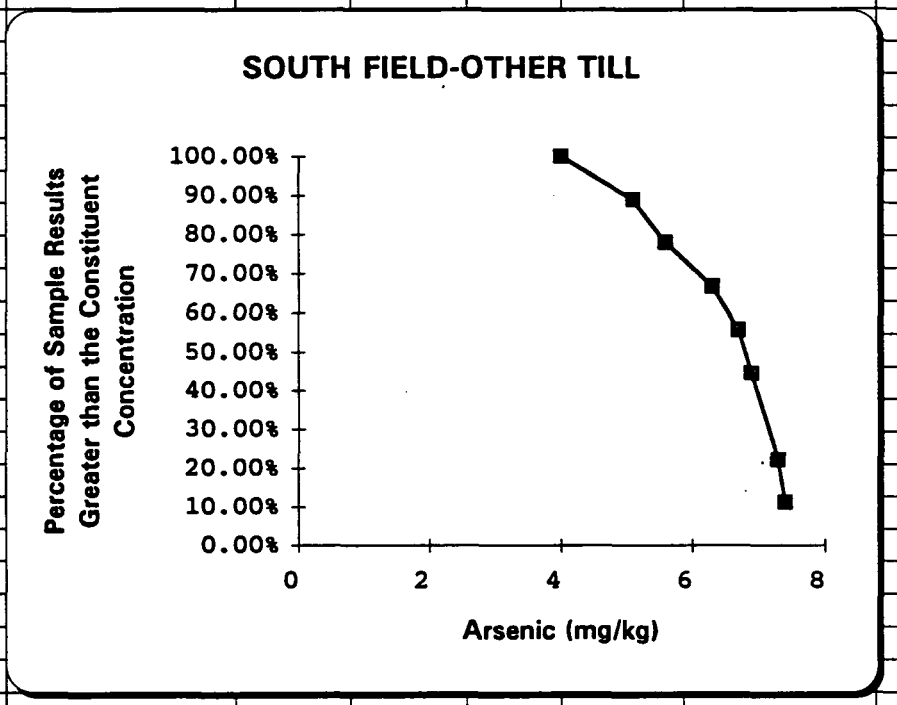

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112584	Benzo(a)anthracene	1978	450	ug/kg	U	225	100.00%
110556	Benzo(a)anthracene	11188	430	ug/kg	UJ	215	88.88%
112514	Benzo(a)anthracene	11186	420	ug/kg	U	210	66.66%
112563	Benzo(a)anthracene	1969	420	ug/kg	U	210	66.66%
112550	Benzo(a)anthracene	1975	410	ug/kg	U	205	33.33%
112593	Benzo(a)anthracene	1971	410	ug/kg	U	205	33.33%
112883	Benzo(a)anthracene	1966	410	ug/kg	U	205	33.33%
112526	Benzo(a)anthracene	11187	400	ug/kg	UJ	200	22.22%
112588	Benzo(a)anthracene	1978	370	ug/kg	U	185	0.00%
112849	Benzo(a)anthracene	1968	370	ug/kg	U	185	0.00%

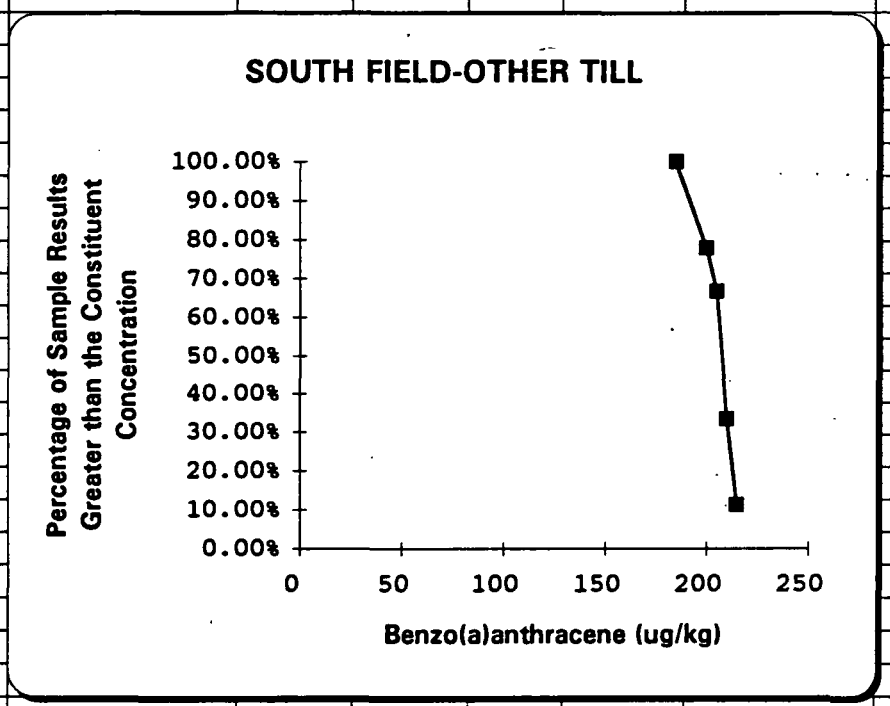

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112584	Benzo(a)pyrene	1978	450	ug/kg	U	225	100.00%
110556	Benzo(a)pyrene	11188	430	ug/kg	UJ	215	88.88%
112514	Benzo(a)pyrene	11186	420	ug/kg	U	210	66.66%
112563	Benzo(a)pyrene	1969	420	ug/kg	U	210	66.66%
112550	Benzo(a)pyrene	1975	410	ug/kg	U	205	33.33%
112593	Benzo(a)pyrene	1971	410	ug/kg	U	205	33.33%
112883	Benzo(a)pyrene	1966	410	ug/kg	U	205	33.33%
112526	Benzo(a)pyrene	11187	400	ug/kg	U	200	22.22%
112588	Benzo(a)pyrene	1978	370	ug/kg	U	185	0.00%
112849	Benzo(a)pyrene	1968	370	ug/kg	U	185	0.00%

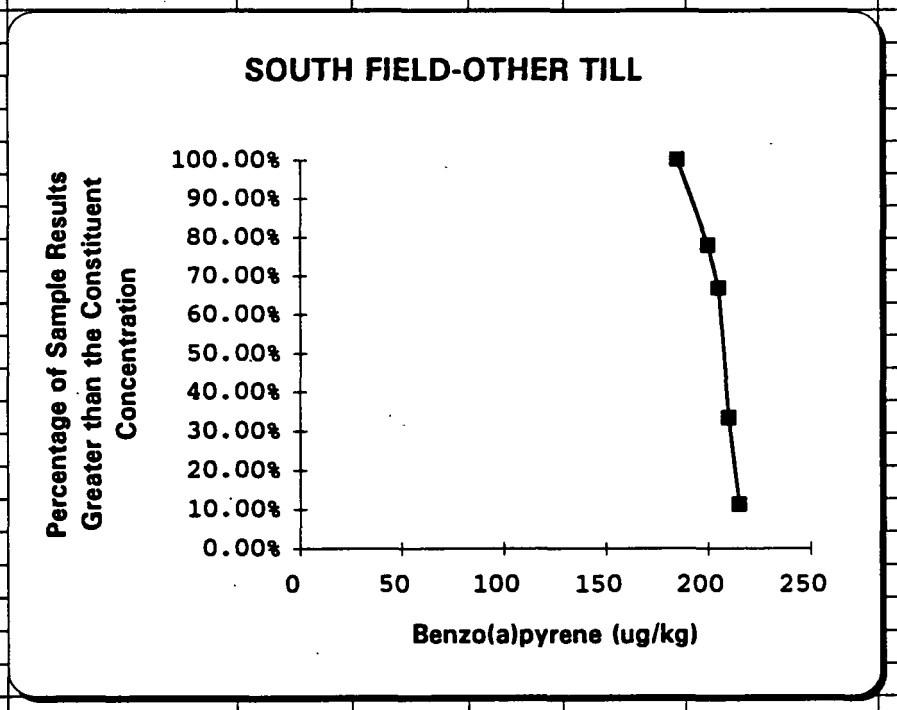

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112584	Benzo(b)fluoranthene	1978	450	ug/kg	U	225	100.00%
110556	Benzo(b)fluoranthene	11188	430	ug/kg	UJ	215	88.88%
112514	Benzo(b)fluoranthene	11186	420	ug/kg	U	210	66.66%
112563	Benzo(b)fluoranthene	1969	420	ug/kg	U	210	66.66%
112550	Benzo(b)fluoranthene	1975	410	ug/kg	U	205	33.33%
112593	Benzo(b)fluoranthene	1971	410	ug/kg	U	205	33.33%
112883	Benzo(b)fluoranthene	1966	410	ug/kg	U	205	33.33%
112526	Benzo(b)fluoranthene	11187	400	ug/kg	U	200	22.22%
112588	Benzo(b)fluoranthene	1978	370	ug/kg	U	185	0.00%
112849	Benzo(b)fluoranthene	1968	370	ug/kg	U	185	0.00%

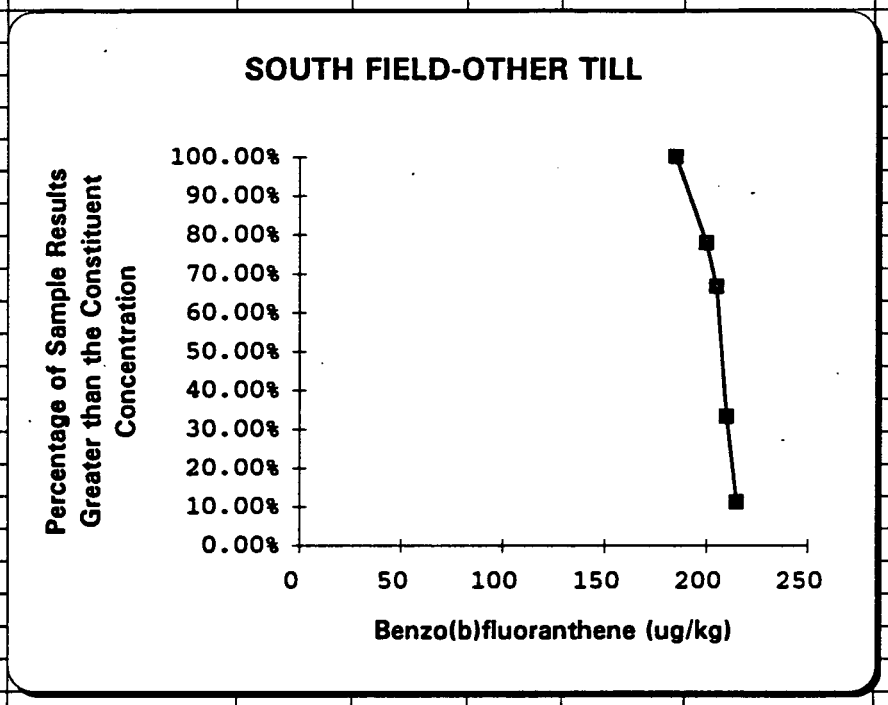

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112584	Benzo(k)fluoranthene	1978	450	ug/kg	U	225	100.00%
110556	Benzo(k)fluoranthene	11188	430	ug/kg	UJ	215	88.88%
112514	Benzo(k)fluoranthene	11186	420	ug/kg	U	210	66.66%
112563	Benzo(k)fluoranthene	1969	420	ug/kg	U	210	66.66%
112550	Benzo(k)fluoranthene	1975	410	ug/kg	U	205	33.33%
112593	Benzo(k)fluoranthene	1971	410	ug/kg	U	205	33.33%
112883	Benzo(k)fluoranthene	1966	410	ug/kg	U	205	33.33%
112526	Benzo(k)fluoranthene	11187	400	ug/kg	U	200	22.22%
112588	Benzo(k)fluoranthene	1978	370	ug/kg	U	185	0.00%
112849	Benzo(k)fluoranthene	1968	370	ug/kg	U	185	0.00%

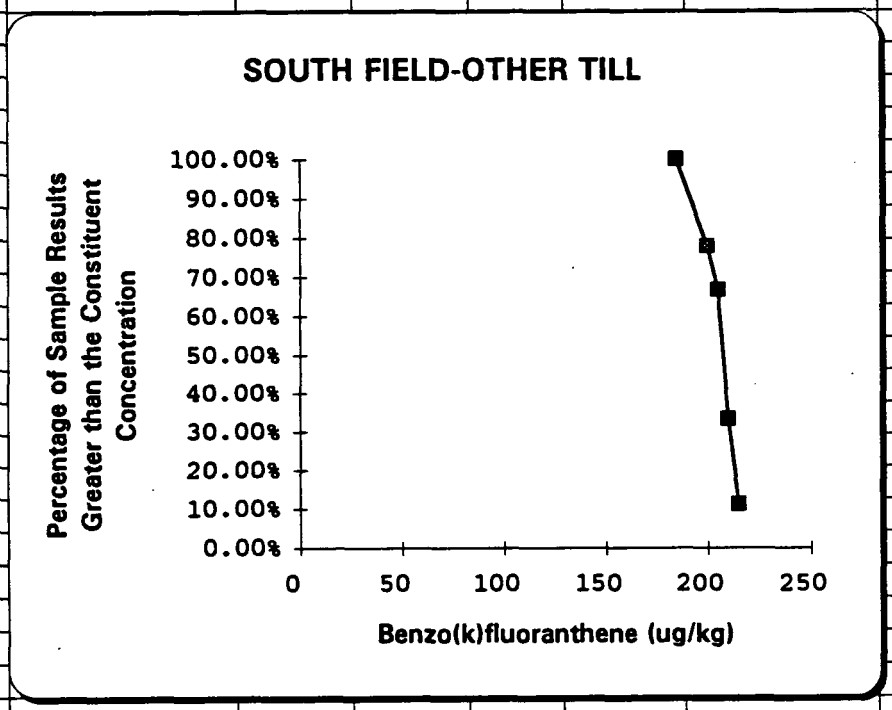

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112584	Beryllium	1978	1	mg/kg	-	1	100.00%
112849	Beryllium	1968	1.6	mg/kg	U	0.8	88.88%
112588	Beryllium	1978	1.5	mg/kg	U	0.75	77.77%
112883	Beryllium	1966	0.73	mg/kg	-	0.73	66.66%
112563	Beryllium	1969	0.66	mg/kg	-	0.66	55.55%
112526	Beryllium	11187	0.65	mg/kg	-	0.65	33.33%
112593	Beryllium	1971	0.65	mg/kg	-	0.65	33.33%
110556	Beryllium	11188	1.2	mg/kg	U	0.6	22.22%
112550	Beryllium	1975	0.58	mg/kg	-	0.58	11.11%
112514	Beryllium	11186	0.53	mg/kg	-	0.53	0.00%

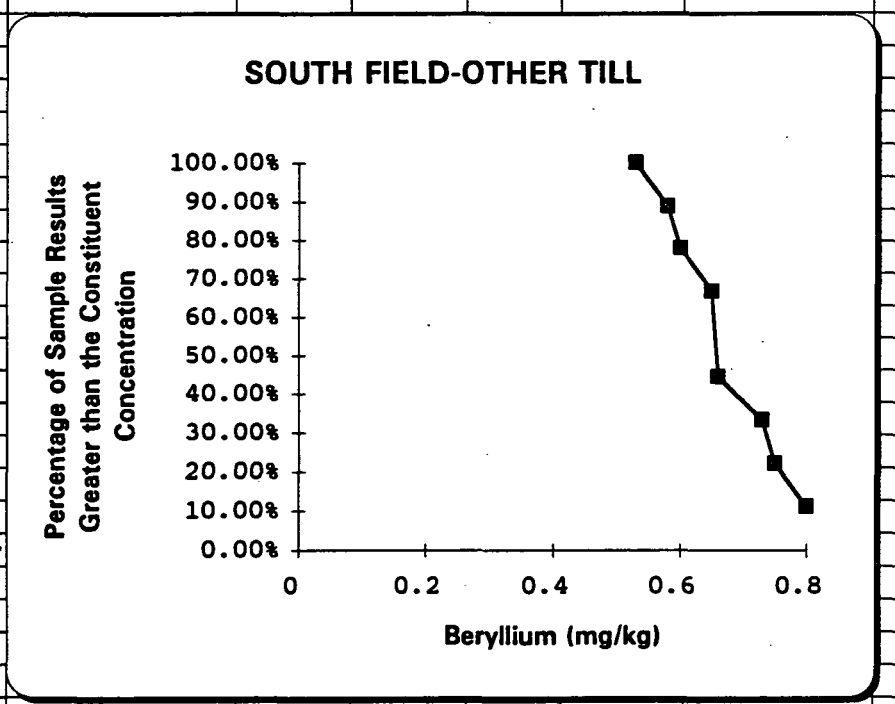

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112593	Cesium-137	1971	0.803	pci/g	UJ	0.4015	100.00%
008024	Cesium-137	1046	0.2	pci/g	UJ	0.1	81.81%
008025	Cesium-137	1046	0.2	pci/g	UJ	0.1	81.81%
112526	Cesium-137	11187	0.097	pci/g	UJ	0.0485	72.72%
112883	Cesium-137	1966	0.094	pci/g	UJ	0.047	63.63%
112588	Cesium-137	1978	0.0849	pci/g	UJ	0.04245	54.54%
112849	Cesium-137	1968	0.0846	pci/g	UJ	0.0423	45.45%
112563	Cesium-137	1969	0.0798	pci/g	UJ	0.0399	36.36%
112550	Cesium-137	1975	0.079	pci/g	UJ	0.0395	27.27%
110556	Cesium-137	11188	0.0778	pci/g	UJ	0.0389	18.18%
112514	Cesium-137	11186	0.077	pci/g	UJ	0.0385	9.09%
112584	Cesium-137	1978	0.0723	pci/g	UJ	0.03615	0.00%

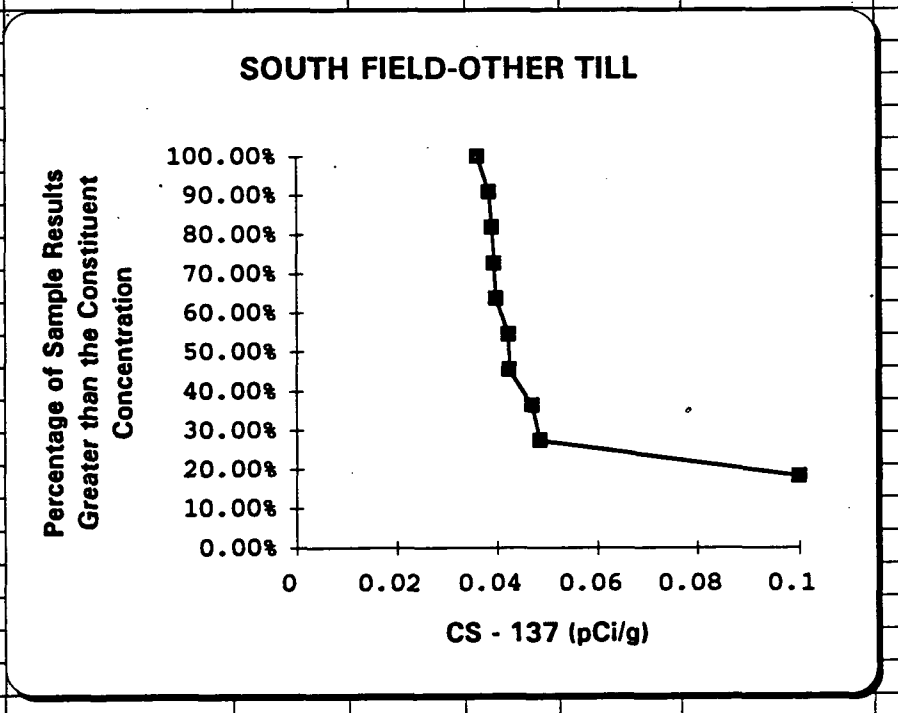

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112584	Dibenzo(a,h)anthracene	1978	450	ug/kg	U	225	100.00%
110556	Dibenzo(a,h)anthracene	11188	430	ug/kg	UJ	215	88.88%
112514	Dibenzo(a,h)anthracene	11186	420	ug/kg	U	210	66.66%
112563	Dibenzo(a,h)anthracene	1969	420	ug/kg	U	210	66.66%
112550	Dibenzo(a,h)anthracene	1975	410	ug/kg	U	205	33.33%
112593	Dibenzo(a,h)anthracene	1971	410	ug/kg	U	205	33.33%
112883	Dibenzo(a,h)anthracene	1966	410	ug/kg	U	205	33.33%
112526	Dibenzo(a,h)anthracene	11187	400	ug/kg	U	200	22.22%
112588	Dibenzo(a,h)anthracene	1978	370	ug/kg	U	185	0.00%
112849	Dibenzo(a,h)anthracene	1968	370	ug/kg	U	185	0.00%

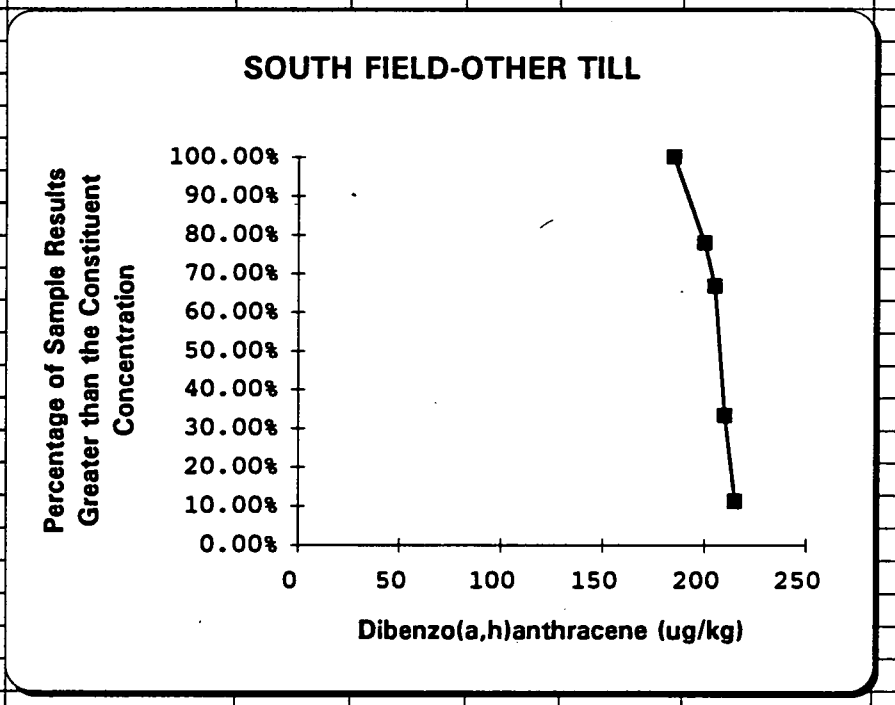

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112514	Dieldrin	11186	4.3	ug/kg	U	2.15	100.00%
110556	Dieldrin	11188	4.2	ug/kg	U	2.1	62.50%
112584	Dieldrin	1978	4.2	ug/kg	U	2.1	62.50%
112883	Dieldrin	1966	4.2	ug/kg	U	2.1	62.50%
112550	Dieldrin	1975	4.1	ug/kg	U	2.05	37.50%
112593	Dieldrin	1971	4.1	ug/kg	U	2.05	37.50%
112526	Dieldrin	11187	4	ug/kg	U	2	25.00%
112588	Dieldrin	1978	3.7	ug/kg	U	1.85	0.00%
112849	Dieldrin	1968	3.7	ug/kg	U	1.85	0.00%

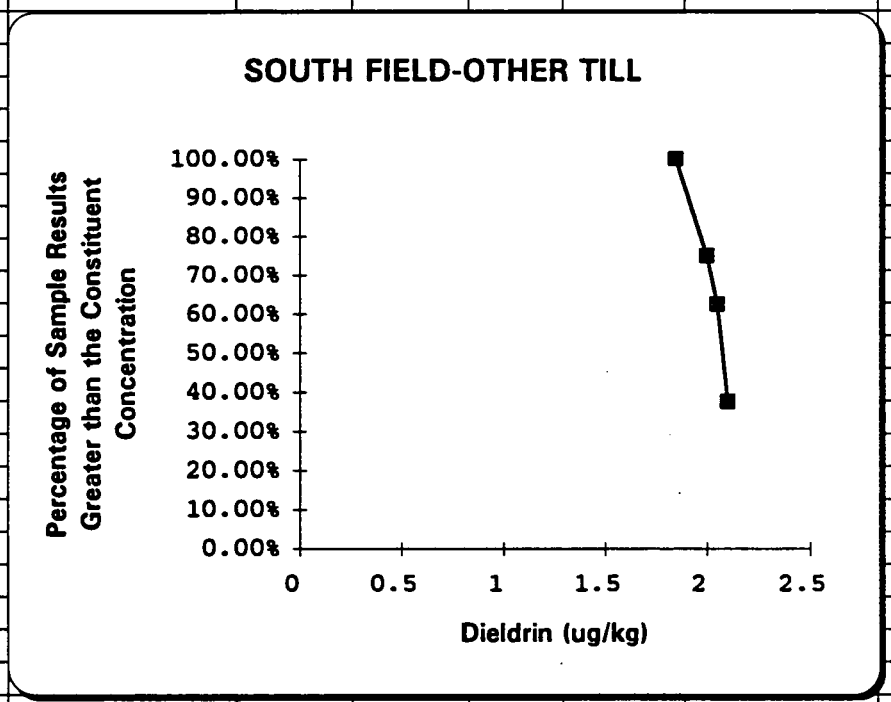

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112584	Indeno(1,2,3-cd)pyrene	1978	450	ug/kg	U	225	100.00%
110556	Indeno(1,2,3-cd)pyrene	11188	430	ug/kg	UJ	215	88.88%
112514	Indeno(1,2,3-cd)pyrene	11186	420	ug/kg	U	210	66.66%
112563	Indeno(1,2,3-cd)pyrene	1969	420	ug/kg	U	210	66.66%
112550	Indeno(1,2,3-cd)pyrene	1975	410	ug/kg	U	205	33.33%
112593	Indeno(1,2,3-cd)pyrene	1971	410	ug/kg	U	205	33.33%
112883	Indeno(1,2,3-cd)pyrene	1966	410	ug/kg	U	205	33.33%
112526	Indeno(1,2,3-cd)pyrene	11187	400	ug/kg	U	200	22.22%
112588	Indeno(1,2,3-cd)pyrene	1978	370	ug/kg	U	185	0.00%
112849	Indeno(1,2,3-cd)pyrene	1968	370	ug/kg	U	185	0.00%

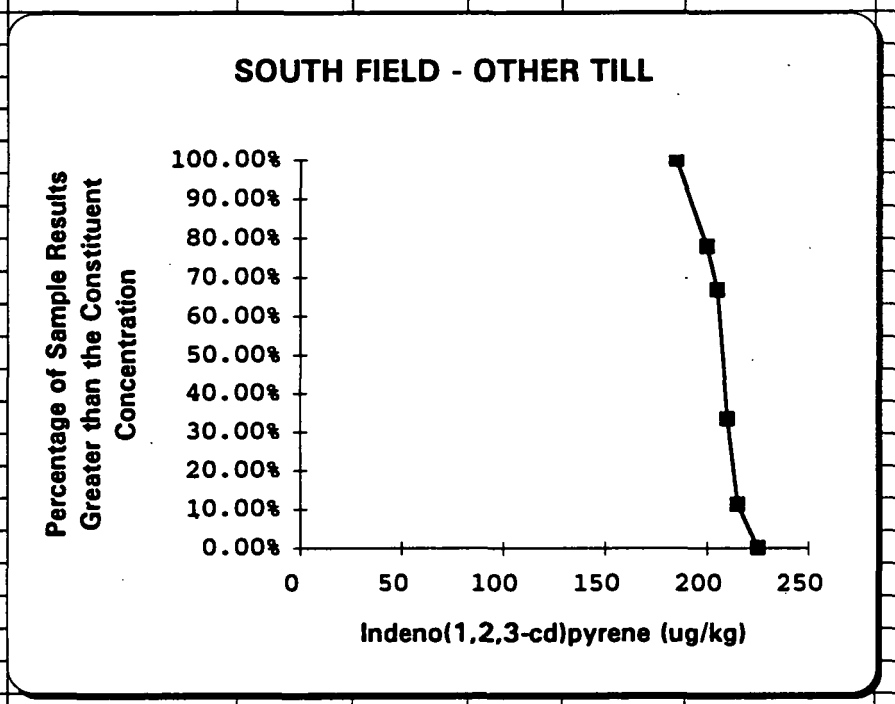

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112526	Neptunium-237	11187	6.53	pci/g	-	6.53	100.00%
112550	Neptunium-237	1975	0.306	pci/g	N	0.306	88.88%
008024	Neptunium-237	1046	0.6	pci/g	U	0.3	66.66%
008025	Neptunium-237	1046	0.6	pci/g	U	0.3	66.66%
112514	Neptunium-237	11186	0.267	pci/g	N	0.267	55.55%
112849	Neptunium-237	1968	0.119	pci/g	N	0.119	44.44%
112883	Neptunium-237	1966	0.07	pci/g	N	0.07	33.33%
112584	Neptunium-237	1978	0.0459	pci/g	N	0.0459	22.22%
110556	Neptunium-237	11188	0.0374	pci/g	N	0.0374	11.11%
112563	Neptunium-237	1969	0.0338	pci/g	N	0.0338	0.00%

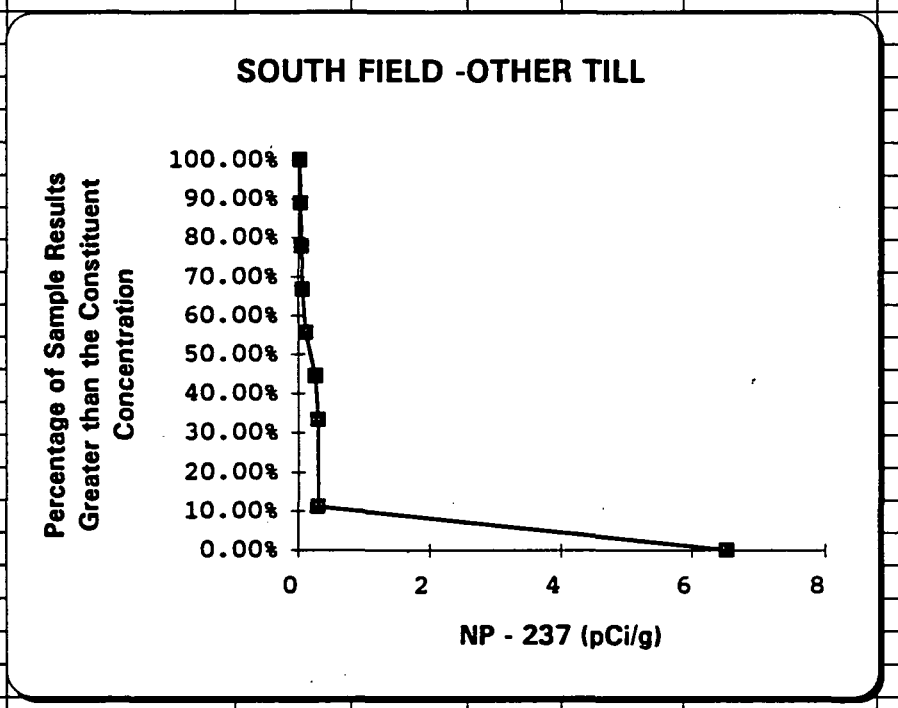

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112883	Radium-226	1966	1.26	pci/g	-	1.26	100.00%
112550	Radium-226	1975	1.12	pci/g	-	1.12	81.81%
112584	Radium-226	1978	1.12	pci/g	-	1.12	81.81%
112526	Radium-226	11187	0.971	pci/g	-	0.971	72.72%
112514	Radium-226	11186	0.948	pci/g	-	0.948	63.63%
112563	Radium-226	1969	0.927	pci/g	-	0.927	54.54%
112593	Radium-226	1971	0.9	pci/g	-	0.9	45.45%
112588	Radium-226	1978	0.872	pci/g	-	0.872	36.36%
112849	Radium-226	1968	0.863	pci/g	-	0.863	27.27%
110556	Radium-226	11188	0.775	pci/g	-	0.775	18.18%
008025	Radium-226	1046	0.6	pci/g	J	0.6	9.09%
008024	Radium-226	1046	0.3	pci/g	UJ	0.15	0.00%

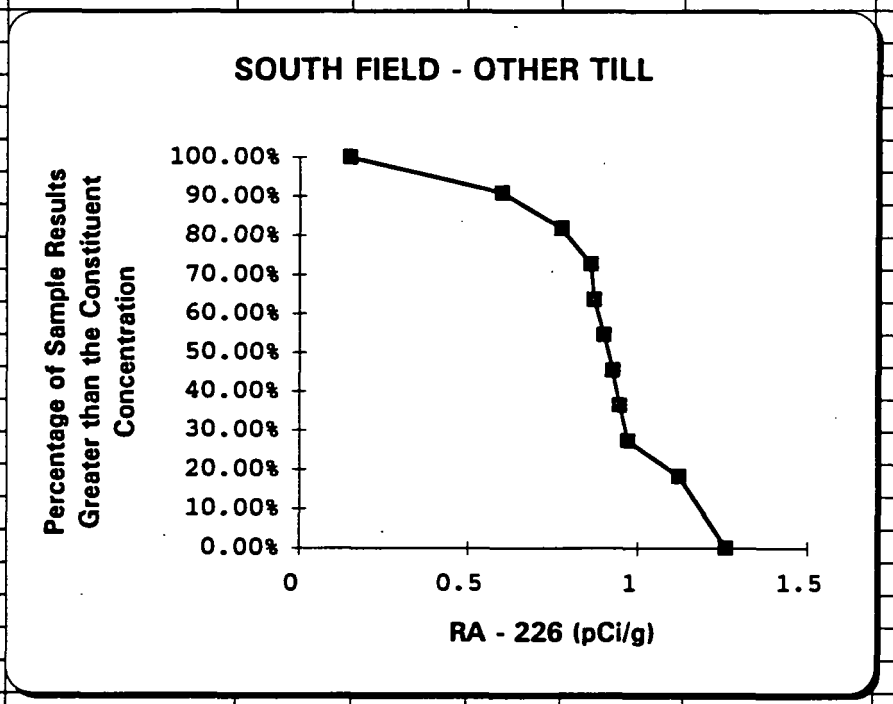

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112584	Radium-228	1978	1.41	pci/g	-	1.41	100.00%
112550	Radium-228	1975	1.08	pci/g	-	1.08	90.90%
112588	Radium-228	1978	0.984	pci/g	-	0.984	81.81%
112593	Radium-228	1971	0.965	pci/g	-	0.965	72.72%
112526	Radium-228	11187	0.934	pci/g	-	0.934	63.63%
112883	Radium-228	1966	0.913	pci/g	-	0.913	54.54%
112514	Radium-228	11186	0.876	pci/g	-	0.876	45.45%
110556	Radium-228	11188	0.742	pci/g	-	0.742	36.36%
112849	Radium-228	1968	0.705	pci/g	-	0.705	27.27%
112563	Radium-228	1969	0.646	pci/g	-	0.646	18.18%
008024	Radium-228	1046	0.5	pci/g	J	0.5	9.09%
008025	Radium-228	1046	0.5	pci/g	UJ	0.25	0.00%

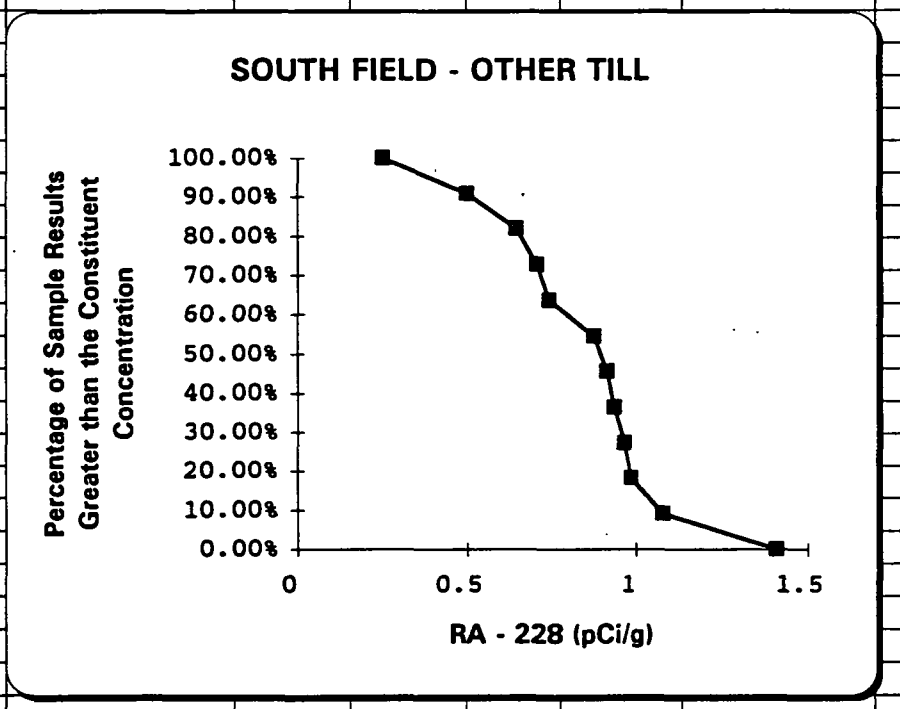

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112593	Strontium-90	1971	1.78	pci/g	J	1.78	100.00%
112883	Strontium-90	1966	0.963	pci/g	J	0.963	90.90%
112526	Strontium-90	11187	0.892	pci/g	J	0.892	81.80%
112514	Strontium-90	11186	0.889	pci/g	J	0.889	72.70%
110556	Strontium-90	11188	0.789	pci/g	J	0.789	63.60%
112563	Strontium-90	1969	0.666	pci/g	J	0.666	54.50%
112584	Strontium-90	1978	0.57	pci/g	J	0.57	45.40%
112588	Strontium-90	1978	0.537	pci/g	J	0.537	36.30%
112550	Strontium-90	1975	0.586	pci/g	UJ	0.293	27.20%
008024	Strontium-90	1046	0.5	pci/g	U	0.25	9.00%
008025	Strontium-90	1046	0.5	pci/g	U	0.25	9.00%
112849	Strontium-90	1968	0.371	pci/g	UJ	0.1855	.00%

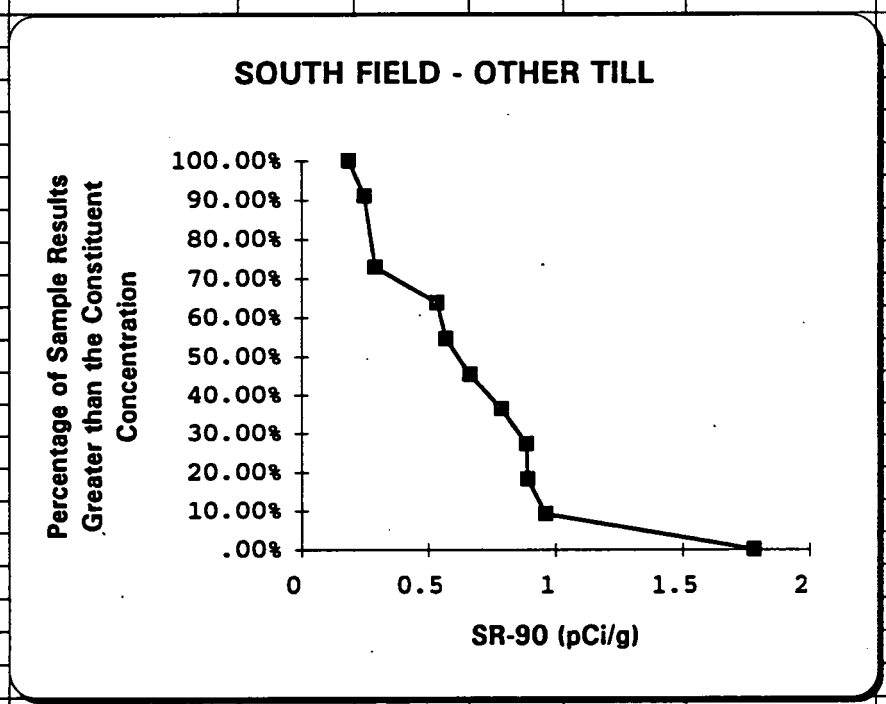

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112526	Technetium-99	11187	0.443	pci/g	UJ	0.2215	100.00%
112514	Technetium-99	11186	0.4	pci/g	UJ	0.2	88.88%
112849	Technetium-99	1968	0.386	pci/g	UJ	0.193	77.77%
112883	Technetium-99	1966	0.377	pci/g	UJ	0.1885	66.66%
112550	Technetium-99	1975	0.368	pci/g	UJ	0.184	55.55%
112588	Technetium-99	1978	0.367	pci/g	UJ	0.1835	44.44%
112584	Technetium-99	1978	0.35	pci/g	UJ	0.175	33.33%
112563	Technetium-99	1969	0.346	pci/g	UJ	0.173	22.22%
110556	Technetium-99	11188	0.344	pci/g	UJ	0.172	11.11%
112593	Technetium-99	1971	0.336	pci/g	UJ	0.168	0.00%

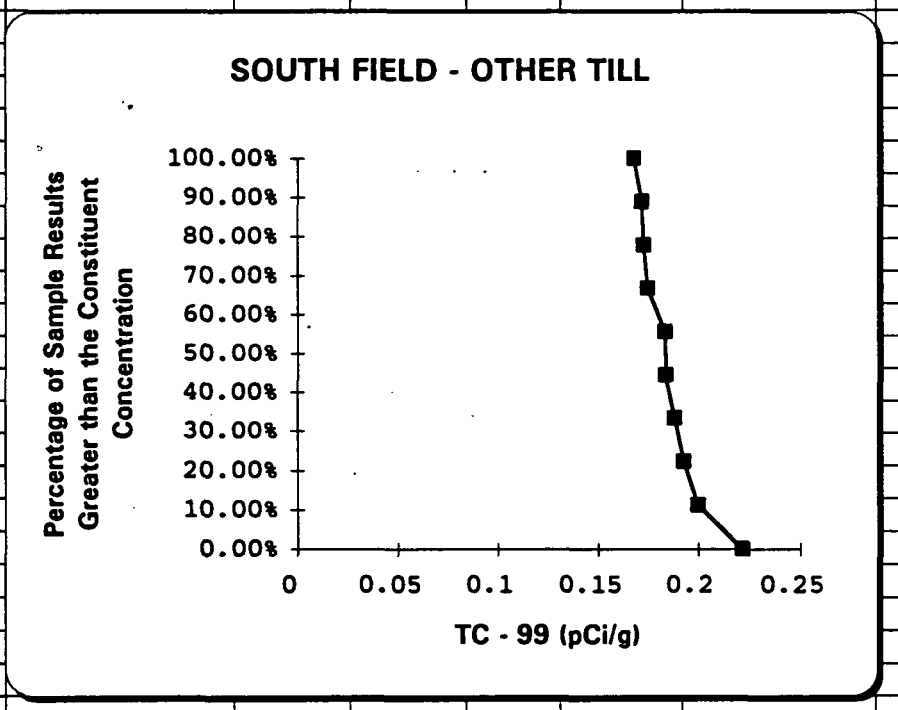

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112514	Thorium-228	11186	0.875	pci/g	-	0.875	100.00%
112550	Thorium-228	1975	0.857	pci/g	-	0.857	83.33%
112526	Thorium-228	11187	0.745	pci/g	-	0.745	66.66%
110556	Thorium-228	11188	0.55	pci/g	J	0.55	50.00%
112849	Thorium-228	1968	0.524	pci/g	J	0.524	33.33%
008025	Thorium-228	1046	0.6	pci/g	U	0.3	16.66%
008024	Thorium-228	1046	0.5	pci/g	U	0.25	0.00%

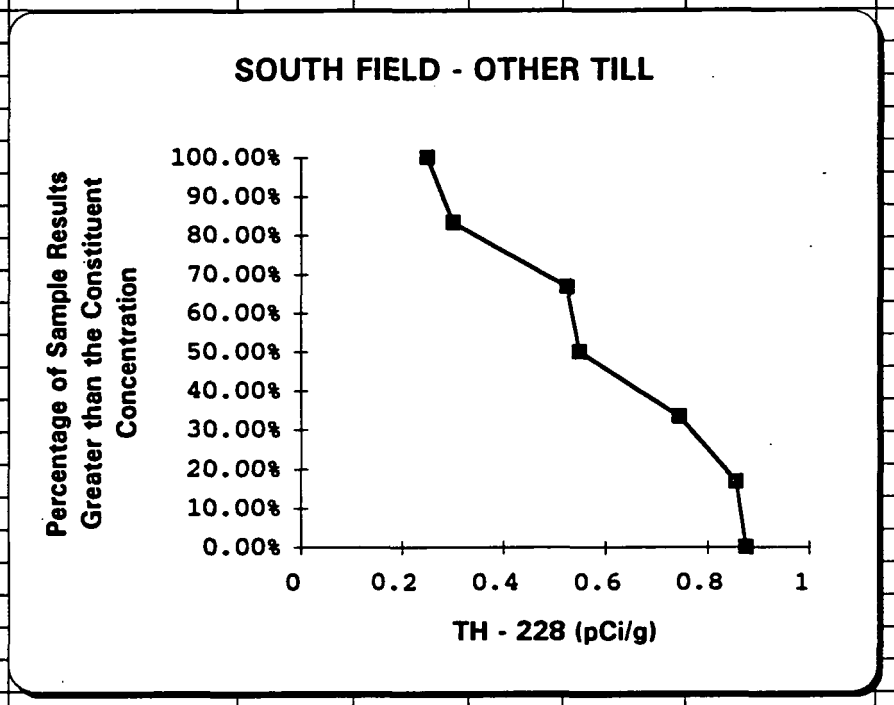

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112514	Thorium-230	11186	1.1	pci/g	-	1.1	83.33%
112550	Thorium-230	1975	1.1	pci/g	-	1.1	83.33%
112526	Thorium-230	11187	1.03	pci/g	-	1.03	66.66%
110556	Thorium-230	11188	1.02	pci/g	-	1.02	50.00%
008024	Thorium-230	1046	1	pci/g	J	1	33.33%
112849	Thorium-230	1968	0.856	pci/g	J	0.856	16.66%
008025	Thorium-230	1046	0.8	pci/g	J	0.8	0.00%

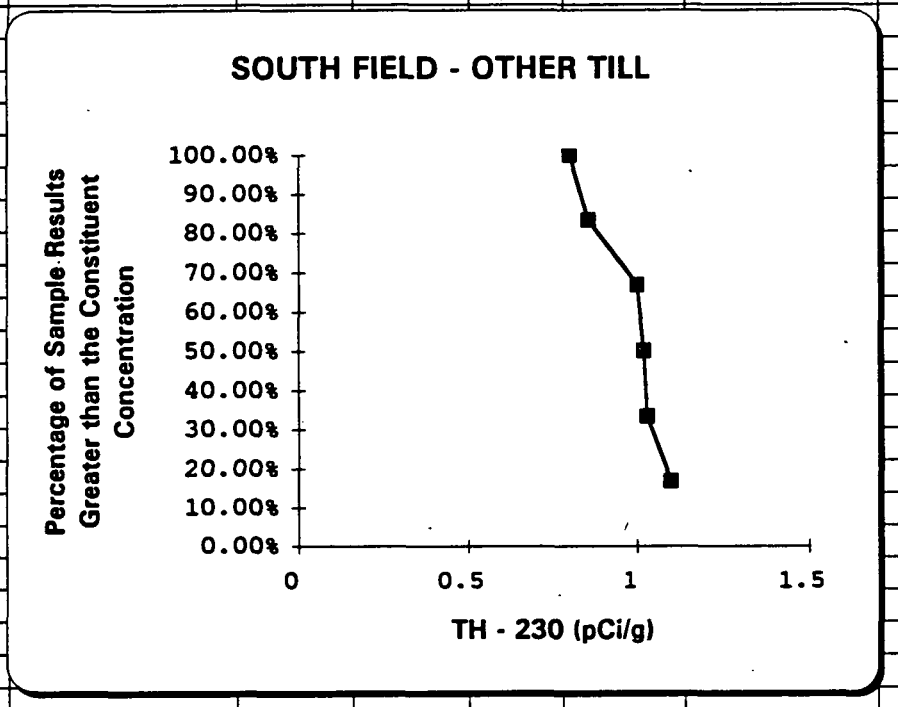

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112514	Thorium-232	11186	0.792	pci/g	-	0.792	100.00%
112550	Thorium-232	1975	0.786	pci/g	-	0.786	83.33%
112526	Thorium-232	11187	0.716	pci/g	-	0.716	66.66%
112849	Thorium-232	1968	0.568	pci/g	J	0.568	50.00%
110556	Thorium-232	11188	0.548	pci/g	J	0.548	33.33%
008024	Thorium-232	1046	0.6	pci/g	U	0.3	0.00%
008025	Thorium-232	1046	0.6	pci/g	U	0.3	0.00%

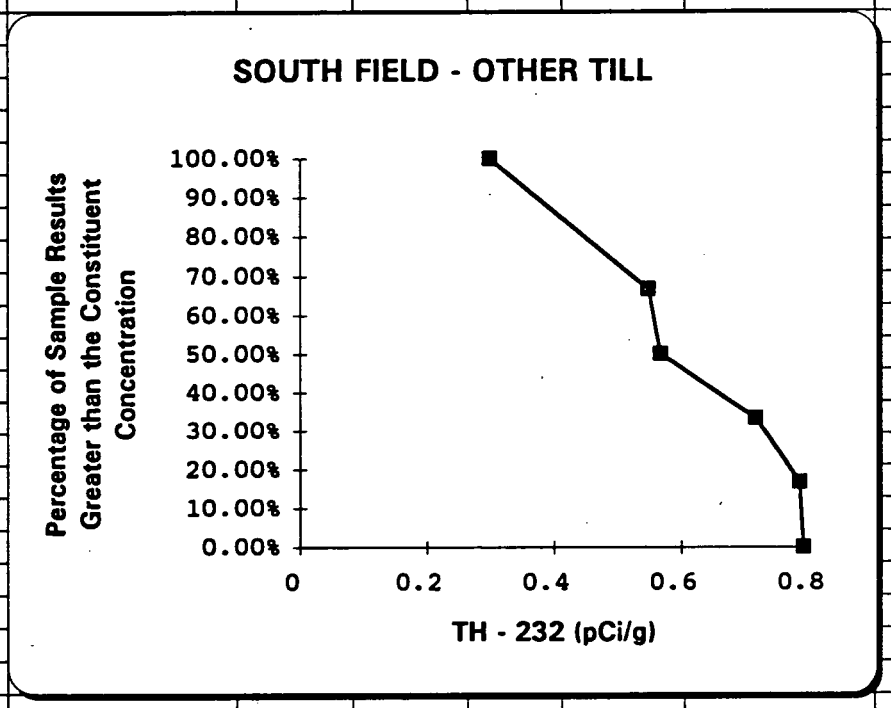

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112514	Uranium, Total	11186	17.5	mg/kg	-	17.5	100.00%
112883	Uranium, Total	1966	12.6	mg/kg	-	12.6	88.88%
112526	Uranium, Total	11187	12.3	mg/kg	-	12.3	77.77%
112849	Uranium, Total	1968	12.2	mg/kg	-	12.2	66.66%
112584	Uranium, Total	1978	5.76	mg/kg	-	5.76	55.55%
112593	Uranium, Total	1971	5.68	mg/kg	-	5.68	44.44%
112550	Uranium, Total	1975	4.82	mg/kg	-	4.82	33.33%
112588	Uranium, Total	1978	4.74	mg/kg	-	4.74	22.22%
112563	Uranium, Total	1969	3.47	mg/kg	-	3.47	11.11%
110556	Uranium, Total	11188	2.77	mg/kg	U	1.385	0.00%

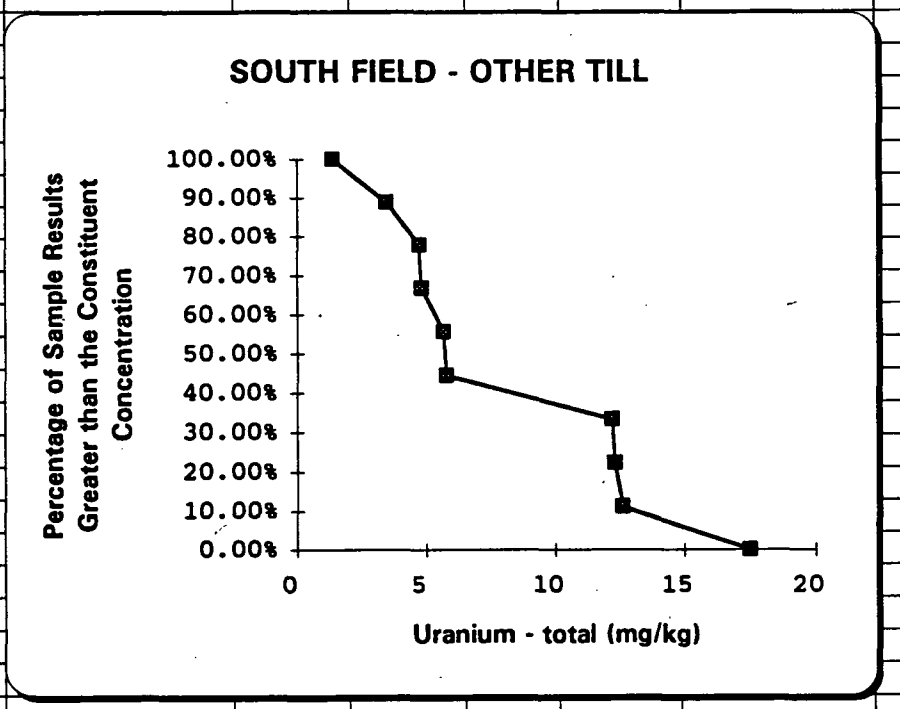

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112526	Uranium-234	11187	3.51	pci/g	-	3.51	100.00%
112514	Uranium-234	11186	2.31	pci/g	-	2.31	90.90%
112550	Uranium-234	1975	0.977	pci/g	-	0.977	81.81%
112588	Uranium-234	1978	0.971	pci/g	-	0.971	72.72%
112849	Uranium-234	1968	0.969	pci/g	-	0.969	63.63%
112593	Uranium-234	1971	0.949	pci/g	-	0.949	54.54%
112883	Uranium-234	1966	0.884	pci/g	-	0.884	45.45%
110556	Uranium-234	11188	0.81	pci/g	-	0.81	36.36%
112584	Uranium-234	1978	0.757	pci/g	-	0.757	27.27%
112563	Uranium-234	1969	0.643	pci/g	-	0.643	18.18%
008024	Uranium-234	1046	0.6	pci/g	J	0.6	9.09%
008025	Uranium-234	1046	0.6	pci/g	U	0.3	0.00%

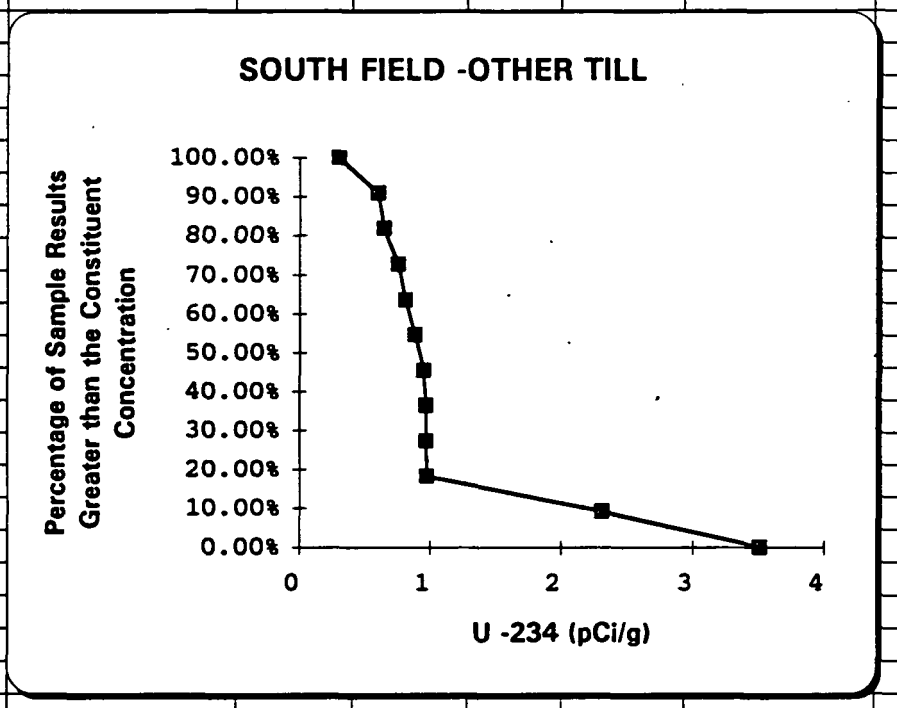

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
008024	Uranium-235/236	1046	0.6	pci/g	U	0.3	90.90%
008025	Uranium-235/236	1046	0.6	pci/g	U	0.3	90.90%
112514	Uranium-235/236	11186	0.153	pci/g	J	0.153	81.81%
112526	Uranium-235/236	11187	0.113	pci/g	J	0.113	72.72%
112588	Uranium-235/236	1978	0.0723	pci/g	J	0.0723	63.63%
112849	Uranium-235/236	1968	0.0491	pci/g	J	0.0491	54.54%
112550	Uranium-235/236	1975	0.048	pci/g	J	0.048	45.45%
112593	Uranium-235/236	1971	0.0431	pci/g	J	0.0431	36.36%
112883	Uranium-235/236	1966	0.037	pci/g	J	0.037	27.27%
110556	Uranium-235/236	11188	0.0281	pci/g	J	0.0281	18.18%
112584	Uranium-235/236	1978	0.0242	pci/g	J	0.0242	9.09%
112563	Uranium-235/236	1969	0.0196	pci/g	J	0.0196	0.00%

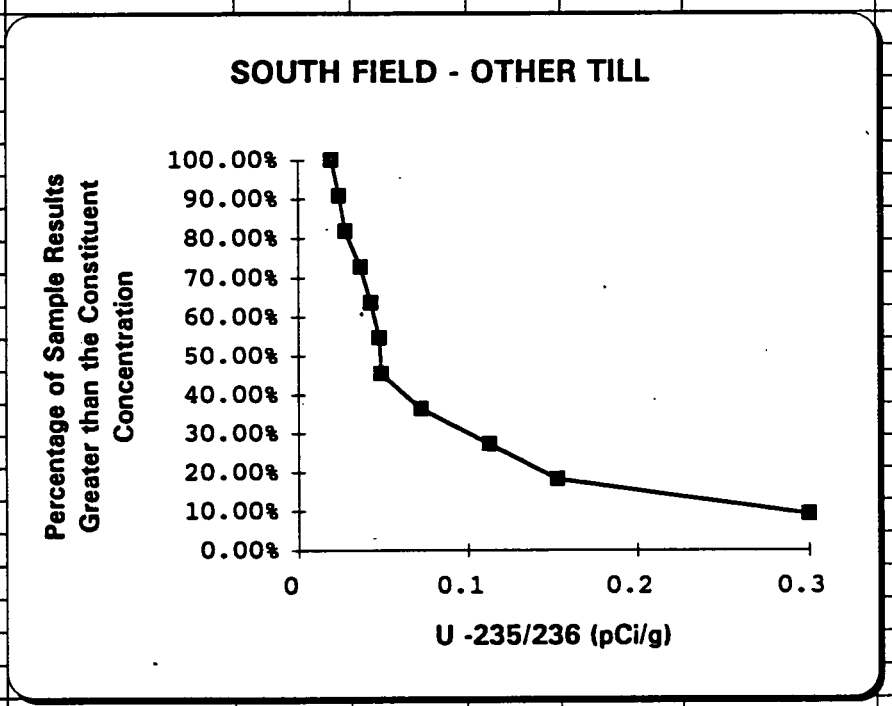

TABLE A.5-17
SOUTH FIELD - OTHER TILL (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112526	Uranium-238	11187	4.55	pci/g	-	4.55	100.00%
112514	Uranium-238	11186	2.73	pci/g	-	2.73	90.90%
112550	Uranium-238	1975	1.04	pci/g	-	1.04	72.72%
112593	Uranium-238	1971	1.04	pci/g	-	1.04	72.72%
112883	Uranium-238	1966	1.01	pci/g	-	1.01	63.63%
112849	Uranium-238	1968	0.993	pci/g	-	0.993	54.54%
112588	Uranium-238	1978	0.897	pci/g	-	0.897	45.45%
112563	Uranium-238	1969	0.767	pci/g	-	0.767	36.36%
110556	Uranium-238	11188	0.74	pci/g	-	0.74	27.27%
008024	Uranium-238	1046	0.7	pci/g	-	0.7	18.18%
112584	Uranium-238	1978	0.385	pci/g	J	0.385	9.09%
008025	Uranium-238	1046	0.6	pci/g	U	0.3	0.00%

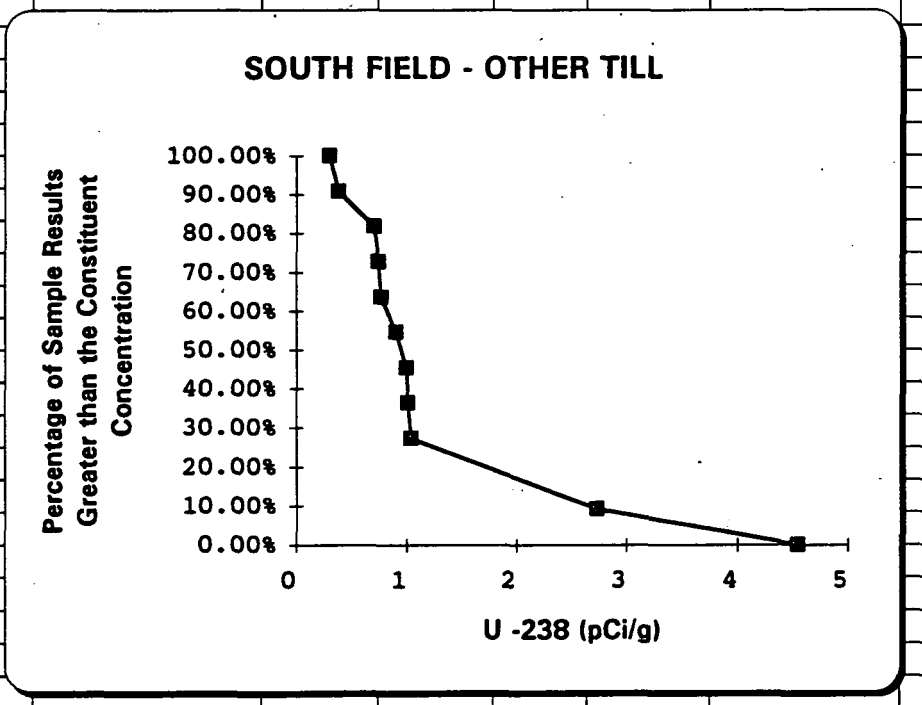

TABLE A.5-18
SOUTH FIELD - TILL (outsided battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results
055413	Cesium-137	1517	0.2	pci/g	J	0.2
055371	Neptunium-237	1516	0.6	pci/g	J	0.6
055413	Neptunium-237	1517	0.6	pci/g	J	0.6
055454	Neptunium-237	1518	0.6	pci/g	J	0.6
032622	Neptunium-237	2385	0.6	pci/g	U	0.3
055413	Radium-226	1517	0.559	pci/g	J	0.559
055413	Radium-228	1517	0.5	pci/g	J	0.5
032622	Strontium-90	2385	1.34	pci/g	-	1.34
055371	Strontium-90	1516	0.5	pci/g	-	0.5
055413	Strontium-90	1517	0.5	pci/g	-	0.5
055454	Strontium-90	1518	0.5	pci/g	-	0.5
055371	Technetium-99	1516	0.9	pci/g	J	0.9
055413	Technetium-99	1517	0.9	pci/g	J	0.9
055454	Technetium-99	1518	0.9	pci/g	J	0.9
032622	Technetium-99	2385	0.9	pci/g	U	0.45
055454	Thorium-228	1518	1.23	pci/g	J	1.23
055371	Thorium-228	1516	1.01	pci/g	-	1.01
032622	Thorium-228	2385	0.724	pci/g	-	0.724
055413	Thorium-228	1517	0.6	pci/g	-	0.6
055371	Thorium-230	1516	5.59	pci/g	-	5.59
055454	Thorium-230	1518	1.63	pci/g	J	1.63
055413	Thorium-230	1517	1.11	pci/g	-	1.11
032622	Thorium-230	2385	0.736	pci/g	-	0.736
055371	Thorium-232	1516	1.11	pci/g	-	1.11
032622	Thorium-232	2385	0.651	pci/g	-	0.651
055454	Thorium-232	1518	0.632	pci/g	J	0.632
055413	Thorium-232	1517	0.6	pci/g	-	0.6
055413	Uranium, Total	1517	2.95	mg/kg	J	2.95
055371	Uranium-234	1516	4.64	pci/g	J	4.64
055454	Uranium-234	1518	1.2	pci/g	J	1.2
055413	Uranium-234	1517	1.09	pci/g	J	1.09
032622	Uranium-234	2385	0.981	pci/g	-	0.981
055371	Uranium-235/236	1516	0.6	pci/g	J	0.6
055413	Uranium-235/236	1517	0.6	pci/g	J	0.6
055454	Uranium-235/236	1518	0.6	pci/g	J	0.6
032622	Uranium-235/236	2385	0.6	pci/g	U	0.3
055371	Uranium-238	1516	7	pci/g	J	7
055413	Uranium-238	1517	1.45	pci/g	J	1.45
055454	Uranium-238	1518	1.24	pci/g	J	1.24
032622	Uranium-238	2385	0.736	pci/g	-	0.736

TABLE A.5-19
SOUTH FIELD - GMA (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
112685	Aroclor-1254	1964	36	ug/kg	U	18
112763	Aroclor-1254	1965	35	ug/kg	U	17.5
112685	Aroclor-1260	1964	36	ug/kg	U	18
112763	Aroclor-1260	1965	35	ug/kg	U	17.5
112685	Arsenic	1964	6.2	mg/kg	-	6.2
112763	Arsenic	1965	4.1	mg/kg	-	4.1
112685	Benzo(a)anthracene	1964	350	ug/kg	U	175
112763	Benzo(a)anthracene	1965	350	ug/kg	U	175
112685	Benzo(a)pyrene	1964	350	ug/kg	U	175
112763	Benzo(a)pyrene	1965	350	ug/kg	U	175
112685	Benzo(b)fluoranthene	1964	350	ug/kg	U	175
112763	Benzo(b)fluoranthene	1965	350	ug/kg	U	175
112685	Benzo(k)fluoranthene	1964	350	ug/kg	U	175
112763	Benzo(k)fluoranthene	1965	350	ug/kg	U	175
112763	Beryllium	1965	1	mg/kg	U	0.5
112685	Beryllium	1964	0.42	mg/kg	U	0.21
112763	Cesium-137	1965	0.096	pci/g	UJ	0.048
112685	Cesium-137	1964	0.09	pci/g	UJ	0.045
112685	Dibenzo(a,h)anthracene	1964	350	ug/kg	U	175
112763	Dibenzo(a,h)anthracene	1965	350	ug/kg	U	175
112685	Dieldrin	1964	3.6	ug/kg	U	1.8
112763	Dieldrin	1965	3.5	ug/kg	U	1.75
112685	Indeno(1,2,3-cd)pyrene	1964	350	ug/kg	U	175
112763	Indeno(1,2,3-cd)pyrene	1965	350	ug/kg	U	175
008950	Neptunium-237	2046	0.6	pci/g	U	0.3
112763	Neptunium-237	1965	0.044	pci/g	U	0.022
112685	Neptunium-237	1964	0.04	pci/g	U	0.02
112763	Radium-226	1965	0.676	pci/g	-	0.676
112685	Radium-226	1964	0.6	pci/g	-	0.6
112763	Radium-228	1965	0.461	pci/g	J	0.461
112685	Radium-228	1964	0.44	pci/g	J	0.44
112685	Strontium-90	1964	0.48	pci/g	UJ	0.24
112763	Strontium-90	1965	0.385	pci/g	UJ	0.1925
008950	Strontium-90	2046	0.7	pci/g	-	0.7
008950	Technetium-99	2046	0.9	pci/g	U	0.45
112685	Technetium-99	1964	0.44	pci/g	UJ	0.22
112763	Technetium-99	1965	0.403	pci/g	UJ	0.2015
112685	Thorium-228	1964	0.33	pci/g	J	0.33
008950	Thorium-228	2046	0.6	pci/g	U	0.3
112685	Thorium-230	1964	1.37	pci/g	-	1.37
008950	Thorium-230	2046	0.9	pci/g	-	0.9
112685	Thorium-232	1964	0.33	pci/g	J	0.33
008950	Thorium-232	2046	0.6	pci/g	U	0.3
112685	Uranium, Total	1964	10.3	mg/kg	J	10.3
112763	Uranium, Total	1965	9.81	mg/kg	-	9.81
112763	Uranium-234	1965	0.585	pci/g	J	0.585
112685	Uranium-234	1964	0.57	pci/g	J	0.57
008950	Uranium-234	2046	0.6	pci/g	U	0.3
008950	Uranium-235/236	2046	0.6	pci/g	U	0.3

TABLE A.5-19
SOUTH FIELD - GMA (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
112685	Uranium-235/236	1964	0.02	pci/g	J	0.02
112763	Uranium-235/236	1965	0.02	pci/g	J	0.02
112685	Uranium-238	1964	0.66	pci/g	-	0.66
112763	Uranium-238	1965	0.588	pci/g	J	0.588
008950	Uranium-238	2046	0.6	pci/g	U	0.3

TABLE A.5-20
SOUTH FIELD - GMA (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055383	Radium-226	1516	0.862	pci/g	J	0.862	100.00%
055456	Radium-226	1518	0.67	pci/g	J	0.67	95.45%
032639	Radium-226	2385	0.65	pci/g	J	0.65	90.90%
055389	Radium-226	1516	0.606	pci/g	J	0.606	86.36%
055431	Radium-226	1517	0.56	pci/g	J	0.56	81.81%
055405	Radium-226	1516	0.539	pci/g	J	0.539	72.72%
055472	Radium-226	1518	0.539	pci/g	J	0.539	72.72%
055462	Radium-226	1518	0.537	pci/g	J	0.537	68.18%
055449	Radium-226	1517	0.523	pci/g	J	0.523	63.63%
055433	Radium-226	1517	0.52	pci/g	J	0.52	59.09%
055399	Radium-226	1516	0.514	pci/g	J	0.514	54.54%
055478	Radium-226	1518	0.51	pci/g	J	0.51	45.45%
055487	Radium-226	1518	0.51	pci/g	J	0.51	45.45%
055377	Radium-226	1516	0.496	pci/g	J	0.496	40.90%
055427	Radium-226	1517	0.48	pci/g	J	0.48	36.36%
055425	Radium-226	1517	0.45	pci/g	J	0.45	31.81%
055443	Radium-226	1517	0.44	pci/g	J	0.44	27.27%
055474	Radium-226	1518	0.43	pci/g	J	0.43	18.18%
055491	Radium-226	1518	0.43	pci/g	J	0.43	18.18%
055440	Radium-226	1517	0.41	pci/g	J	0.41	13.63%
055393	Radium-226	1516	0.405	pci/g	J	0.405	9.09%
055429	Radium-226	1517	0.39	pci/g	J	0.39	4.54%
055483	Radium-226	1518	0.5	pci/g	UJ	0.25	0.00%

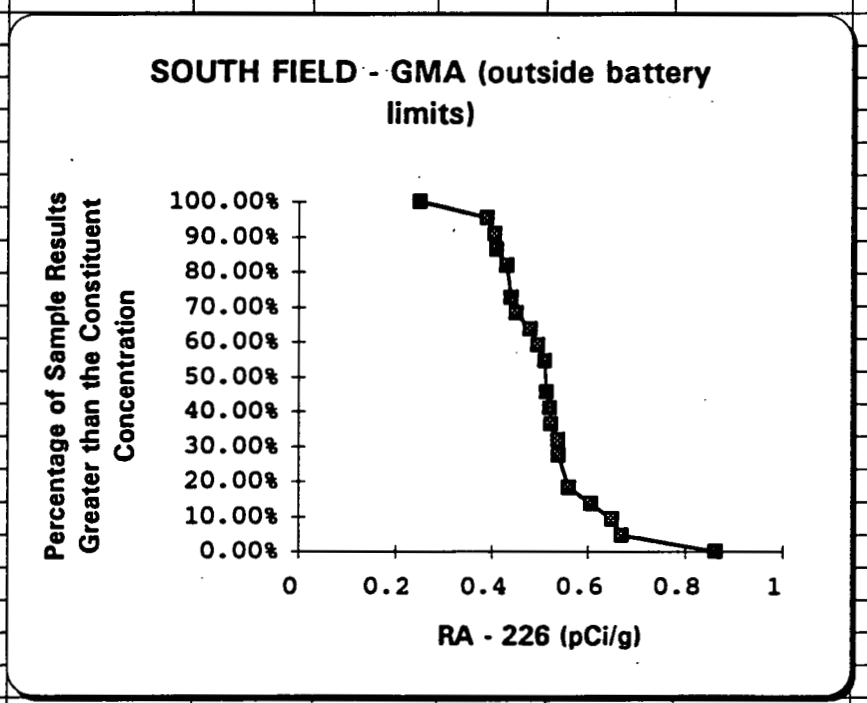

TABLE A.5-20
SOUTH FIELD - GMA (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055476	Thorium-228	1518	5.92	pci/g	-	5.92	100.00%
055446	Thorium-228	1517	1.93	pci/g	-	1.93	97.95%
055472	Thorium-228	1518	1.53	pci/g	J	1.53	95.91%
055401	Thorium-228	1516	0.743	pci/g	J	0.743	93.87%
055489	Thorium-228	1518	0.74	pci/g	J	0.74	89.79%
055491	Thorium-228	1518	0.74	pci/g	J	0.74	89.79%
055466	Thorium-228	1518	0.737	pci/g	J	0.737	87.75%
055399	Thorium-228	1516	0.726	pci/g	J	0.726	85.71%
055375	Thorium-228	1516	0.657	pci/g	-	0.657	83.67%
055468	Thorium-228	1518	0.642	pci/g	J	0.642	81.63%
055373	Thorium-228	1516	0.6	pci/g	-	0.6	18.36%
055377	Thorium-228	1516	0.6	pci/g	-	0.6	18.36%
055379	Thorium-228	1516	0.6	pci/g	-	0.6	18.36%
055383	Thorium-228	1516	0.6	pci/g	-	0.6	18.36%
055387	Thorium-228	1516	0.6	pci/g	-	0.6	18.36%
055389	Thorium-228	1516	0.6	pci/g	-	0.6	18.36%
055391	Thorium-228	1516	0.6	pci/g	-	0.6	18.36%
055393	Thorium-228	1516	0.6	pci/g	-	0.6	18.36%
055416	Thorium-228	1517	0.6	pci/g	-	0.6	18.36%
055419	Thorium-228	1517	0.6	pci/g	-	0.6	18.36%
055422	Thorium-228	1517	0.6	pci/g	-	0.6	18.36%
055425	Thorium-228	1517	0.6	pci/g	-	0.6	18.36%
055427	Thorium-228	1517	0.6	pci/g	-	0.6	18.36%
055429	Thorium-228	1517	0.6	pci/g	-	0.6	18.36%
055431	Thorium-228	1517	0.6	pci/g	-	0.6	18.36%
055433	Thorium-228	1517	0.6	pci/g	-	0.6	18.36%
055437	Thorium-228	1517	0.6	pci/g	-	0.6	18.36%
055440	Thorium-228	1517	0.6	pci/g	-	0.6	18.36%
055443	Thorium-228	1517	0.6	pci/g	-	0.6	18.36%
055449	Thorium-228	1517	0.6	pci/g	-	0.6	18.36%
055451	Thorium-228	1517	0.6	pci/g	-	0.6	18.36%
055395	Thorium-228	1516	0.6	pci/g	J	0.6	18.36%
055405	Thorium-228	1516	0.6	pci/g	J	0.6	18.36%
055407	Thorium-228	1516	0.6	pci/g	J	0.6	18.36%
055409	Thorium-228	1516	0.6	pci/g	J	0.6	18.36%
055456	Thorium-228	1518	0.6	pci/g	J	0.6	18.36%
055458	Thorium-228	1518	0.6	pci/g	J	0.6	18.36%
055460	Thorium-228	1518	0.6	pci/g	J	0.6	18.36%
055462	Thorium-228	1518	0.6	pci/g	J	0.6	18.36%
055464	Thorium-228	1518	0.6	pci/g	J	0.6	18.36%
055470	Thorium-228	1518	0.6	pci/g	J	0.6	18.36%
032639	Thorium-228	2385	0.6	pci/g	U	0.3	0.00%
055474	Thorium-228	1518	0.6	pci/g	U	0.3	0.00%
055478	Thorium-228	1518	0.6	pci/g	U	0.3	0.00%
055481	Thorium-228	1518	0.6	pci/g	U	0.3	0.00%
055483	Thorium-228	1518	0.6	pci/g	U	0.3	0.00%
055485	Thorium-228	1518	0.6	pci/g	U	0.3	0.00%

TABLE A.5-20
SOUTH FIELD - GMA (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055487	Thorium-228	1518	0.6	pci/g	U	0.3	0.00%
055493	Thorium-228	1518	0.6	pci/g	U	0.3	0.00%
032725	Thorium-228	3385	0.6	pci/g	U	0.3	0.00%

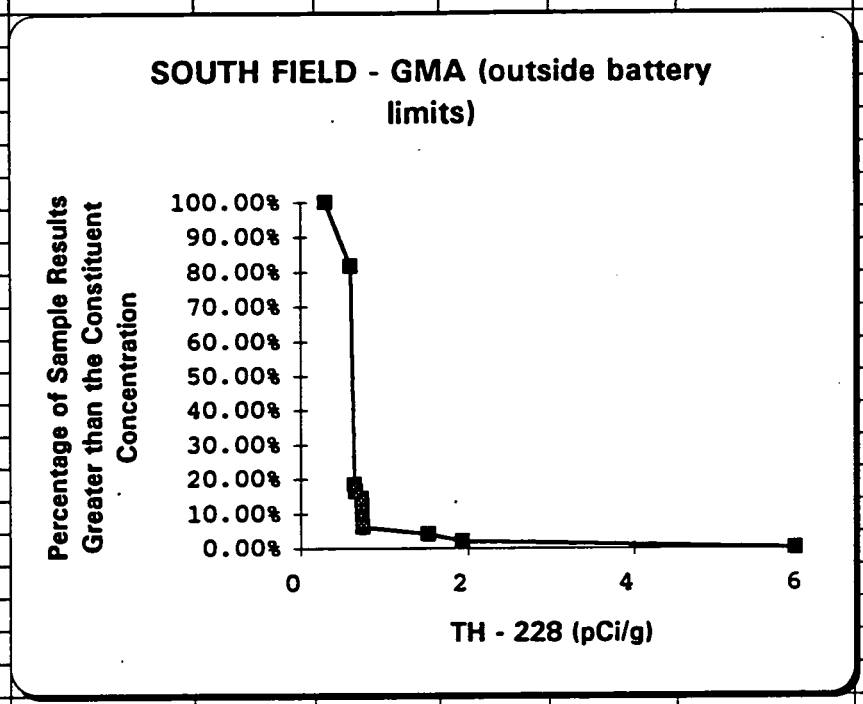

TABLE A.5-20
SOUTH FIELD - GMA (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055373	Thorium-230	1516	3.07	pci/g	-	3.07	100.00%
055476	Thorium-230	1518	3.01	pci/g	J	3.01	97.95%
055437	Thorium-230	1517	2.02	pci/g	-	2.02	95.91%
055401	Thorium-230	1516	1.61	pci/g	J	1.61	93.87%
055383	Thorium-230	1516	1.37	pci/g	J	1.37	91.83%
055399	Thorium-230	1516	1.23	pci/g	J	1.23	87.75%
055466	Thorium-230	1518	1.23	pci/g	J	1.23	87.75%
055468	Thorium-230	1518	1.17	pci/g	J	1.17	85.71%
055464	Thorium-230	1518	1.13	pci/g	J	1.13	81.63%
055493	Thorium-230	1518	1.13	pci/g	J	1.13	81.63%
055478	Thorium-230	1518	1.07	pci/g	J	1.07	79.59%
055485	Thorium-230	1518	1.06	pci/g	J	1.06	77.55%
055379	Thorium-230	1516	1.03	pci/g	J	1.03	75.51%
055487	Thorium-230	1518	1.02	pci/g	J	1.02	73.46%
055483	Thorium-230	1518	0.968	pci/g	J	0.968	71.42%
055451	Thorium-230	1517	0.965	pci/g	-	0.965	69.38%
055395	Thorium-230	1516	0.958	pci/g	J	0.958	67.34%
055489	Thorium-230	1518	0.921	pci/g	J	0.921	63.26%
055491	Thorium-230	1518	0.921	pci/g	J	0.921	63.26%
055429	Thorium-230	1517	0.913	pci/g	-	0.913	61.22%
055409	Thorium-230	1516	0.904	pci/g	J	0.904	59.18%
055470	Thorium-230	1518	0.888	pci/g	J	0.888	57.14%
055449	Thorium-230	1517	0.863	pci/g	-	0.863	53.06%
055474	Thorium-230	1518	0.863	pci/g	J	0.863	53.06%
055419	Thorium-230	1517	0.852	pci/g	-	0.852	51.02%
055391	Thorium-230	1516	0.849	pci/g	J	0.849	48.97%
055458	Thorium-230	1518	0.845	pci/g	J	0.845	46.93%
055416	Thorium-230	1517	0.812	pci/g	-	0.812	44.89%
055377	Thorium-230	1516	0.811	pci/g	J	0.811	42.85%
055375	Thorium-230	1516	0.794	pci/g	-	0.794	40.81%
055462	Thorium-230	1518	0.787	pci/g	J	0.787	38.77%
055405	Thorium-230	1516	0.779	pci/g	J	0.779	36.73%
055389	Thorium-230	1516	0.749	pci/g	J	0.749	34.69%
055407	Thorium-230	1516	0.705	pci/g	J	0.705	32.65%
055456	Thorium-230	1518	0.692	pci/g	J	0.692	30.61%
055425	Thorium-230	1517	0.691	pci/g	-	0.691	28.57%
055472	Thorium-230	1518	0.69	pci/g	J	0.69	26.53%
055422	Thorium-230	1517	0.672	pci/g	-	0.672	24.48%
055431	Thorium-230	1517	0.668	pci/g	-	0.668	22.44%
055387	Thorium-230	1516	0.662	pci/g	J	0.662	20.40%
055427	Thorium-230	1517	0.606	pci/g	-	0.606	16.32%
055460	Thorium-230	1518	0.606	pci/g	J	0.606	16.32%
032725	Thorium-230	3385	0.604	pci/g	-	0.604	14.28%
055393	Thorium-230	1516	0.6	pci/g	-	0.6	4.08%
055433	Thorium-230	1517	0.6	pci/g	-	0.6	4.08%
055440	Thorium-230	1517	0.6	pci/g	-	0.6	4.08%
055443	Thorium-230	1517	0.6	pci/g	-	0.6	4.08%

TABLE A.5-20
SOUTH FIELD - GMA (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055446	Thorium-230	1517	0.6	pci/g	-	0.6	4.08%
032639	Thorium-230	2385	0.6	pci/g	U	0.3	0.00%
055481	Thorium-230	1518	0.6	pci/g	U	0.3	0.00%

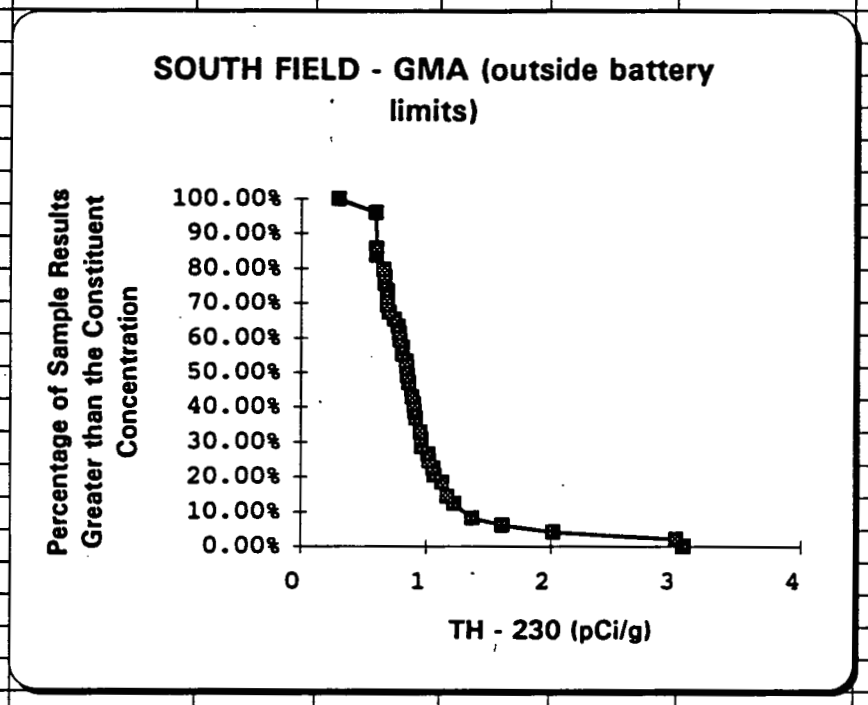

TABLE A.5-20
SOUTH FIELD - GMA (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055383	Uranium, Total	1516	9.42	mg/kg	J	9.42	100.00%
055399	Uranium, Total	1516	6.66	mg/kg	J	6.66	95.45%
055389	Uranium, Total	1516	6.55	mg/kg	J	6.55	90.90%
055483	Uranium, Total	1518	12	mg/kg	UJ	6	86.36%
055393	Uranium, Total	1516	5.52	mg/kg	J	5.52	81.81%
032639	Uranium, Total	2385	4.63	mg/kg	J	4.63	77.27%
055377	Uranium, Total	1516	3.44	mg/kg	J	3.44	72.72%
055405	Uranium, Total	1516	2.64	mg/kg	J	2.64	68.18%
055431	Uranium, Total	1517	1.85	mg/kg	J	1.85	63.63%
055425	Uranium, Total	1517	1.81	mg/kg	J	1.81	59.09%
055443	Uranium, Total	1517	1.78	mg/kg	J	1.78	54.54%
055462	Uranium, Total	1518	1.75	mg/kg	J	1.75	50.00%
055491	Uranium, Total	1518	1.68	mg/kg	J	1.68	45.45%
055472	Uranium, Total	1518	1.62	mg/kg	J	1.62	40.90%
055449	Uranium, Total	1517	1.54	mg/kg	J	1.54	36.36%
055456	Uranium, Total	1518	1.53	mg/kg	J	1.53	31.81%
055433	Uranium, Total	1517	1.52	mg/kg	J	1.52	27.27%
055440	Uranium, Total	1517	1.44	mg/kg	J	1.44	22.72%
055478	Uranium, Total	1518	2.8	mg/kg	UJ	1.4	18.18%
055427	Uranium, Total	1517	1.21	mg/kg	J	1.21	13.63%
055487	Uranium, Total	1518	2.4	mg/kg	UJ	1.2	9.09%
055429	Uranium, Total	1517	1.17	mg/kg	J	1.17	4.54%
055474	Uranium, Total	1518	1.8	mg/kg	UJ	0.9	0.00%

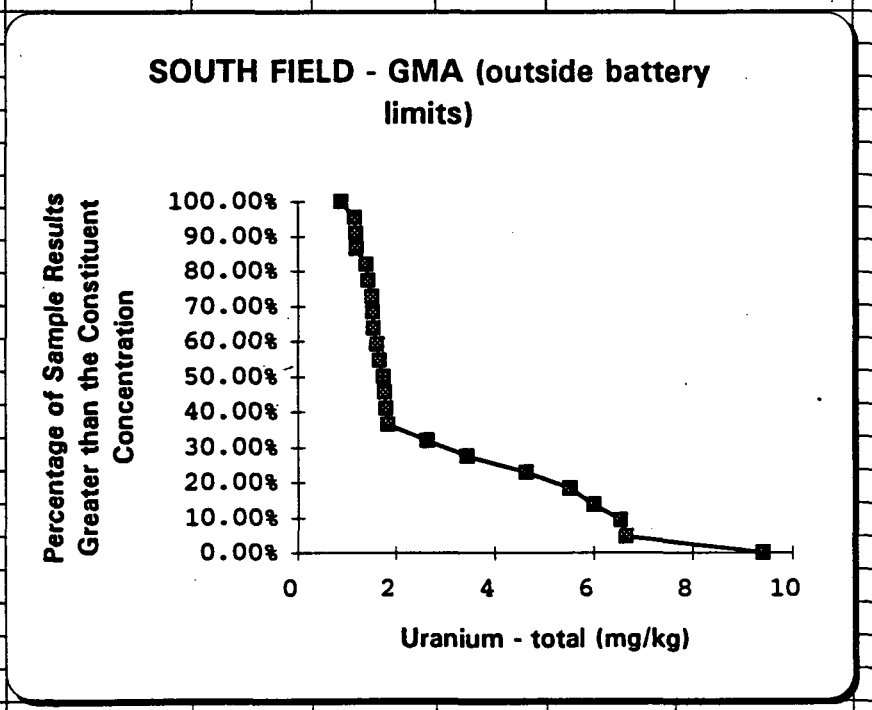

TABLE A.5-20
SOUTH FIELD - GMA (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055373	Uranium-234	1516	2.64	pci/g	J	2.64	100.00%
055407	Uranium-234	1516	2.3	pci/g	J	2.3	97.43%
055383	Uranium-234	1516	2.29	pci/g	J	2.29	94.87%
055399	Uranium-234	1516	2.27	pci/g	J	2.27	92.30%
055395	Uranium-234	1516	1.84	pci/g	J	1.84	89.74%
055379	Uranium-234	1516	1.73	pci/g	J	1.73	87.17%
055393	Uranium-234	1516	1.65	pci/g	J	1.65	84.61%
055401	Uranium-234	1516	1.63	pci/g	J	1.63	82.05%
055389	Uranium-234	1516	1.54	pci/g	J	1.54	79.48%
055387	Uranium-234	1516	1.5	pci/g	J	1.5	76.92%
055391	Uranium-234	1516	1.48	pci/g	J	1.48	74.35%
055429	Uranium-234	1517	1.43	pci/g	J	1.43	71.79%
055375	Uranium-234	1516	1.29	pci/g	J	1.29	69.23%
055377	Uranium-234	1516	1.24	pci/g	J	1.24	66.66%
055460	Uranium-234	1518	1.2	pci/g	JD	1.2	64.10%
055416	Uranium-234	1517	0.984	pci/g	J	0.984	61.53%
055405	Uranium-234	1516	0.954	pci/g	J	0.954	58.97%
055433	Uranium-234	1517	0.801	pci/g	J	0.801	56.41%
032725	Uranium-234	3385	0.736	pci/g	J	0.736	53.84%
055464	Uranium-234	1518	0.709	pci/g	J	0.709	51.28%
055466	Uranium-234	1518	0.629	pci/g	J	0.629	48.71%
055468	Uranium-234	1518	0.618	pci/g	J	0.618	46.15%
055409	Uranium-234	1516	0.6	pci/g	J	0.6	2.56%
055419	Uranium-234	1517	0.6	pci/g	J	0.6	2.56%
055422	Uranium-234	1517	0.6	pci/g	J	0.6	2.56%
055425	Uranium-234	1517	0.6	pci/g	J	0.6	2.56%
055427	Uranium-234	1517	0.6	pci/g	J	0.6	2.56%
055431	Uranium-234	1517	0.6	pci/g	J	0.6	2.56%
055437	Uranium-234	1517	0.6	pci/g	J	0.6	2.56%
055440	Uranium-234	1517	0.6	pci/g	J	0.6	2.56%
055443	Uranium-234	1517	0.6	pci/g	J	0.6	2.56%
055446	Uranium-234	1517	0.6	pci/g	J	0.6	2.56%
055449	Uranium-234	1517	0.6	pci/g	J	0.6	2.56%
055451	Uranium-234	1517	0.6	pci/g	J	0.6	2.56%
055456	Uranium-234	1518	0.6	pci/g	J	0.6	2.56%
055458	Uranium-234	1518	0.6	pci/g	J	0.6	2.56%
055462	Uranium-234	1518	0.6	pci/g	J	0.6	2.56%

TABLE A.5-20
SOUTH FIELD - GMA (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055470	Uranium-234	1518	0.6	pci/g	J	0.6	2.56%
055472	Uranium-234	1518	0.6	pci/g	J	0.6	2.56%
032639	Uranium-234	2385	0.6	pci/g	U	0.3	0.00%

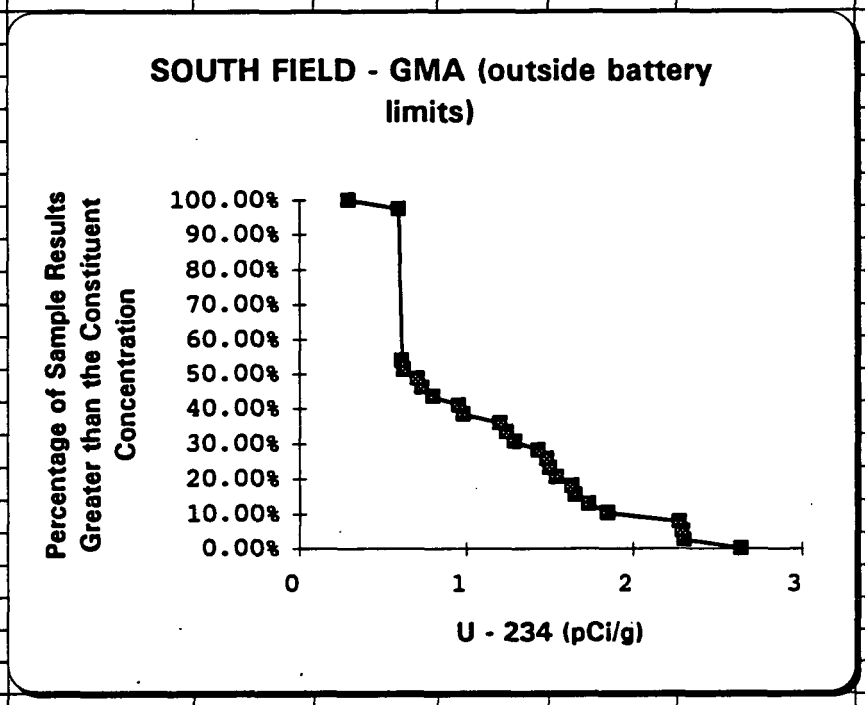

TABLE A.5-20
SOUTH FIELD - GMA (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055383	Uranium-238	1516	2.84	pci/g	J	2.84	100.00%
055407	Uranium-238	1516	2.74	pci/g	J	2.74	97.43%
055373	Uranium-238	1516	2.72	pci/g	J	2.72	94.87%
055399	Uranium-238	1516	2.6	pci/g	J	2.6	92.30%
055395	Uranium-238	1516	1.96	pci/g	J	1.96	89.74%
055379	Uranium-238	1516	1.93	pci/g	J	1.93	87.17%
055389	Uranium-238	1516	1.91	pci/g	J	1.91	84.61%
055393	Uranium-238	1516	1.84	pci/g	J	1.84	82.05%
055401	Uranium-238	1516	1.8	pci/g	J	1.8	79.48%
055377	Uranium-238	1516	1.67	pci/g	J	1.67	76.92%
055387	Uranium-238	1516	1.53	pci/g	J	1.53	71.79%
055391	Uranium-238	1516	1.53	pci/g	J	1.53	71.79%
055375	Uranium-238	1516	1.41	pci/g	J	1.41	69.23%
055460	Uranium-238	1518	1.2	pci/g	JD	1.2	66.66%
032725	Uranium-238	3385	1.05	pci/g	J	1.05	64.10%
055464	Uranium-238	1518	0.879	pci/g	J	0.879	61.53%
055466	Uranium-238	1518	0.873	pci/g	J	0.873	58.97%
055405	Uranium-238	1516	0.848	pci/g	J	0.848	56.41%
055416	Uranium-238	1517	0.842	pci/g	J	0.842	53.84%
055470	Uranium-238	1518	0.629	pci/g	J	0.629	51.28%
055446	Uranium-238	1517	0.625	pci/g	J	0.625	46.15%
055468	Uranium-238	1518	0.625	pci/g	J	0.625	46.15%
055431	Uranium-238	1517	0.624	pci/g	J	0.624	43.58%
055425	Uranium-238	1517	0.604	pci/g	J	0.604	41.02%
055409	Uranium-238	1516	0.6	pci/g	J	0.6	2.56%
055419	Uranium-238	1517	0.6	pci/g	J	0.6	2.56%
055422	Uranium-238	1517	0.6	pci/g	J	0.6	2.56%
055427	Uranium-238	1517	0.6	pci/g	J	0.6	2.56%
055429	Uranium-238	1517	0.6	pci/g	J	0.6	2.56%
055433	Uranium-238	1517	0.6	pci/g	J	0.6	2.56%
055437	Uranium-238	1517	0.6	pci/g	J	0.6	2.56%
055440	Uranium-238	1517	0.6	pci/g	J	0.6	2.56%
055443	Uranium-238	1517	0.6	pci/g	J	0.6	2.56%
055449	Uranium-238	1517	0.6	pci/g	J	0.6	2.56%
055451	Uranium-238	1517	0.6	pci/g	J	0.6	2.56%
055456	Uranium-238	1518	0.6	pci/g	J	0.6	2.56%
055458	Uranium-238	1518	0.6	pci/g	J	0.6	2.56%

TABLE A.5-20
SOUTH FIELD - GMA (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
055462	Uranium-238	1518	0.6	pci/g	J	0.6	2.56%
055472	Uranium-238	1518	0.6	pci/g	J	0.6	2.56%
032639	Uranium-238	2385	0.6	pci/g	U	0.3	0.00%

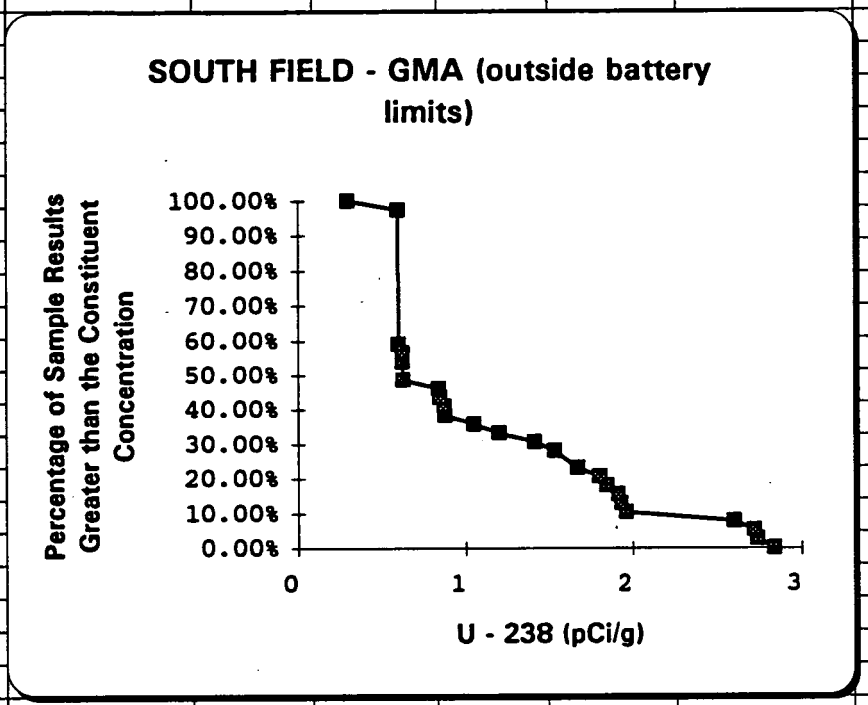

TABLE A.5-20
SOUTH FIELD - GMA (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
055377	Cesium-137	1516	0.2	pci/g	J	0.2
055383	Cesium-137	1516	0.2	pci/g	J	0.2
055389	Cesium-137	1516	0.2	pci/g	J	0.2
055393	Cesium-137	1516	0.2	pci/g	J	0.2
055399	Cesium-137	1516	0.2	pci/g	J	0.2
055405	Cesium-137	1516	0.2	pci/g	J	0.2
055425	Cesium-137	1517	0.2	pci/g	J	0.2
055427	Cesium-137	1517	0.2	pci/g	J	0.2
055429	Cesium-137	1517	0.2	pci/g	J	0.2
055431	Cesium-137	1517	0.2	pci/g	J	0.2
055433	Cesium-137	1517	0.2	pci/g	J	0.2
055440	Cesium-137	1517	0.2	pci/g	J	0.2
055443	Cesium-137	1517	0.2	pci/g	J	0.2
055449	Cesium-137	1517	0.2	pci/g	J	0.2
055456	Cesium-137	1518	0.2	pci/g	J	0.2
055462	Cesium-137	1518	0.2	pci/g	J	0.2
055472	Cesium-137	1518	0.2	pci/g	J	0.2
032639	Cesium-137	2385	0.2	pci/g	UJ	0.1
055474	Cesium-137	1518	0.2	pci/g	UJ	0.1
055478	Cesium-137	1518	0.2	pci/g	UJ	0.1
055483	Cesium-137	1518	0.2	pci/g	UJ	0.1
055487	Cesium-137	1518	0.2	pci/g	UJ	0.1
055491	Cesium-137	1518	0.2	pci/g	UJ	0.1
055373	Neptunium-237	1516	0.6	pci/g	J	0.6
055375	Neptunium-237	1516	0.6	pci/g	J	0.6
055377	Neptunium-237	1516	0.6	pci/g	J	0.6
055379	Neptunium-237	1516	0.6	pci/g	J	0.6
055383	Neptunium-237	1516	0.6	pci/g	J	0.6
055387	Neptunium-237	1516	0.6	pci/g	J	0.6
055389	Neptunium-237	1516	0.6	pci/g	J	0.6
055391	Neptunium-237	1516	0.6	pci/g	J	0.6
055393	Neptunium-237	1516	0.6	pci/g	J	0.6
055395	Neptunium-237	1516	0.6	pci/g	J	0.6
055399	Neptunium-237	1516	0.6	pci/g	J	0.6
055401	Neptunium-237	1516	0.6	pci/g	J	0.6
055405	Neptunium-237	1516	0.6	pci/g	J	0.6
055407	Neptunium-237	1516	0.6	pci/g	J	0.6
055409	Neptunium-237	1516	0.6	pci/g	J	0.6
055416	Neptunium-237	1517	0.6	pci/g	J	0.6
055419	Neptunium-237	1517	0.6	pci/g	J	0.6
055422	Neptunium-237	1517	0.6	pci/g	J	0.6
055425	Neptunium-237	1517	0.6	pci/g	J	0.6
055427	Neptunium-237	1517	0.6	pci/g	J	0.6
055429	Neptunium-237	1517	0.6	pci/g	J	0.6
055431	Neptunium-237	1517	0.6	pci/g	J	0.6
055433	Neptunium-237	1517	0.6	pci/g	J	0.6
055437	Neptunium-237	1517	0.6	pci/g	J	0.6
055440	Neptunium-237	1517	0.6	pci/g	J	0.6
055443	Neptunium-237	1517	0.6	pci/g	J	0.6

TABLE A.5-20
SOUTH FIELD - GMA (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
055446	Neptunium-237	1517	0.6	pci/g	J	0.6
055449	Neptunium-237	1517	0.6	pci/g	J	0.6
055451	Neptunium-237	1517	0.6	pci/g	J	0.6
055456	Neptunium-237	1518	0.6	pci/g	J	0.6
055458	Neptunium-237	1518	0.6	pci/g	J	0.6
055460	Neptunium-237	1518	0.6	pci/g	J	0.6
055462	Neptunium-237	1518	0.6	pci/g	J	0.6
055464	Neptunium-237	1518	0.6	pci/g	J	0.6
055466	Neptunium-237	1518	0.6	pci/g	J	0.6
055468	Neptunium-237	1518	0.6	pci/g	J	0.6
055470	Neptunium-237	1518	0.6	pci/g	J	0.6
055472	Neptunium-237	1518	0.6	pci/g	J	0.6
032639	Neptunium-237	2385	0.6	pci/g	U	0.3
055474	Neptunium-237	1518	0.6	pci/g	U	0.3
055476	Neptunium-237	1518	0.6	pci/g	U	0.3
055478	Neptunium-237	1518	0.6	pci/g	U	0.3
055481	Neptunium-237	1518	0.6	pci/g	U	0.3
055483	Neptunium-237	1518	0.6	pci/g	U	0.3
055485	Neptunium-237	1518	0.6	pci/g	U	0.3
055487	Neptunium-237	1518	0.6	pci/g	U	0.3
055489	Neptunium-237	1518	0.6	pci/g	U	0.3
055491	Neptunium-237	1518	0.6	pci/g	U	0.3
055493	Neptunium-237	1518	0.6	pci/g	U	0.3
032725	Neptunium-237	3385	0.6	pci/g	U	0.3
055456	Radium-228	1518	0.6	pci/g	JD	0.6
055483	Radium-228	1518	1.2	pci/g	UJ	0.6
055377	Radium-228	1516	0.5	pci/g	J	0.5
055383	Radium-228	1516	0.5	pci/g	J	0.5
055389	Radium-228	1516	0.5	pci/g	J	0.5
055393	Radium-228	1516	0.5	pci/g	J	0.5
055399	Radium-228	1516	0.5	pci/g	J	0.5
055405	Radium-228	1516	0.5	pci/g	J	0.5
055425	Radium-228	1517	0.5	pci/g	J	0.5
055427	Radium-228	1517	0.5	pci/g	J	0.5
055429	Radium-228	1517	0.5	pci/g	J	0.5
055431	Radium-228	1517	0.5	pci/g	J	0.5
055433	Radium-228	1517	0.5	pci/g	J	0.5
055440	Radium-228	1517	0.5	pci/g	J	0.5
055443	Radium-228	1517	0.5	pci/g	J	0.5
055449	Radium-228	1517	0.5	pci/g	J	0.5
055462	Radium-228	1518	0.5	pci/g	J	0.5
055472	Radium-228	1518	0.5	pci/g	J	0.5
032639	Radium-228	2385	0.5	pci/g	UJ	0.25
055474	Radium-228	1518	0.5	pci/g	UJ	0.25
055478	Radium-228	1518	0.5	pci/g	UJ	0.25
055487	Radium-228	1518	0.5	pci/g	UJ	0.25
055491	Radium-228	1518	0.5	pci/g	UJ	0.25
32639	Strontium-90	2385	0.5	pci/g	U	0.25
55373	Strontium-90	1516	0.5	pci/g	-	0.5

TABLE A.5-20
SOUTH FIELD - GMA (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
55375	Strontium-90	1516	0.5	pci/g	-	0.5
55377	Strontium-90	1516	1.22	pci/g	J	1.22
55379	Strontium-90	1516	0.5	pci/g	-	0.5
55383	Strontium-90	1516	0.5	pci/g	-	0.5
55387	Strontium-90	1516	0.5	pci/g	-	0.5
55389	Strontium-90	1516	0.5	pci/g	-	0.5
55391	Strontium-90	1516	0.5	pci/g	-	0.5
55393	Strontium-90	1516	0.5	pci/g	-	0.5
55395	Strontium-90	1516	0.5	pci/g	-	0.5
55399	Strontium-90	1516	0.5	pci/g	-	0.5
55401	Strontium-90	1516	0.5	pci/g	-	0.5
55405	Strontium-90	1516	0.5	pci/g	-	0.5
55407	Strontium-90	1516	0.5	pci/g	J	0.5
55409	Strontium-90	1516	0.5	pci/g	-	0.5
55416	Strontium-90	1517	0.5	pci/g	J	0.5
55419	Strontium-90	1517	0.5	pci/g	-	0.5
55422	Strontium-90	1517	0.5	pci/g	-	0.5
55425	Strontium-90	1517	0.5	pci/g	-	0.5
55427	Strontium-90	1517	0.5	pci/g	-	0.5
55429	Strontium-90	1517	0.5	pci/g	-	0.5
55431	Strontium-90	1517	0.5	pci/g	-	0.5
55433	Strontium-90	1517	0.737	pci/g	J	0.737
55437	Strontium-90	1517	0.5	pci/g	-	0.5
55440	Strontium-90	1517	0.5	pci/g	J	0.5
55443	Strontium-90	1517	0.5	pci/g	-	0.5
55446	Strontium-90	1517	0.5	pci/g	-	0.5
55449	Strontium-90	1517	0.5	pci/g	-	0.5
55451	Strontium-90	1517	0.5	pci/g	-	0.5
55456	Strontium-90	1518	0.5	pci/g	-	0.5
55458	Strontium-90	1518	0.5	pci/g	-	0.5
55460	Strontium-90	1518	0.7	pci/g	JD	0.7
55462	Strontium-90	1518	0.5	pci/g	-	0.5
55464	Strontium-90	1518	0.5	pci/g	-	0.5
55466	Strontium-90	1518	0.6	pci/g	JD	0.6
55468	Strontium-90	1518	0.5	pci/g	J	0.5
55470	Strontium-90	1518	0.5	pci/g	-	0.5
55472	Strontium-90	1518	0.5	pci/g	-	0.5
55474	Strontium-90	1518	0.5	pci/g	UJ	0.25
55478	Strontium-90	1518	0.5	pci/g	UJ	0.25
55481	Strontium-90	1518	0.5	pci/g	UJ	0.25
55483	Strontium-90	1518	0.5	pci/g	UJ	0.25
55485	Strontium-90	1518	0.5	pci/g	UJ	0.25
55487	Strontium-90	1518	0.5	pci/g	UJ	0.25
55489	Strontium-90	1518	0.5	pci/g	UJ	0.25
55491	Strontium-90	1518	0.5	pci/g	UJ	0.25
32725	Strontium-90	3385	0.5	pci/g	U	0.25
055373	Technetium-99	1516	0.9	pci/g	J	0.9
055375	Technetium-99	1516	0.9	pci/g	J	0.9
055377	Technetium-99	1516	0.9	pci/g	J	0.9

TABLE A.5-20
SOUTH FIELD - GMA (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
055379	Technetium-99	1516	0.9	pci/g	J	0.9
055383	Technetium-99	1516	0.9	pci/g	J	0.9
055387	Technetium-99	1516	0.9	pci/g	J	0.9
055389	Technetium-99	1516	0.9	pci/g	J	0.9
055391	Technetium-99	1516	0.9	pci/g	J	0.9
055393	Technetium-99	1516	0.9	pci/g	J	0.9
055395	Technetium-99	1516	0.9	pci/g	J	0.9
055399	Technetium-99	1516	0.9	pci/g	J	0.9
055401	Technetium-99	1516	0.9	pci/g	J	0.9
055405	Technetium-99	1516	0.9	pci/g	J	0.9
055407	Technetium-99	1516	0.9	pci/g	J	0.9
055409	Technetium-99	1516	0.9	pci/g	J	0.9
055416	Technetium-99	1517	0.9	pci/g	J	0.9
055419	Technetium-99	1517	0.9	pci/g	J	0.9
055422	Technetium-99	1517	0.9	pci/g	J	0.9
055425	Technetium-99	1517	0.9	pci/g	J	0.9
055427	Technetium-99	1517	0.9	pci/g	J	0.9
055429	Technetium-99	1517	0.9	pci/g	J	0.9
055431	Technetium-99	1517	0.9	pci/g	J	0.9
055433	Technetium-99	1517	0.9	pci/g	J	0.9
055437	Technetium-99	1517	0.9	pci/g	J	0.9
055440	Technetium-99	1517	0.9	pci/g	J	0.9
055443	Technetium-99	1517	0.9	pci/g	J	0.9
055446	Technetium-99	1517	0.9	pci/g	J	0.9
055449	Technetium-99	1517	0.9	pci/g	J	0.9
055451	Technetium-99	1517	0.9	pci/g	J	0.9
055456	Technetium-99	1518	0.9	pci/g	J	0.9
055458	Technetium-99	1518	0.9	pci/g	J	0.9
055460	Technetium-99	1518	0.9	pci/g	J	0.9
055462	Technetium-99	1518	0.9	pci/g	J	0.9
055464	Technetium-99	1518	0.9	pci/g	J	0.9
055466	Technetium-99	1518	0.9	pci/g	J	0.9
055468	Technetium-99	1518	0.9	pci/g	J	0.9
055470	Technetium-99	1518	0.9	pci/g	J	0.9
055472	Technetium-99	1518	0.9	pci/g	J	0.9
032639	Technetium-99	2385	0.9	pci/g	U	0.45
032725	Technetium-99	3385	0.9	pci/g	U	0.45
055474	Technetium-99	1518	0.9	pci/g	UJ	0.45
055476	Technetium-99	1518	0.9	pci/g	UJ	0.45
055478	Technetium-99	1518	0.9	pci/g	UJ	0.45
055481	Technetium-99	1518	0.9	pci/g	UJ	0.45
055483	Technetium-99	1518	0.9	pci/g	UJ	0.45
055485	Technetium-99	1518	0.9	pci/g	UJ	0.45
055487	Technetium-99	1518	0.9	pci/g	UJ	0.45
055489	Technetium-99	1518	0.9	pci/g	UJ	0.45
055491	Technetium-99	1518	0.9	pci/g	UJ	0.45
055493	Technetium-99	1518	0.9	pci/g	UJ	0.45
055476	Thorium-232	1518	5.59	pci/g	-	5.59
055466	Thorium-232	1518	0.623	pci/g	J	0.623

TABLE A.5-20
SOUTH FIELD - GMA (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
055373	Thorium-232	1516	0.6	pci/g	-	0.6
055375	Thorium-232	1516	0.6	pci/g	-	0.6
055377	Thorium-232	1516	0.6	pci/g	-	0.6
055379	Thorium-232	1516	0.6	pci/g	-	0.6
055383	Thorium-232	1516	0.6	pci/g	-	0.6
055387	Thorium-232	1516	0.6	pci/g	-	0.6
055389	Thorium-232	1516	0.6	pci/g	-	0.6
055391	Thorium-232	1516	0.6	pci/g	-	0.6
055393	Thorium-232	1516	0.6	pci/g	-	0.6
055416	Thorium-232	1517	0.6	pci/g	-	0.6
055419	Thorium-232	1517	0.6	pci/g	-	0.6
055422	Thorium-232	1517	0.6	pci/g	-	0.6
055425	Thorium-232	1517	0.6	pci/g	-	0.6
055427	Thorium-232	1517	0.6	pci/g	-	0.6
055429	Thorium-232	1517	0.6	pci/g	-	0.6
055431	Thorium-232	1517	0.6	pci/g	-	0.6
055433	Thorium-232	1517	0.6	pci/g	-	0.6
055437	Thorium-232	1517	0.6	pci/g	-	0.6
055440	Thorium-232	1517	0.6	pci/g	-	0.6
055443	Thorium-232	1517	0.6	pci/g	-	0.6
055446	Thorium-232	1517	0.6	pci/g	-	0.6
055449	Thorium-232	1517	0.6	pci/g	-	0.6
055451	Thorium-232	1517	0.6	pci/g	-	0.6
055395	Thorium-232	1516	0.6	pci/g	J	0.6
055399	Thorium-232	1516	0.6	pci/g	J	0.6
055401	Thorium-232	1516	0.6	pci/g	J	0.6
055405	Thorium-232	1516	0.6	pci/g	J	0.6
055407	Thorium-232	1516	0.6	pci/g	J	0.6
055409	Thorium-232	1516	0.6	pci/g	J	0.6
055456	Thorium-232	1518	0.6	pci/g	J	0.6
055458	Thorium-232	1518	0.6	pci/g	J	0.6
055460	Thorium-232	1518	0.6	pci/g	J	0.6
055462	Thorium-232	1518	0.6	pci/g	J	0.6
055464	Thorium-232	1518	0.6	pci/g	J	0.6
055468	Thorium-232	1518	0.6	pci/g	J	0.6
055470	Thorium-232	1518	0.6	pci/g	J	0.6
055472	Thorium-232	1518	0.6	pci/g	J	0.6
032639	Thorium-232	2385	0.6	pci/g	U	0.3
055474	Thorium-232	1518	0.6	pci/g	U	0.3
055478	Thorium-232	1518	0.6	pci/g	U	0.3
055481	Thorium-232	1518	0.6	pci/g	U	0.3
055483	Thorium-232	1518	0.6	pci/g	U	0.3
055485	Thorium-232	1518	0.6	pci/g	U	0.3
055487	Thorium-232	1518	0.6	pci/g	U	0.3
055489	Thorium-232	1518	0.6	pci/g	U	0.3
055491	Thorium-232	1518	0.6	pci/g	U	0.3
055493	Thorium-232	1518	0.6	pci/g	U	0.3
032725	Thorium-232	3385	0.6	pci/g	U	0.3
055460	Uranium-235/236	1518	1.2	pci/g	JD	1.2

TABLE A.5-20
SOUTH FIELD - GMA (outside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
055373	Uranium-235/236	1516	0.6	pci/g	J	0.6
055375	Uranium-235/236	1516	0.6	pci/g	J	0.6
055377	Uranium-235/236	1516	0.6	pci/g	J	0.6
055379	Uranium-235/236	1516	0.6	pci/g	J	0.6
055383	Uranium-235/236	1516	0.6	pci/g	J	0.6
055387	Uranium-235/236	1516	0.6	pci/g	J	0.6
055389	Uranium-235/236	1516	0.6	pci/g	J	0.6
055391	Uranium-235/236	1516	0.6	pci/g	J	0.6
055393	Uranium-235/236	1516	0.6	pci/g	J	0.6
055395	Uranium-235/236	1516	0.6	pci/g	J	0.6
055399	Uranium-235/236	1516	0.6	pci/g	J	0.6
055401	Uranium-235/236	1516	0.6	pci/g	J	0.6
055405	Uranium-235/236	1516	0.6	pci/g	J	0.6
055407	Uranium-235/236	1516	0.6	pci/g	J	0.6
055409	Uranium-235/236	1516	0.6	pci/g	J	0.6
055416	Uranium-235/236	1517	0.6	pci/g	J	0.6
055419	Uranium-235/236	1517	0.6	pci/g	J	0.6
055422	Uranium-235/236	1517	0.6	pci/g	J	0.6
055425	Uranium-235/236	1517	0.6	pci/g	J	0.6
055427	Uranium-235/236	1517	0.6	pci/g	J	0.6
055429	Uranium-235/236	1517	0.6	pci/g	J	0.6
055431	Uranium-235/236	1517	0.6	pci/g	J	0.6
055433	Uranium-235/236	1517	0.6	pci/g	J	0.6
055437	Uranium-235/236	1517	0.6	pci/g	J	0.6
055440	Uranium-235/236	1517	0.6	pci/g	J	0.6
055443	Uranium-235/236	1517	0.6	pci/g	J	0.6
055446	Uranium-235/236	1517	0.6	pci/g	J	0.6
055449	Uranium-235/236	1517	0.6	pci/g	J	0.6
055451	Uranium-235/236	1517	0.6	pci/g	J	0.6
055456	Uranium-235/236	1518	0.6	pci/g	J	0.6
055458	Uranium-235/236	1518	0.6	pci/g	J	0.6
055462	Uranium-235/236	1518	0.6	pci/g	J	0.6
055464	Uranium-235/236	1518	0.6	pci/g	J	0.6
055466	Uranium-235/236	1518	0.6	pci/g	J	0.6
055468	Uranium-235/236	1518	0.6	pci/g	J	0.6
055470	Uranium-235/236	1518	0.6	pci/g	J	0.6
055472	Uranium-235/236	1518	0.6	pci/g	J	0.6
032639	Uranium-235/236	2385	0.6	pci/g	U	0.3
032725	Uranium-235/236	3385	0.6	pci/g	U	0.3

TABLE A.5-21
SOUTH FIELD - SEDIMENT

Sample	Parameter	Location	Result	Units	Qual	Adjust
110425	Arsenic	SF-SD-01	7.7	mg/kg	-	7.7
110430	Arsenic	SF-SD-02	8	mg/kg	-	8
110428	Arsenic	SF-SD-03	75.6	mg/kg	-	75.6
110425	Beryllium	SF-SD-01	0.46	mg/kg	U	0.23
110430	Beryllium	SF-SD-02	1.1	mg/kg	-	1.1
110428	Beryllium	SF-SD-03	4.6	mg/kg	-	4.6
110425	Aroclor-1254	SF-SD-01	52	ug/kg	U	26
110430	Aroclor-1254	SF-SD-02	96	ug/kg	-	96
110428	Aroclor-1254	SF-SD-03	61	ug/kg	U	30.5
110425	Aroclor-1260	SF-SD-01	52	ug/kg	U	26
110430	Aroclor-1260	SF-SD-02	54	ug/kg	U	27
110428	Aroclor-1260	SF-SD-03	61	ug/kg	U	30.5
110425	Dieldrin	SF-SD-01	5.2	ug/kg	U	2.6
110430	Dieldrin	SF-SD-02	5.4	ug/kg	U	2.7
110428	Dieldrin	SF-SD-03	6.1	ug/kg	U	3.05
110425	CS-137	SF-SD-01	0.26	pci/g	-	0.26
110430	CS-137	SF-SD-02	0.4	pci/g	-	0.4
110428	CS-137	SF-SD-03	0.13	pci/g	UJ	0.07
110425	NP-237	SF-SD-01	0.32	pci/g	N	0.32
110430	NP-237	SF-SD-02	0.28	pci/g	N	0.28
110428	NP-237	SF-SD-03	0.42	pci/g	N	0.42
110425	RA-226	SF-SD-01	1.68	pci/g	-	1.68
110430	RA-226	SF-SD-02	1.57	pci/g	-	1.57
110428	RA-226	SF-SD-03	2.96	pci/g	-	2.96
110425	RA-228	SF-SD-01	1.24	pci/g	-	1.24
110430	RA-228	SF-SD-02	0.93	pci/g	-	0.93
110428	RA-228	SF-SD-03	2.53	pci/g	-	2.53
110425	Strontium-90	SF-SD-01	0.55	pci/g	J	0.55
110430	Strontium-90	SF-SD-02	0.43	pci/g	UJ	0.43
110428	Strontium-90	SF-SD-03	1.01	pci/g	J	1.01
110425	TC-99	SF-SD-01	0.36	pci/g	UJ	0.18
110430	TC-99	SF-SD-02	0.32	pci/g	UJ	0.16
110428	TC-99	SF-SD-03	0.22	pci/g	UJ	0.11
110425	TH-228	SF-SD-01	1.03	pci/g	-	1.03
110430	TH-228	SF-SD-02	1.06	pci/g	-	1.06
110428	TH-228	SF-SD-03	2.8	pci/g	-	2.8
110425	TH-230	SF-SD-01	1.83	pci/g	-	1.83
110430	TH-230	SF-SD-02	8.96	pci/g	-	8.96
110428	TH-230	SF-SD-03	4.91	pci/g	-	4.91
110425	TH-232	SF-SD-01	1.04	pci/g	-	1.04
110430	TH-232	SF-SD-02	0.87	pci/g	-	0.87
110428	TH-232	SF-SD-03	2.57	pci/g	-	2.57
110425	U-234	SF-SD-01	3.62	pci/g	-	3.62
110430	U-234	SF-SD-02	5.13	pci/g	-	5.13
110428	U-234	SF-SD-03	7.95	pci/g	-	7.95
110425	U-235/236	SF-SD-01	0.26	pci/g	J	0.26
110430	U-235/236	SF-SD-02	0.29	pci/g	J	0.29
110428	U-235/236	SF-SD-03	0.41	pci/g	J	0.41
110425	U-238	SF-SD-01	5.21	pci/g	-	5.21
110430	U-238	SF-SD-02	6.21	pci/g	-	6.21

TABLE A.5-21
SOUTH FIELD - SEDIMENT

110428	U-238	SF-SD-03	8.75	pci/g	-	8.75
110425	U-TOTAL	SF-SD-01	15.2	mg/kg	-	15.2
110430	U-TOTAL	SF-SD-02	20	mg/kg	J	20
110428	U-TOTAL	SF-SD-03	30.1	mg/kg	J	30.1
110425	Benzo(a)anthracene	SF-SD-01	510	ug/kg	U	255
110430	Benzo(a)anthracene	SF-SD-02	66	ug/kg	J	66
110428	Benzo(a)anthracene	SF-SD-03	610	ug/kg	U	305
110430	Benzo(a)pyrene	SF-SD-02	110	ug/kg	J	110
110428	Benzo(a)pyrene	SF-SD-03	610	ug/kg	U	305
110430	Benzo(b)fluoranthene	SF-SD-02	110	ug/kg	J	110
110428	Benzo(b)fluoranthene	SF-SD-03	610	ug/kg	U	305
110430	Benzo(k)fluoranthene	SF-SD-02	120	ug/kg	J	120
110428	Benzo(k)fluoranthene	SF-SD-03	74	ug/kg	J	74
110430	Dibenzo(a,h)anthracene	SF-SD-02	540	ug/kg	U	270
110428	Dibenzo(a,h)anthracene	SF-SD-03	610	ug/kg	U	305
110430	Indeno(1,2,3-cd)pyrene	SF-SD-02	99	ug/kg	J	99
110428	Indeno(1,2,3-cd)pyrene	SF-SD-03	610	ug/kg	U	305

TABLE A.5-22
SOUTH FIELD - PGW (inside battery limits)

Sample	Parameter	Filtered	Boring	Result	Units	Qualifier
113798	Aroclor-1254	UNFILTERED	1954	1	ug/l	U
113000	Aroclor-1254	UNFILTERED	1942	1	ug/l	UJ
112997	Aroclor-1254	UNFILTERED	1941	1	ug/l	UJ
047044	Aroclor-1254	UNFILTERED	1433	1	ug/l	U
047040	Aroclor-1254	UNFILTERED	1433	1	ug/l	U
116231	Aroclor-1254	UNFILTERED	1046	1	ug/l	U
113798	Aroclor-1260	UNFILTERED	1954	1	ug/l	U
113000	Aroclor-1260	UNFILTERED	1942	1	ug/l	UJ
112997	Aroclor-1260	UNFILTERED	1941	1	ug/l	UJ
047044	Aroclor-1260	UNFILTERED	1433	1	ug/l	U
047040	Aroclor-1260	UNFILTERED	1433	1	ug/l	U
116231	Aroclor-1260	UNFILTERED	1046	1	ug/l	U
113798	Arsenic	FILTERED	1954	0.002	mg/l	U
113798	Arsenic	UNFILTERED	1954	0.0104	mg/l	-
113319	Arsenic	UNFILTERED	1942	0.0058	mg/l	J
113000	Arsenic	UNFILTERED	1942	0.001	mg/l	U
113316	Arsenic	UNFILTERED	1941	0.0053	mg/l	J
112997	Arsenic	UNFILTERED	1941	0.001	mg/l	U
047044	Arsenic	UNFILTERED	1433	0.002	mg/l	U
047040	Arsenic	EILTERED	1433	0.003	mg/l	U
003649	Arsenic	FILTERED	1046	0.002	mg/l	U
003370	Arsenic	FILTERED	1046	0.01	mg/l	U
116231	Arsenic	UNFILTERED	1046	0.0019	mg/l	U
003089	Arsenic	FILTERED	1046	0.2	mg/l	UJ
003854	Arsenic	FILTERED	1046	0.002	mg/l	U
113798	Benzo(a)anthracene	UNFILTERED	1954	10	ug/l	U
113000	Benzo(a)anthracene	UNFILTERED	1942	10	ug/l	U
112997	Benzo(a)anthracene	UNFILTERED	1941	10	ug/l	U
047044	Benzo(a)anthracene	UNFILTERED	1433	10	ug/l	U
047040	Benzo(a)anthracene	UNFILTERED	1433	10	ug/l	U
116231	Benzo(a)anthracene	UNFILTERED	1046	10	ug/l	U
113798	Benzo(a)pyrene	UNFILTERED	1954	10	ug/l	U
113000	Benzo(a)pyrene	UNFILTERED	1942	10	ug/l	U
112997	Benzo(a)pyrene	UNFILTERED	1941	10	ug/l	U
047044	Benzo(a)pyrene	UNFILTERED	1433	10	ug/l	U
047040	Benzo(a)pyrene	UNFILTERED	1433	10	ug/l	U
116231	Benzo(a)pyrene	UNFILTERED	1046	10	ug/l	U
113798	Benzo(b)fluoranthene	UNFILTERED	1954	10	ug/l	U
113000	Benzo(b)fluoranthene	UNFILTERED	1942	10	ug/l	U
112997	Benzo(b)fluoranthene	UNFILTERED	1941	10	ug/l	U
047044	Benzo(b)fluoranthene	UNFILTERED	1433	10	ug/l	U
047040	Benzo(b)fluoranthene	UNFILTERED	1433	10	ug/l	U
116231	Benzo(b)fluoranthene	UNFILTERED	1046	10	ug/l	U
113798	Benzo(k)fluoranthene	UNFILTERED	1954	10	ug/l	U
113000	Benzo(k)fluoranthene	UNFILTERED	1942	10	ug/l	U
112997	Benzo(k)fluoranthene	UNFILTERED	1941	10	ug/l	U
047044	Benzo(k)fluoranthene	UNFILTERED	1433	10	ug/l	U
047040	Benzo(k)fluoranthene	UNFILTERED	1433	10	ug/l	U
116231	Benzo(k)fluoranthene	UNFILTERED	1046	10	ug/l	U
113798	Beryllium	FILTERED	1954	0.002	mg/l	U
113798	Beryllium	UNFILTERED	1954	0.002	mg/l	U

TABLE A.5-22
SOUTH FIELD - PGW (inside battery limits)

Sample	Parameter	Filtered	Boring	Result	Units	Qualifier
113319	Beryllium	UNFILTERED	1942	0.002	mg/l	U
113000	Beryllium	UNFILTERED	1942	0.0024	mg/l	U
113316	Beryllium	UNFILTERED	1941	0.0037	mg/l	-
112997	Beryllium	UNFILTERED	1941	0.0017	mg/l	U
047044	Beryllium	UNFILTERED	1433	0.002	mg/l	U
047040	Beryllium	FILTERED	1433	0.002	mg/l	U
116231	Beryllium	UNFILTERED	1046	0.001	mg/l	U
113798	Cesium-137	FILTERED	1954	12.8	pci/l	UJ
113798	Cesium-137	UNFILTERED	1954	14.4	pci/l	UJ
113319	Cesium-137	UNFILTERED	1942	14.8	pci/l	UJ
113000	Cesium-137	UNFILTERED	1942	12.9	pci/l	UJ
113316	Cesium-137	UNFILTERED	1941	16.3	pci/l	UJ
112997	Cesium-137	UNFILTERED	1941	18.4	pci/l	UJ
116231	Cesium-137	UNFILTERED	1046	16.8	pci/l	UJ
113798	Dibenzo(a,h)anthracene	UNFILTERED	1954	10	ug/l	U
113000	Dibenzo(a,h)anthracene	UNFILTERED	1942	10	ug/l	UJ
112997	Dibenzo(a,h)anthracene	UNFILTERED	1941	10	ug/l	UJ
047044	Dibenzo(a,h)anthracene	UNFILTERED	1433	10	ug/l	U
047040	Dibenzo(a,h)anthracene	UNFILTERED	1433	10	ug/l	U
116231	Dibenzo(a,h)anthracene	UNFILTERED	1046	10	ug/l	U
113798	Dieldrin	UNFILTERED	1954	0.1	ug/l	U
113000	Dieldrin	UNFILTERED	1942	0.1	ug/l	U
112997	Dieldrin	UNFILTERED	1941	0.1	ug/l	U
047044	Dieldrin	UNFILTERED	1433	0.1	ug/l	U
047040	Dieldrin	UNFILTERED	1433	0.1	ug/l	U
116231	Dieldrin	UNFILTERED	1046	0.1	ug/l	U
113798	Indeno(1,2,3-cd)pyrene	UNFILTERED	1954	10	ug/l	U
113000	Indeno(1,2,3-cd)pyrene	UNFILTERED	1942	10	ug/l	UJ
112997	Indeno(1,2,3-cd)pyrene	UNFILTERED	1941	10	ug/l	UJ
047044	Indeno(1,2,3-cd)pyrene	UNFILTERED	1433	10	ug/l	U
047040	Indeno(1,2,3-cd)pyrene	UNFILTERED	1433	10	ug/l	U
116231	Indeno(1,2,3-cd)pyrene	UNFILTERED	1046	10	ug/l	U
113798	Neptunium-237	FILTERED	1954	0.11	pci/l	U
113798	Neptunium-237	UNFILTERED	1954	0.177	pci/l	U
113000	Neptunium-237	UNFILTERED	1942	0.395	pci/l	N
112997	Neptunium-237	UNFILTERED	1941	0.34	pci/l	U
003649	Neptunium-237	UNFILTERED	1046	1	pci/l	UJ
003370	Neptunium-237	UNFILTERED	1046	1	pci/l	UJ
116231	Neptunium-237	UNFILTERED	1046	0.48	pci/l	N
003089	Neptunium-237	UNFILTERED	1046	1	pci/l	UJ
003854	Neptunium-237	UNFILTERED	1046	1	pci/l	U
047048	Neptunium-237	*U	1433	0.42	pci/l	N
113798	Radium-226	FILTERED	1954	0.119	pci/l	J
113798	Radium-226	UNFILTERED	1954	1.46	pci/l	-
113000	Radium-226	UNFILTERED	1942	0.158	pci/l	UJ
113316	Radium-226	UNFILTERED	1941	1.05	pci/l	J
003649	Radium-226	UNFILTERED	1046	1	pci/l	U
003370	Radium-226	UNFILTERED	1046	1	pci/l	U
116231	Radium-226	UNFILTERED	1046	0.128	pci/l	UJ
003854	Radium-226	UNFILTERED	1046	1	pci/l	U
047040	Radium-226	*U	1433	0.61	pci/l	U

TABLE A.5-22
SOUTH FIELD - PGW (inside battery limits)

Sample	Parameter	Filtered	Boring	Result	Units	Qualifier
047048	Radium-226	*U	1433	0.17	pci/l	J
113798	Radium-228	FILTERED	1954	1.16	pci/l	UJ
113798	Radium-228	UNFILTERED	1954	1.47	pci/l	U
113319	Radium-228	UNFILTERED	1942	1.58	pci/l	UJ
113000	Radium-228	UNFILTERED	1942	1.76	pci/l	UJ
113316	Radium-228	UNFILTERED	1941	1.19	pci/l	UJ
003649	Radium-228	UNFILTERED	1046	3	pci/l	U
003370	Radium-228	UNFILTERED	1046	3	pci/l	U
116231	Radium-228	UNFILTERED	1046	2.28	pci/l	UJ
003854	Radium-228	UNFILTERED	1046	3.3	pci/l	UJ
047040	Radium-228	*U	1433	3.64	pci/l	UJ
047048	Radium-228	*U	1433	2.14	pci/l	UJ
003854	Strontium-90	*U	1046	5	pci/l	U
003089	Strontium-90	*U	1046	5	pci/l	U
003370	Strontium-90	*U	1046	5	pci/l	U
003649	Strontium-90	*U	1046	5	pci/l	U
113798	Strontium-90	FILTERED	1954	0.808	pci/l	UJ
112997	Strontium-90	UNFILTERED	1941	3.31	pci/l	J
113000	Strontium-90	UNFILTERED	1942	3.05	pci/l	J
116231	Strontium-90	UNFILTERED	1046	0.722	pci/l	UJ
113316	Strontium-90	UNFILTERED	1941	0.598	pci/l	UJ
113319	Strontium-90	UNFILTERED	1942	0.629	pci/l	UJ
113798	Strontium-90	UNFILTERED	1954	0.767	pci/l	UJ
47040	Strontium-90	*U	1433	1.51	pci/l	UJ
47048	Strontium-90	*U	1433	10.8	pci/l	U
047040	Strontium-90	*U	1433	1.51	pci/l	UJ
047048	Strontium-90	*U	1433	10.8	pci/l	U
113798	Technetium-99	FILTERED	1954	10.4	pci/l	UJ
113798	Technetium-99	UNFILTERED	1954	11.4	pci/l	UJ
113319	Technetium-99	UNFILTERED	1942	14.1	pci/l	UJ
113000	Technetium-99	UNFILTERED	1942	8.6	pci/l	UJ
113316	Technetium-99	UNFILTERED	1941	13.1	pci/l	UJ
112997	Technetium-99	UNFILTERED	1941	9.4	pci/l	UJ
003649	Technetium-99	UNFILTERED	1046	30	pci/l	U
003370	Technetium-99	UNFILTERED	1046	30	pci/l	U
116231	Technetium-99	UNFILTERED	1046	8.1	pci/l	UJ
003089	Technetium-99	UNFILTERED	1046	30	pci/l	U
003854	Technetium-99	UNFILTERED	1046	30	pci/l	U
047040	Technetium-99	*U	1433	9.8	pci/l	UJ
047048	Technetium-99	*U	1433	13.1	pci/l	UJ
066829	Technetium-99	*U	1046	30	pci/l	U
113798	Thorium-228	FILTERED	1954	0.312	pci/l	UJ
113798	Thorium-228	UNFILTERED	1954	1.1	pci/l	-
113319	Thorium-228	UNFILTERED	1942	2.21	pci/l	-
113000	Thorium-228	UNFILTERED	1942	0.196	pci/l	UJ
113316	Thorium-228	UNFILTERED	1941	3.87	pci/l	-
112997	Thorium-228	UNFILTERED	1941	0.025	pci/l	UJ
003649	Thorium-228	UNFILTERED	1046	1	pci/l	UJ
003370	Thorium-228	UNFILTERED	1046	1	pci/l	UJ
116231	Thorium-228	UNFILTERED	1046	0.134	pci/l	UJ
003089	Thorium-228	UNFILTERED	1046	1.1	pci/l	J

TABLE A.5-22
SOUTH FIELD - PGW (inside battery limits)

Sample	Parameter	Filtered	Boring	Result	Units	Qualifier
003854	Thorium-228	UNFILTERED	1046	1	pci/l	U
047040	Thorium-228	*U	1433	0.22	pCi/l	UJ
066829	Thorium-228	*U	1046	1.47	pCi/l	J
113798	Thorium-230	FILTERED	1954	0.315	pci/l	J
113798	Thorium-230	UNFILTERED	1954	1.18	pci/l	-
113319	Thorium-230	UNFILTERED	1942	3.9	pci/l	-
113000	Thorium-230	UNFILTERED	1942	0.265	pci/l	J
113316	Thorium-230	UNFILTERED	1941	6.8	pci/l	-
112997	Thorium-230	UNFILTERED	1941	0.22	pci/l	J
003649	Thorium-230	UNFILTERED	1046	1	pci/l	UJ
003370	Thorium-230	UNFILTERED	1046	1	pci/l	UJ
116231	Thorium-230	UNFILTERED	1046	0.347	pci/l	J
003089	Thorium-230	UNFILTERED	1046	1	pci/l	J
003854	Thorium-230	UNFILTERED	1046	1	pci/l	U
066829	Thorium-230	*U	1046	1.76	pci/l	-
047040	Thorium-230	*U	1433	0.32	pci/l	UJ
113798	Thorium-232	FILTERED	1954	0.292	pci/l	UJ
113798	Thorium-232	UNFILTERED	1954	0.938	pci/l	J
113319	Thorium-232	UNFILTERED	1942	1.77	pci/l	-
113000	Thorium-232	UNFILTERED	1942	0.062	pci/l	UJ
113316	Thorium-232	UNFILTERED	1941	3.75	pci/l	-
112997	Thorium-232	UNFILTERED	1941	0.02	pci/l	UJ
003649	Thorium-232	UNFILTERED	1046	1	pci/l	UJ
003370	Thorium-232	UNFILTERED	1046	1	pci/l	UJ
116231	Thorium-232	UNFILTERED	1046	0.134	pci/l	UJ
003089	Thorium-232	UNFILTERED	1046	1	pci/l	UJ
003854	Thorium-232	UNFILTERED	1046	1	pci/l	U
047040	Thorium-232	*U	1433	0.37	pic/l	J
113798	Uranium, Total	FILTERED	1954	64.5	ug/l	-
113798	Uranium, Total	UNFILTERED	1954	38.9	ug/l	-
113319	Uranium, Total	UNFILTERED	1942	573	ug/l	-
113000	Uranium, Total	UNFILTERED	1942	340	ug/l	-
113316	Uranium, Total	UNFILTERED	1941	388	ug/l	-
112997	Uranium, Total	UNFILTERED	1941	547	ug/l	-
003649	Uranium, Total	UNFILTERED	1046	6	ug/l	-
003370	Uranium, Total	UNFILTERED	1046	6	ug/l	-
116231	Uranium, Total	UNFILTERED	1046	18.9	ug/l	-
003089	Uranium, Total	UNFILTERED	1046	203	ug/l	-
003854	Uranium, Total	UNFILTERED	1046	6	ug/l	-
066829	Uranium, Total	*U	1046	8.36	ug/l	-
047040	Uranium, Total	*U	1433	3969	ug/l	-
047048	Uranium, Total	*U	1433	3390	ug/l	-
113798	Uranium-234	FILTERED	1954	27.9	pci/l	-
113798	Uranium-234	UNFILTERED	1954	18.6	pci/l	-
113319	Uranium-234	UNFILTERED	1942	223	pci/l	-
113000	Uranium-234	UNFILTERED	1942	123	pci/l	-
113316	Uranium-234	UNFILTERED	1941	166	pci/l	-
112997	Uranium-234	UNFILTERED	1941	216	pci/l	-
003649	Uranium-234	UNFILTERED	1046	2	pci/l	J
003370	Uranium-234	UNFILTERED	1046	2.8	pci/l	J
116231	Uranium-234	UNFILTERED	1046	7.83	pci/l	-

TABLE A.5-22
SOUTH FIELD - PGW (inside battery limits)

Sample	Parameter	Filtered	Boring	Result	Units	Qualifier
003089	Uranium-234	UNFILTERED	1046	62.5	pci/l	-
003854	Uranium-234	UNFILTERED	1046	2.4	pci/l	-
066829	Uranium-234	*U	1046	2.96	pci/l	-
047040	Uranium-234	*U	1433	1530	pci/l	J
047048	Uranium-234	*U	1433	723	pci/l	J
113798	Uranium-235/236	FILTERED	1954	1.72	pci/l	-
113798	Uranium-235/236	UNFILTERED	1954	0.936	pci/l	J
113319	Uranium-235/236	UNFILTERED	1942	15.7	pci/l	-
113000	Uranium-235/236	UNFILTERED	1942	6.23	pci/l	-
113316	Uranium-235/236	UNFILTERED	1941	8.48	pci/l	-
112997	Uranium-235/236	UNFILTERED	1941	10.7	pci/l	-
003649	Uranium-235/236	UNFILTERED	1046	1	pci/l	UJ
003370	Uranium-235/236	UNFILTERED	1046	1	pci/l	UJ
116231	Uranium-235/236	UNFILTERED	1046	0.479	pci/l	J
003089	Uranium-235/236	UNFILTERED	1046	3.8	pci/l	-
003854	Uranium-235/236	UNFILTERED	1046	1	pci/l	U
066829	Uranium-235/236	*U	1046	1		U
047040	Uranium-235/236	*U	1433	31.9		J
113798	Uranium-238	FILTERED	1954	29.5	pci/l	-
113798	Uranium-238	UNFILTERED	1954	19.1	pci/l	-
113319	Uranium-238	UNFILTERED	1942	229	pci/l	-
113000	Uranium-238	UNFILTERED	1942	125	pci/l	-
113316	Uranium-238	UNFILTERED	1941	176	pci/l	-
112997	Uranium-238	UNFILTERED	1941	220	pci/l	-
003649	Uranium-238	UNFILTERED	1046	2.3	pci/l	J
003370	Uranium-238	UNFILTERED	1046	2	pci/l	J
116231	Uranium-238	UNFILTERED	1046	7.91	pci/l	-
003089	Uranium-238	UNFILTERED	1046	79.7	pci/l	-
003854	Uranium-238	UNFILTERED	1046	1.9	pci/l	-
066829	Uranium-238	*U	1046	1.94	pci/l	-
047040	Uranium-238	*U	1433	1537	pci/l	J
047048	Uranium-238	*U	1433	731	pci/l	J

TABLE A.5-23
SOUTH FIELD - PGW (outside battery limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
113792	Aroclor-1254	UNFILTERED	06/16/93	11085	1	ug/l	U
113869	Aroclor-1254	UNFILTERED	06/30/93	11032	1	ug/l	U
112013	Aroclor-1254	UNFILTERED	05/04/93	1065	1	ug/l	U
113792	Aroclor-1260	UNFILTERED	06/16/93	11085	1	ug/l	U
113869	Aroclor-1260	UNFILTERED	06/30/93	11032	1	ug/l	U
112013	Aroclor-1260	UNFILTERED	05/04/93	1065	1	ug/l	U
113792	Arsenic	FILTERED	06/16/93	11085	0.002	mg/l	U
113792	Arsenic	UNFILTERED	06/16/93	11085	0.007	mg/l	J
113869	Arsenic	FILTERED	06/30/93	11032	0.002	mg/l	UJ
113869	Arsenic	UNFILTERED	06/30/93	11032	0.0076	mg/l	-
112014	Arsenic	FILTERED	05/04/93	1065	0.001	mg/l	U
112013	Arsenic	UNFILTERED	05/04/93	1065	0.001	mg/l	U
003136	Arsenic	FILTERED	04/14/88	1065	0.2	mg/l	UJ
003860	Arsenic	FILTERED	01/22/89	1065	0.002	mg/l	U
113792	Benzo(a)anthracene	UNFILTERED	06/16/93	11085	10	ug/l	U
113869	Benzo(a)anthracene	UNFILTERED	06/30/93	11032	10	ug/l	U
112013	Benzo(a)anthracene	UNFILTERED	05/04/93	1065	10	ug/l	U
113792	Benzo(a)pyrene	UNFILTERED	06/16/93	11085	10	ug/l	U
113869	Benzo(a)pyrene	UNFILTERED	06/30/93	11032	10	ug/l	U
112013	Benzo(a)pyrene	UNFILTERED	05/04/93	1065	10	ug/l	U
113792	Benzo(b)fluoranthene	UNFILTERED	06/16/93	11085	10	ug/l	U
113869	Benzo(b)fluoranthene	UNFILTERED	06/30/93	11032	10	ug/l	U
112013	Benzo(b)fluoranthene	UNFILTERED	05/04/93	1065	10	ug/l	U
113792	Benzo(k)fluoranthene	UNFILTERED	06/16/93	11085	10	ug/l	U
113869	Benzo(k)fluoranthene	UNFILTERED	06/30/93	11032	10	ug/l	U
112013	Benzo(k)fluoranthene	UNFILTERED	05/04/93	1065	10	ug/l	U
113792	Beryllium	FILTERED	06/16/93	11085	0.002	mg/l	U
113792	Beryllium	UNFILTERED	06/16/93	11085	0.0096	mg/l	-
113869	Beryllium	FILTERED	06/30/93	11032	0.002	mg/l	U
113869	Beryllium	UNFILTERED	06/30/93	11032	0.0061	mg/l	-
112014	Beryllium	FILTERED	05/04/93	1065	0.001	mg/l	U
112013	Beryllium	UNFILTERED	05/04/93	1065	0.001	mg/l	U
113792	Cesium-137	FILTERED	06/16/93	11085	18	pci/l	UJ
113792	Cesium-137	UNFILTERED	06/16/93	11085	14	pci/l	UJ
113869	Cesium-137	FILTERED	06/30/93	11032	13.2	pci/l	UJ
113869	Cesium-137	UNFILTERED	06/30/93	11032	17.3	pci/l	UJ
112014	Cesium-137	UNFILTERED	05/04/93	1065	10.1	pci/l	UJ
112013	Cesium-137	UNFILTERED	05/04/93	1065	10.5	pci/l	UJ
113792	Dibenzo(a,h)anthracene	UNFILTERED	06/16/93	11085	10	ug/l	U
113869	Dibenzo(a,h)anthracene	UNFILTERED	06/30/93	11032	10	ug/l	U
112013	Dibenzo(a,h)anthracene	UNFILTERED	05/04/93	1065	10	ug/l	UJ
113792	Dieldrin	UNFILTERED	06/16/93	11085	0.1	ug/l	U
113869	Dieldrin	UNFILTERED	06/30/93	11032	0.1	ug/l	U
112013	Dieldrin	UNFILTERED	05/04/93	1065	0.1	ug/l	U
113792	Indeno(1,2,3-cd)pyrene	UNFILTERED	06/16/93	11085	10	ug/l	UJ
113869	Indeno(1,2,3-cd)pyrene	UNFILTERED	06/30/93	11032	10	ug/l	U
112013	Indeno(1,2,3-cd)pyrene	UNFILTERED	05/04/93	1065	10	ug/l	U
113792	Neptunium-237	FILTERED	06/16/93	11085	0.59	pci/l	N
113792	Neptunium-237	UNFILTERED	06/16/93	11085	0.265	pci/l	U
113869	Neptunium-237	FILTERED	06/30/93	11032	0.47	pci/l	U
113869	Neptunium-237	UNFILTERED	06/30/93	11032	3.1	pci/l	UJ

TABLE A.5-23
SOUTH FIELD - PGW (outside battery limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
112013	Neptunium-237	UNFILTERED	05/04/93	1065	0.22	pci/l	N
112014	Neptunium-237	UNFILTERED	05/04/93	1065	0.3	pci/l	N
003136	Neptunium-237	UNFILTERED	04/14/88	1065	1	pci/l	U
003860	Neptunium-237	UNFILTERED	01/22/89	1065	1.2	pci/l	D
113792	Radium-226	FILTERED	06/16/93	11085	0.113	pci/l	UJ
113792	Radium-226	UNFILTERED	06/16/93	11085	1.36	pci/l	J
113869	Radium-226	FILTERED	06/30/93	11032	0.13	pci/l	UJ
112014	Radium-226	UNFILTERED	05/04/93	1065	0.09	pci/l	UJ
112013	Radium-226	UNFILTERED	05/04/93	1065	0.13	pci/l	UJ
003860	Radium-226	UNFILTERED	01/22/89	1065	1	pci/l	U
113792	Radium-228	FILTERED	06/16/93	11085	1.43	pci/l	U
113792	Radium-228	UNFILTERED	06/16/93	11085	5.45	pci/l	UJ
113869	Radium-228	FILTERED	06/30/93	11032	1.18	pci/l	UJ
112014	Radium-228	UNFILTERED	05/04/93	1065	1.25	pci/l	UJ
112013	Radium-228	UNFILTERED	05/04/93	1065	1.46	pci/l	UJ
003860	Radium-228	UNFILTERED	01/22/89	1065	3.1	pci/l	UJ
3860	Strontium-90	*U	1/22/89	1065	5	pci/l	U
3136	Strontium-90	*U	4/14/88	1065	5	pci/l	U
113792	Strontium-90	FILTERED	6/16/93	11085	0.753	pci/l	UJ
113869	Strontium-90	FILTERED	6/30/93	11032	1.33	pci/l	J
112013	Strontium-90	UNFILTERED	5/4/93	1065	0.81	pci/l	UJ
112014	Strontium-90	UNFILTERED	5/4/93	1065	1.82	pci/l	U
113792	Strontium-90	UNFILTERED	6/16/93	11085	1.02	pci/l	UJ
113869	Strontium-90	UNFILTERED	6/30/93	11032	0.5	pci/l	UJ
113792	Technetium-99	FILTERED	06/16/93	11085	10.2	pci/l	UJ
113792	Technetium-99	UNFILTERED	06/16/93	11085	10.4	pci/l	UJ
113869	Technetium-99	FILTERED	06/30/93	11032	12	pci/l	UJ
113869	Technetium-99	UNFILTERED	06/30/93	11032	11.6	pci/l	UJ
112013	Technetium-99	UNFILTERED	05/04/93	1065	10.7	pci/l	UJ
112014	Technetium-99	UNFILTERED	05/04/93	1065	10.9	pci/l	UJ
003136	Technetium-99	UNFILTERED	04/14/88	1065	30	pci/l	UJ
003860	Technetium-99	UNFILTERED	01/22/89	1065	30	pci/l	U
066834	Technetium-99	*U	12/13/89	1065	1.47	pCi/l	UJ
113792	Thorium-228	FILTERED	06/16/93	11085	0.344	pci/l	UJ
113792	Thorium-228	UNFILTERED	06/16/93	11085	9.87	pci/l	-
113869	Thorium-228	FILTERED	06/30/93	11032	0.27	pci/l	UJ
112013	Thorium-228	UNFILTERED	05/04/93	1065	0.17	pci/l	UJ
112014	Thorium-228	UNFILTERED	05/04/93	1065	0.35	pci/l	UJ
003136	Thorium-228	UNFILTERED	04/14/88	1065	1	pci/l	U
003860	Thorium-228	UNFILTERED	01/22/89	1065	1.2	pci/l	D
066834	Thorium-228	*U	12/13/89	1065	1.04	pci/l	J
113792	Thorium-230	FILTERED	06/16/93	11085	2.36	pci/l	J
113792	Thorium-230	UNFILTERED	06/16/93	11085	11.2	pci/l	-
113869	Thorium-230	FILTERED	06/30/93	11032	0.18	pci/l	UJ
112014	Thorium-230	UNFILTERED	05/04/93	1065	0.11	pci/l	J
112013	Thorium-230	UNFILTERED	05/04/93	1065	0.36	pci/l	U
003136	Thorium-230	UNFILTERED	04/14/88	1065	1	pci/l	U
003860	Thorium-230	UNFILTERED	01/22/89	1065	1.2	pci/l	D
066834	Thorium-230	*U	12/13/89	1065	0.329	pci/l	UJ
113792	Thorium-232	FILTERED	06/16/93	11085	0.216	pci/l	J
113792	Thorium-232	UNFILTERED	06/16/93	11085	8.56	pci/l	-

TABLE A.5-23
SOUTH FIELD - PGW (outside battery limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
113869	Thorium-232	FILTERED	06/30/93	11032	0.07	pci/l	UJ
112014	Thorium-232	UNFILTERED	05/04/93	1065	0.1	pci/l	UJ
112013	Thorium-232	UNFILTERED	05/04/93	1065	0.12	pci/l	UJ
003136	Thorium-232	UNFILTERED	04/14/88	1065	1	pci/l	U
003860	Thorium-232	UNFILTERED	01/22/89	1065	1.2	pci/l	D
113792	Uranium, Total	FILTERED	06/16/93	11085	4.33	ug/l	-
113792	Uranium, Total	UNFILTERED	06/16/93	11085	13.7	ug/l	-
113869	Uranium, Total	FILTERED	06/30/93	11032	6.14	ug/l	J
113869	Uranium, Total	UNFILTERED	06/30/93	11032	22.6	ug/l	J
112014	Uranium, Total	UNFILTERED	05/04/93	1065	1.1	ug/l	-
112013	Uranium, Total	UNFILTERED	05/04/93	1065	1.36	ug/l	-
003136	Uranium, Total	UNFILTERED	04/14/88	1065	1	ug/l	-
003860	Uranium, Total	UNFILTERED	01/22/89	1065	2	ug/l	-
066834	Uranium, Total	*U	12/13/89	1065	5.334	ug/l	-
113792	Uranium-234	FILTERED	06/16/93	11085	1.72	pci/l	-
113792	Uranium-234	UNFILTERED	06/16/93	11085	7.46	pci/l	-
113869	Uranium-234	FILTERED	06/30/93	11032	2.62	pci/l	-
113869	Uranium-234	UNFILTERED	06/30/93	11032	8.72	pci/l	-
112013	Uranium-234	UNFILTERED	05/04/93	1065	0.54	pci/l	J
112014	Uranium-234	UNFILTERED	05/04/93	1065	20.3	pci/l	-
003136	Uranium-234	UNFILTERED	04/14/88	1065	1	pci/l	U
003860	Uranium-234	UNFILTERED	01/22/89	1065	1	pci/l	U
066834	Uranium-234	*U	12/13/89	1065	1.06	pci/l	-
113792	Uranium-235/236	FILTERED	06/16/93	11085	0.139	pci/l	UJ
113792	Uranium-235/236	UNFILTERED	06/16/93	11085	0.303	pci/l	J
113869	Uranium-235/236	FILTERED	06/30/93	11032	0.12	pci/l	-
113869	Uranium-235/236	UNFILTERED	06/30/93	11032	0.34	pci/l	-
112014	Uranium-235/236	UNFILTERED	05/04/93	1065	0.06	pci/l	UJ
112013	Uranium-235/236	UNFILTERED	05/04/93	1065	0.16	pci/l	UJ
003136	Uranium-235/236	UNFILTERED	04/14/88	1065	1	pci/l	U
003860	Uranium-235/236	UNFILTERED	01/22/89	1065	1	pci/l	U
066834	Uranium-235/236	*U	12/13'89	1065	0.0275	pci/l	UJ
113792	Uranium-238	FILTERED	06/16/93	11085	1.43	pci/l	-
113792	Uranium-238	UNFILTERED	06/16/93	11085	7.09	pci/l	-
113869	Uranium-238	FILTERED	06/30/93	11032	2.43	pci/l	-
113869	Uranium-238	UNFILTERED	06/30/93	11032	8.87	pci/l	-
112014	Uranium-238	UNFILTERED	05/04/93	1065	0.47	pci/l	-
112013	Uranium-238	UNFILTERED	05/04/93	1065	0.54	pci/l	J
003136	Uranium-238	UNFILTERED	04/14/88	1065	1	pci/l	U
003860	Uranium-238	UNFILTERED	01/22/89	1065	1	pci/l	U
066834	Uranium-238	*U	12/13/89	1065	1.07	pci/l	-

A.6

APPENDIX A.6

ACTIVE FLYASH PILE

Table A.6–1
Statistical Summary for Soil/Waste
Active Flyash Pile

Analyte	Units	Distribution	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N)	95%(N)	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
AFP – Surface Soil																	
Arsenic	mg/kg	Normal	14	14	10.4	145	–	–	70.043	94.164	138.767	–	–	–	–	–	94.164
Beryllium	mg/kg	Normal	14	14	1.5	6.4	–	–	3.900	4.842	6.583	–	–	–	–	–	4.842
Cesium–137	pci/g	Undefined	14	4	0.0721	0.919	0.08	0.122	0.151285	–	–	–	–	–	0.0721	0.919	0.919
Neptunium–237	pci/g	Undefined	6	6	0.057	0.3	–	–	0.124	–	–	–	–	–	0.300	0.300	0.300
Radium–226	pci/g	Undefined	14	14	1.3	4.61	–	–	3.109	–	–	–	–	–	3.600	4.610	4.610
Radium–228	pci/g	Undefined	14	14	1.01	3.17	–	–	2.501	–	–	–	–	–	2.920	3.170	3.170
Strontium–90	pci/g	Undefined	14	7	0.214	4.47	0.153	0.324	0.920035	–	–	–	–	–	0.76	4.47	4.47
Technetium–99	pci/g	Undefined	14	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium–228	pci/g	Undefined	14	14	0.805	3.81	–	–	2.174	–	–	–	–	–	2.410	3.810	3.810
Thorium–232	pci/g	LogNormal	14	14	0.931	3.74	–	–	–	–	–	2.181	2.620	3.610	–	–	2.620
Uranium, Total	mg/kg	Normal	14	14	7.86	14.8	–	–	11.613	12.849	15.134	–	–	–	–	–	12.849
Uranium–234	pci/g	LogNormal	14	14	2.37	4.43	–	–	–	–	–	3.332	3.599	4.248	–	–	3.599
Uranium–235/236	pci/g	Normal	14	13	0.082	0.199	0.084	0.084	0.146	0.172	0.220	–	–	–	–	–	0.172
Uranium–238	pci/g	Normal	14	14	2.88	4.39	–	–	3.414	3.648	4.080	–	–	–	–	–	3.648
AFP – Source Material																	
Arsenic	mg/kg	Normal	35	35	4.6	145	–	–	51.014	63.890	112.673	–	–	–	–	–	63.890
Beryllium	mg/kg	Normal	35	35	0.47	6.4	–	–	2.903	3.463	5.586	–	–	–	–	–	3.463
Cesium–137	pci/g	Undefined	39	5	0.0721	0.919	0.08	0.2	0.103483	–	–	–	–	–	0.0721	0.459	0.459
Neptunium–237	pci/g	Undefined	23	16	0.038	0.45	0.6	0.6	0.203	–	–	–	–	–	0.122	0.400	0.400
Radium–226	pci/g	Undefined	39	39	0.47	6.22	–	–	2.931	–	–	–	–	–	3.550	4.610	4.610
Radium–228	pci/g	Undefined	39	39	0.74	5.32	–	–	2.395	–	–	–	–	–	2.860	3.890	3.890
Strontium–90	pci/g	Undefined	38	18	0.214	4.47	0.141	0.9	0.79625	–	–	–	–	–	0.705	4.24	4.24
Technetium–99	pci/g	Undefined	37	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium–228	pci/g	Normal	39	39	0.805	5.79	–	–	2.393	2.753	4.222	–	–	–	–	–	2.753
Thorium–230	pci/g	Normal	39	39	1.01	6.74	–	–	3.044	3.497	5.344	–	–	–	–	–	3.497
Thorium–232	pci/g	Normal	39	38	0.52	5.08	0.6	0.6	2.086	2.401	3.682	–	–	–	–	–	2.401
Uranium, Total	mg/kg	LogNormal	38	37	3.08	31.3	3.9	3.9	–	–	–	13.593	16.771	31.534	–	–	16.771
Uranium–234	pci/g	Undefined	39	39	0.772	17.3	–	–	3.655	–	–	–	–	–	3.580	12.300	12.300
Uranium–235/236	pci/g	Undefined	39	26	0.043	4.12	0.084	0.6	0.377	–	–	–	–	–	0.159	3.420	3.420
Uranium–238	pci/g	Undefined	39	39	0.93	12.6	–	–	3.958	–	–	–	–	–	3.670	9.670	9.670
AFP – Ash Samples																	
Arsenic	mg/kg	Normal	30	30	7.9	145	–	–	57.717	71.275	117.444	–	–	–	–	–	71.275
Beryllium	mg/kg	Normal	30	30	0.65	6.4	–	–	3.245	3.805	5.713	–	–	–	–	–	3.805
Cesium–137	pci/g	Undefined	33	5	0.0721	0.919	0.08	0.2	0.109146	–	–	–	–	–	0.0721	0.459	0.459
Neptunium–237	pci/g	Undefined	19	13	0.038	0.45	0.6	0.6	0.199	–	–	–	–	–	0.122	0.450	0.450
Radium–226	pci/g	Undefined	33	33	1.15	6.22	–	–	3.280	–	–	–	–	–	3.600	4.610	4.610
Radium–228	pci/g	Undefined	33	33	0.908	5.32	–	–	2.659	–	–	–	–	–	2.910	3.890	3.890
Strontium–90	pci/g	LogNormal	33	17	0.214	4.47	0.141	0.9	–	–	–	0.8282	1.5021	2.97	–	–	1.502071
Technetium–99	pci/g	Undefined	31	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium–228	pci/g	Normal	33	33	0.805	5.79	–	–	2.632	2.999	4.336	–	–	–	–	–	2.999
Thorium–230	pci/g	LogNormal	33	33	1.25	6.74	–	–	–	–	–	3.304	3.779	5.956	–	–	3.779
Thorium–232	pci/g	Normal	33	33	0.883	5.08	–	–	2.323	2.624	3.719	–	–	–	–	–	2.624
Uranium, Total	mg/kg	LogNormal	33	33	3.08	31.3	–	–	–	–	–	14.715	17.503	29.852	–	–	17.503
Uranium–234	pci/g	Undefined	33	33	0.917	17.3	–	–	4.135	–	–	–	–	–	3.700	12.300	12.300
Uranium–235/236	pci/g	Undefined	33	23	0.0439	4.12	0.084	0.6	0.413	–	–	–	–	–	0.163	3.420	3.420
Uranium–238	pci/g	Undefined	33	33	1.11	12.6	–	–	4.312	–	–	–	–	–	3.900	7.960	7.960
AFP – Impacted Till																	

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Table A.6–1
Statistical Summary for Soil/Waste
Active Flyash Pile

Analyte	Units	Distribution	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N	95%(N)	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
Arsenic	mg/kg	Undefined	5	5	4.6	18.7	–	–	10.800	–	–	–	–	–	18.700	18.700	18.700
Beryllium	mg/kg	Undefined	5	5	0.47	1.4	–	–	0.852	–	–	–	–	–	1.400	1.400	1.400
Cesium–137	pci/g	Undefined	6	0	–	–	0.08	0.2	0.072333	–	–	–	–	–	0.1	0.1	–
Neptunium–237	pci/g	Undefined	4	3	0.052	0.4	0.6	0.6	0.225	–	–	–	–	–	0.400	0.400	0.400
Radium–226	pci/g	Undefined	6	6	0.47	1.73	–	–	1.010	–	–	–	–	–	1.730	1.730	1.730
Radium–228	pci/g	Undefined	6	6	0.74	1.33	–	–	0.942	–	–	–	–	–	1.330	1.330	1.330
Strontium–90	pci/g	Undefined	5	1	3.61	3.61	0.171	0.6	0.8569	–	–	–	–	–	3.61	3.61	3.61
Technetium–99	pci/g	Undefined	6	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium–228	pci/g	Undefined	6	6	0.813	1.4	–	–	1.078	–	–	–	–	–	1.400	1.400	1.400
Thorium–230	pci/g	Undefined	6	6	1.01	3.6	–	–	1.703	–	–	–	–	–	3.600	3.600	3.600
Thorium–232	pci/g	Undefined	6	5	0.52	1.35	0.6	0.6	0.783	–	–	–	–	–	1.350	1.350	1.350
Uranium, Total	mg/kg	Undefined	5	4	4.15	7.17	3.9	3.9	4.459	–	–	–	–	–	7.170	7.170	7.170
Uranium–234	pci/g	Undefined	6	6	0.772	1.27	–	–	1.021	–	–	–	–	–	1.270	1.270	1.270
Uranium–235/236	pci/g	Undefined	6	3	0.043	0.069	0.6	0.6	0.177	–	–	–	–	–	0.069	0.069	0.069
Uranium–238	pci/g	Undefined	6	6	0.93	2.6	–	–	1.492	–	–	–	–	–	2.600	2.600	2.600
AFP – Other Till																	
Arsenic	mg/kg	Undefined	3	3	4.1	14	–	–	8.833	–	–	–	–	–	14.000	14.000	14.000
Beryllium	mg/kg	Undefined	3	3	0.64	1.1	–	–	0.830	–	–	–	–	–	1.100	1.100	1.100
Cesium–137	pci/g	Undefined	4	0	–	–	0.0623	0.2	–	–	–	–	–	–	–	–	–
Neptunium–237	pci/g	Undefined	4	2	0.12	0.19	0.6	0.6	0.228	–	–	–	–	–	0.190	0.190	0.190
Radium–226	pci/g	Undefined	4	3	0.76	1.14	0.4	0.4	0.753	–	–	–	–	–	1.140	1.140	1.140
Radium–228	pci/g	Undefined	3	3	0.56	0.9	–	–	0.736	–	–	–	–	–	0.900	0.900	0.900
Strontium–90	pci/g	Undefined	4	2	0.7	1.2	0.197	0.21	0.525875	–	–	–	–	–	1.2	1.2	1.2
Technetium–99	pcig	Undefined	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium–228	pci/g	Undefined	4	4	0.628	1.76	–	–	1.090	–	–	–	–	–	1.760	1.760	1.760
Thorium–230	pci/g	Undefined	4	4	0.85	2.67	–	–	1.590	–	–	–	–	–	2.670	2.670	2.670
Thorium–232	pci/g	Undefined	4	4	0.61	1.2	–	–	0.802	–	–	–	–	–	1.200	1.200	1.200
Uranium, Total	mg/kg	Undefined	3	3	2.72	4.27	–	–	3.430	–	–	–	–	–	4.270	4.270	4.270
Uranium–234	pci/g	Undefined	4	4	0.87	1	–	–	0.947	–	–	–	–	–	1.000	1.000	1.000
Uranium–235/236	pci/g	Undefined	4	2	0.03	0.034	0.6	0.6	0.166	–	–	–	–	–	0.034	0.034	0.034
Uranium–238	pci/g	Undefined	4	4	0.8	1.05	–	–	0.906	–	–	–	–	–	1.050	1.050	1.050
AFP – GMA Soil Inside Battery Limits																	
Cesium–137	pci/g	Undefined	2	0	–	–	0.2	0.2	–	–	–	–	–	–	–	–	–
Neptunium–237	pci/g	Undefined	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium–226	pci/g	Undefined	2	2	0.4	0.594	–	–	0.497	–	–	–	–	–	0.594	0.594	0.594
Radium–228	pci/g	Undefined	2	1	0.537	0.537	0.5	0.5	0.394	–	–	–	–	–	0.537	0.537	0.537
Strontium–90	pci/g	Undefined	2	1	0.5	0.5	0.5	0.5	0.375	–	–	–	–	–	0.5	0.5	0.5
Technetium–99	pci/g	Undefined	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium–228	pci/g	Undefined	3	1	1.19	1.19	0.6	0.6	0.597	–	–	–	–	–	1.190	1.190	1.190
Thorium–230	pci/g	Undefined	3	3	0.7	1.42	–	–	0.940	–	–	–	–	–	1.420	1.420	1.420
Thorium–232	pci/g	Undefined	3	2	0.6	0.965	0.6	0.6	0.622	–	–	–	–	–	0.965	0.965	0.965
Uranium, Total	mg/kg	LogNormal	8	8	2	8	–	–	–	–	–	5.375	8.416	10.868	–	–	8.416
Uranium–234	pci/g	Undefined	3	1	0.921	0.921	0.6	0.6	0.507	–	–	–	–	–	0.921	0.921	0.921
Uranium–235/236	pci/g	Undefined	3	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Uranium–238	pci/g	Undefined	3	1	0.754	0.754	0.6	0.6	0.451	–	–	–	–	–	0.754	0.754	0.754
AFP – Sediment																	
Arsenic	mg/kg	Undefined	1	1	10.9	10.9	–	–	10.900	–	–	–	–	–	10.9	10.9	10.9
Beryllium	mg/kg	Undefined	1	1	1.4	1.4	–	–	1.400	–	–	–	–	–	1.4	1.4	1.4

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Table A.6-1
Statistical Summary for Soil/Waste
Active Flyash Pile

Analyte	Units	Distribution	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N)	95%(N)	Est. Mean	UCL(L)	95%(L)	UCL(M)	95%(NP)	Conc. Term
Cesium-137	pci/g	Undefined	1	1	0.086	0.086	–	–	0.086	–	–	–	–	–	0.086	0.086	0.086
Neptunium-237	pci/g	Undefined	1	1	0.038	0.038	–	–	0.038	–	–	–	–	–	0.038	0.038	0.038
Radium-226	pci/g	Undefined	3	3	0.637	1.32	–	–	1.066	–	–	–	–	–	1.32	1.32	1.32
Radium-228	pci/g	Undefined	3	3	0.703	1.08	–	–	0.897	–	–	–	–	–	1.08	1.08	1.08
Strontium-90	pci/g	Undefined	1	0	–	–	0.141	0.141	0.0705	–	–	–	–	–	0.0705	0.0705	–
Technetium-99	pci/g	Undefined	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium-228	pci/g	Undefined	1	1	0.824	0.824	–	–	0.824	–	–	–	–	–	0.824	0.824	0.824
Thorium-230	pci/g	Undefined	1	1	1.47	1.47	–	–	1.470	–	–	–	–	–	1.47	1.47	1.47
Thorium-232	pci/g	Undefined	1	1	0.883	0.883	–	–	0.883	–	–	–	–	–	0.883	0.883	0.883
Uranium, Total	mg/kg	Undefined	5	5	4.53	51.8	–	–	25.886	–	–	–	–	–	51.8	51.8	51.8
Uranium-234	pci/g	Undefined	1	1	2.77	2.77	–	–	2.770	–	–	–	–	–	2.77	2.77	2.77
Uranium-235/236	pci/g	Undefined	1	1	0.163	0.163	–	–	0.163	–	–	–	–	–	0.163	0.163	0.163
Uranium-238	pci/g	Undefined	1	1	2.9	2.9	–	–	2.900	–	–	–	–	–	2.9	2.9	2.9

000598

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Table A.6–2
Statistical Summary for Perched Groundwater
Active Flyash Pile

Analyte	Filtered?	Distribution	Units	# of Samples	# of Hits	Min. Hit	Max. Hit	Min. SQL	Max. SQL	Mean	UCL(N)	95%(N)	Est. Mean	UCL(L	95%(L)	UCL(M)	95%(NP)	Conc. Term
AFP – Perched Groundwater, Inside Battery Limits																		
Arsenic	Unfiltered	Undefined	mg/l	1	1	0.003	0.003	–	–	0.003	–	–	–	–	–	0.0034	0.0034	0.0034
Arsenic	Filtered	Undefined	mg/l	6	1	0.0034	0.0034	0.001	0.2	0.022	–	–	–	–	–	0.0034	0.0034	0.0034
Beryllium	Unfiltered	Undefined	mg/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Beryllium	Filtered	Undefined	mg/l	2	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Cesium–137	Unfiltered	Undefined	pci/l	2	0	–	–	15.7	18	8.425	–	–	–	–	–	9	9	–
Cesium–137	Filtered	Undefined	pci/l	1	0	–	–	17.7	17.7	8.85	–	–	–	–	–	8.85	8.85	–
Neptunium–237	Unfiltered	Undefined	pci/l	5	1	0.48	0.48	0.184	1	0.410	–	–	–	–	–	0.48	0.48	0.480
Neptunium–237	Filtered	Undefined	pci/l	1	1	0.49	0.49	–	–	0.490	–	–	–	–	–	0.49	0.49	0.49
Radium–226	Filtered	Undefined	pci/l	1	1	0.25	0.25	–	–	0.250	–	–	–	–	–	0.25	0.25	0.25
Radium–226	Unfiltered	Undefined	pci/l	5	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium–228	Unfiltered	Undefined	pci/l	5	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Radium–228	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Strontium–90	Unfiltered	Undefined	pci/l	5	1	1.19	1.19	0.818	5	1.8198	–	–	–	–	–	1.19	1.19	1.19
Strontium–90	Filtered	Undefined	pci/l	1	0	–	–	0.82	0.82	0.41	–	–	–	–	–	0.41	0.41	–
Technetium–99	Unfiltered	Undefined	pci/l	7	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Technetium–99	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium–228	Unfiltered	Undefined	pci/l	7	2	0.13	2.93	0.115	1	0.730	–	–	–	–	–	2.93	2.93	2.93
Thorium–228	Filtered	Undefined	pci/l	1	1	0.048	0.048	–	–	0.048	–	–	–	–	–	0.048	0.048	0.048
Thorium–230	Unfiltered	Undefined	pci/l	7	2	0.24	2.78	0.138	1	0.730	–	–	–	–	–	2.78	2.78	2.78
Thorium–230	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Thorium–232	Unfiltered	Undefined	pci/l	5	1	0.032	0.032	0.1	1	0.320	–	–	–	–	–	0.032	0.032	0.032
Thorium–232	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Uranium, Total	Unfiltered	Normal	ug/l	7	7	2.91	52.6	–	–	21.390	33.372	48.230	–	–	–	–	–	33.372
Uranium, Total	Filtered	Undefined	ug/l	1	1	2.47	2.47	–	–	2.470	–	–	–	–	–	2.47	2.47	2.47
Uranium–234	Unfiltered	Normal	pci/l	7	7	1.16	14.2	–	–	6.420	9.972	14.367	–	–	–	–	–	9.972
Uranium–234	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Uranium–235/236	Unfiltered	Undefined	pci/l	7	1	0.56	0.56	0.051	1	0.440	–	–	–	–	–	0.56	0.56	0.560
Uranium–235/236	Filtered	Undefined	pci/l	1	0	–	–	–	–	–	–	–	–	–	–	–	–	–
Uranium–238	Unfiltered	Normal	pci/l	7	7	1.19	15	–	–	6.720	10.547	15.291	–	–	–	–	–	10.547
Uranium–238	Filtered	Undefined	pci/l	1	1	0.93	0.93	–	–	0.930	–	–	–	–	–	0.93	0.93	0.93

Note: The samples in the vicinity of the AFP are limited to those actually within the battery limits.

TABLE A.6-3

SAMPLE LIST - SURFACE SOIL
ACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
112091	10-MAY-93	1979	0.0	2.0	1379893.36	477241.54	1348424.39	477270.90
112129	12-MAY-93	1980	0.0	2.0	1379997.79	477280.38	1348528.82	477309.74
112160	13-MAY-93	1981	0.0	2.0	1379964.33	477366.17	1348495.36	477395.53
112241	12-MAY-93	AFP-SD-02	0.0	0.5	1379970.14	477141.00	1348501.23	477170.36
112248	13-MAY-93	AFP-SD-03	0.0	0.5	1380110.59	477194.96	1348641.68	477224.32
112249	13-MAY-93	AFP-SD-04	0.0	0.5	1380138.55	477324.30	1348669.64	477353.66
112251	13-MAY-93	AFP-SD-05	0.0	0.5	1380057.20	477385.31	1348588.29	477414.67
112252	14-MAY-93	AFP-SS-01	0.0	0.5	1379810.07	477222.60	1348341.16	477251.96
112254	14-MAY-93	AFP-SS-02	0.0	0.5	1379942.88	477200.59	1348473.97	477229.95
112255	14-MAY-93	AFP-SS-03	0.0	0.5	1380078.70	477236.04	1348609.79	477265.40
112257	14-MAY-93	AFP-SS-04	0.0	0.5	1380105.04	477283.50	1348636.13	477312.86
112258	14-MAY-93	AFP-SS-05	0.0	0.5	1380040.82	477355.37	1348571.91	477384.73
112259	14-MAY-93	AFP-SS-06	0.0	0.5	1379837.15	477321.47	1348368.24	477350.83
112264	15-MAY-93	AFP-SD-01	0.0	0.5	1379750.74	477174.72	1348281.83	477204.08

000500

TABLE A.6-4

SAMPLE LIST - ASH SAMPLES
ACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
067146	29-JUN-91	1726	4.5	6.0	1380039.59	477317.49	1348570.61	477346.84
067148	01-JUL-91	1726	7.5	9.0	1380039.59	477317.49	1348570.61	477346.84
067149	01-JUL-91	1726	9.0	10.5	1380039.59	477317.49	1348570.61	477346.84
067153	01-JUL-91	1726	15.0	16.5	1380039.59	477317.49	1348570.61	477346.84
067154	01-JUL-91	1726	16.5	18.0	1380039.59	477317.49	1348570.61	477346.84
067155	01-JUL-91	1726	18.0	19.5	1380039.59	477317.49	1348570.61	477346.84
067156	01-JUL-91	1726	19.5	21.0	1380039.59	477317.49	1348570.61	477346.84
067166	11-JUL-91	1723	3.0	4.5	1379955.88	477243.17	1348486.90	477272.52
067167	11-JUL-91	1723	4.5	6.0	1379955.88	477243.17	1348486.90	477272.52
067172	11-JUL-91	1723	12.0	13.5	1379955.88	477243.17	1348486.90	477272.52
067173	11-JUL-91	1723	13.5	15.0	1379955.88	477243.17	1348486.90	477272.52
067192	13-JUL-91	1724	3.0	4.5	1379830.96	477239.70	1348361.98	477269.05
067193	13-JUL-91	1724	4.5	6.0	1379830.96	477239.70	1348361.98	477269.05
067200	14-JUL-91	1724	14.5	16.0	1379830.96	477239.70	1348361.98	477269.05
067201	14-JUL-91	1724	16.0	17.5	1379830.96	477239.70	1348361.98	477269.05
067503	16-OCT-91	1820	1.5	3.0	1379888.20	477414.33	1348419.22	477443.68
067504	16-OCT-91	1820	3.0	4.5	1379888.20	477414.33	1348419.22	477443.68
067505	16-OCT-91	1820	6.0	7.5	1379888.20	477414.33	1348419.22	477443.68
067706	22-FEB-92	1846	6.0	7.5	1379953.49	477221.45	1348484.51	477250.80
067711	22-FEB-92	1846	13.5	15.0	1379953.49	477221.45	1348484.51	477250.80
112091	10-MAY-93	1979	0.0	2.0	1379893.36	477241.54	1348424.39	477270.90
112092	10-MAY-93	1979	2.0	4.0	1379893.36	477241.54	1348424.39	477270.90
112117	10-MAY-93	1979	20.0	22.0	1379893.36	477241.54	1348424.39	477270.90
112129	12-MAY-93	1980	0.0	2.0	1379997.79	477280.38	1348528.82	477309.74
112130	12-MAY-93	1980	2.0	4.0	1379997.79	477280.38	1348528.82	477309.74
112145	12-MAY-93	1980	13.0	15.0	1379997.79	477280.38	1348528.82	477309.74
112153	12-MAY-93	1980	20.0	22.0	1379997.79	477280.38	1348528.82	477309.74
112160	13-MAY-93	1981	0.0	2.0	1379964.33	477366.17	1348495.36	477395.53
112161	13-MAY-93	1981	2.0	4.0	1379964.33	477366.17	1348495.36	477395.53
112167	13-MAY-93	1981	8.0	10.0	1379964.33	477366.17	1348495.36	477395.53
112241	12-MAY-93	AFP-SD-02	0.0	0.5	1379970.14	477141.00	1348501.23	477170.36
112246	13-MAY-93	AFP-SD-06	0.0	0.5	1379983.50	477497.26	1348514.59	477526.62
112248	13-MAY-93	AFP-SD-03	0.0	0.5	1380110.59	477194.96	1348641.68	477224.32
112249	13-MAY-93	AFP-SD-04	0.0	0.5	1380138.55	477324.30	1348669.64	477353.66
112251	13-MAY-93	AFP-SD-05	0.0	0.5	1380057.20	477385.31	1348588.29	477414.67

TABLE A.6-4
(Continued)

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
112252	14-MAY-93	AFP-SS-01	0.0	0.5	1379810.07	477222.60	1348341.16	477251.96
112254	14-MAY-93	AFP-SS-02	0.0	0.5	1379942.88	477200.59	1348473.97	477229.95
112255	14-MAY-93	AFP-SS-03	0.0	0.5	1380078.70	477236.04	1348609.79	477265.40
112257	14-MAY-93	AFP-SS-04	0.0	0.5	1380105.04	477283.50	1348636.13	477312.86
112258	14-MAY-93	AFP-SS-05	0.0	0.5	1380040.82	477355.37	1348571.91	477384.73
112259	14-MAY-93	AFP-SS-06	0.0	0.5	1379837.15	477321.47	1348368.24	477350.83
112264	15-MAY-93	AFP-SD-01	0.0	0.5	1379750.74	477174.72	1348281.83	477204.08

000502

TABLE A.6-5

SAMPLE LIST - IMPACTED TILL
ACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
007217	13-OCT-87	1048	1.5	3.0	1379877.21	477477.45	1348408.24	477506.81
007220	13-OCT-87	1048	1.5	3.0	1379877.21	477477.45	1348408.24	477506.81
067217	16-JUL-91	1724	40.0	41.5	1379830.96	477239.70	1348361.98	477269.05
067218	16-JUL-91	1724	41.5	43.0	1379830.96	477239.70	1348361.98	477269.05
067506	16-OCT-91	1820	9.5	12.0	1379888.20	477414.33	1348419.22	477443.68
112123	11-MAY-93	1979	25.5	27.5	1379893.36	477241.54	1348424.39	477270.90
112157	13-MAY-92	1980	24.0	26.0	1379997.79	477280.38	1348528.82	477309.74
112180	14-MAY-93	1981	17.0	19.0	1379964.33	477366.17	1348495.36	477395.53

TABLE A.6-6

SAMPLE LIST - OTHER TILL
ACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
007207	07-OCT-87	1045	7.5	9.0	1379751.55	477134.70	1348282.58	477164.05
067182	12-JUL-91	1723	26.0	27.5	1379955.88	477243.17	1348486.90	477272.52
067184	12-JUL-91	1723	29.0	30.5	1379955.88	477243.17	1348486.90	477272.52
112126	11-MAY-93	1979	29.5	31.5	1379893.36	477241.54	1348424.39	477270.90
112181	14-MAY-93	1981	19.0	21.0	1379964.33	477366.17	1348495.36	477395.53

000604

TABLE A.6-7

SAMPLE LIST - GMA SOILS
INSIDE BATTERY LIMITS
ACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
008948	06-DEC-88	2045	35.0	36.5	1379760.54	477129.91	1348291.56	477159.25
020498	30-NOV-88	2048	65.0	66.5	1379866.55	477480.23	1348397.57	477509.58
032609	09-MAY-90	3045	105.0	106.5	1379742.30	477139.87	1348273.32	477169.21
098010	16-MAY-89	1406	0.0	0.5	1380168.90	477049.40	1348699.92	477078.75
098011	16-MAY-89	1406	1.5	2.0	1380168.90	477049.40	1348699.92	477078.75
098014	16-MAY-89	1406	3.5	4.0	1380168.90	477049.40	1348699.92	477078.75
098017	16-MAY-89	1406	6.0	6.5	1380168.90	477049.40	1348699.92	477078.75
098024	16-MAY-89	1406	13.5	14.0	1380168.90	477049.40	1348699.92	477078.75
098028	16-MAY-89	1406	16.5	17.0	1380168.90	477049.40	1348699.92	477078.75

TABLE A.6-8

SAMPLE LIST - SEDIMENT
ACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
009044	27-JUN-88	ASIT-004	0.0	0.5	1379750.10	477453.00	1348281.12	477482.35
009045	27-JUN-88	ASIT-005	0.0	0.5	1379701.80	477299.30	1348232.82	477328.64
009046	27-JUN-88	ASIT-006	0.0	0.5	1380073.00	477455.20	1348604.02	477484.55
009047	28-JUN-88	ASIT-007	0.0	0.5	1380132.00	477427.70	1348663.02	477457.05
112246	13-MAY-93	AFP-SD-06	0.0	0.5	1379983.50	477497.26	1348514.59	477526.62

000606

6645

TABLE A.6-9

SAMPLE LIST - PERCHED GROUNDWATER
INSIDE BATTERY LIMITS
ACTIVE FLYASH PILE

Sample ID	Sample Date	Boring	Top Depth	Bottom Depth	Easting 1927	Northing 1927	Easting 1983	Northing 1983
003132	27-APR-88	1048	N\A	N\A	1379877.21	477477.45	1348408.24	477506.81
003368	24-JUL-88	1048	N\A	N\A	1379877.21	477477.45	1348408.24	477506.81
003647	23-OCT-88	1048	N\A	N\A	1379877.21	477477.45	1348408.24	477506.81
003856	22-JAN-89	1048	N\A	N\A	1379877.21	477477.45	1348408.24	477506.81
066828	13-DEC-89	1045	N\A	N\A	1379751.55	477134.70	1348282.58	477164.05
066831	16-DEC-89	1048	N\A	N\A	1379877.21	477477.45	1348408.24	477506.81
110900	28-APR-93	1048	N\A	N\A	1379877.21	477477.45	1348408.24	477506.81
112000	29-APR-93	1045	N\A	N\A	1379751.55	477134.70	1348282.58	477164.05

TABLE A.6-10
ACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112091	Arsenic	1979	145	mg/kg	-	145	100.00%
112254	Arsenic	AFP-SS-02	129	mg/kg	-	129	92.30%
112160	Arsenic	1981	115	mg/kg	J	115	84.61%
112129	Arsenic	1980	94.8	mg/kg	-	94.8	76.92%
112255	Arsenic	AFP-SS-03	89.4	mg/kg	-	89.4	69.23%
112258	Arsenic	AFP-SS-05	82.8	mg/kg	-	82.8	61.53%
112257	Arsenic	AFP-SS-04	69.1	mg/kg	-	69.1	53.84%
112252	Arsenic	AFP-SS-01	64.2	mg/kg	-	64.2	46.15%
112259	Arsenic	AFP-SS-06	53.1	mg/kg	-	53.1	38.46%
112251	Arsenic	AFP-SD-05	50.4	mg/kg	-	50.4	30.76%
112264	Arsenic	AFP-SD-01	37	mg/kg	-	37	23.07%
112249	Arsenic	AFP-SD-04	27.2	mg/kg	-	27.2	15.38%
112248	Arsenic	AFP-SD-03	13.2	mg/kg	-	13.2	7.69%
112241	Arsenic	AFP-SD-02	10.4	mg/kg	-	10.4	0.00%

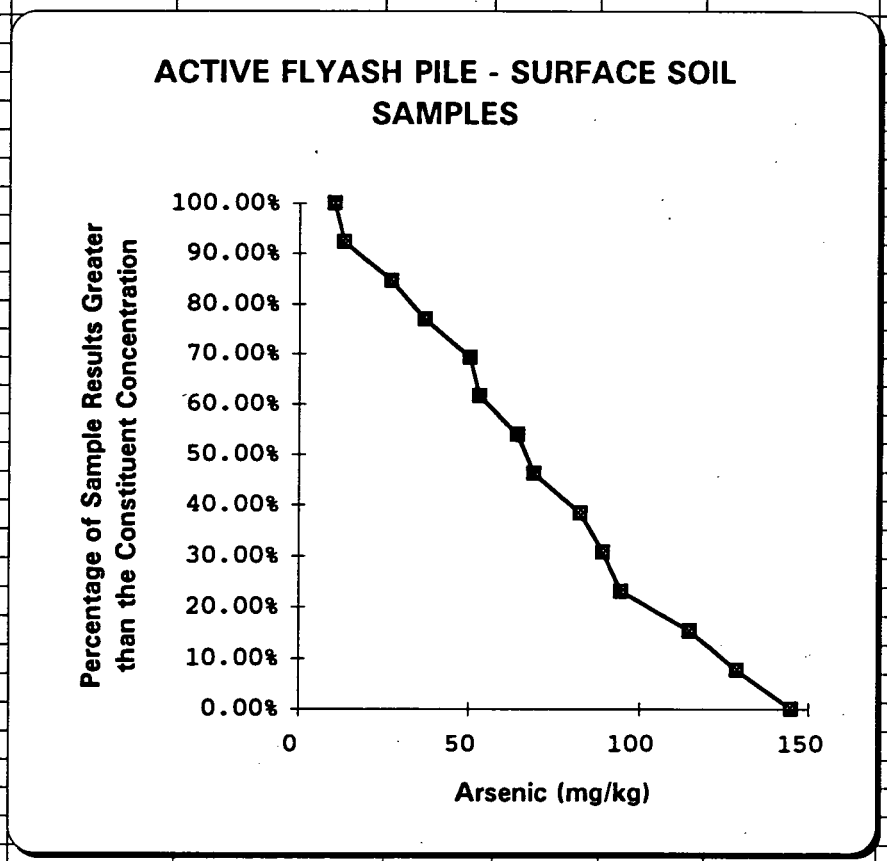


TABLE A.6-10
ACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112129	Beryllium	1980	6.4	mg/kg	-	6.4	100.00%
112160	Beryllium	1981	5.8	mg/kg	-	5.8	92.30%
112259	Beryllium	AFP-SS-06	5.7	mg/kg	-	5.7	84.61%
112091	Beryllium	1979	5.4	mg/kg	-	5.4	76.92%
112258	Beryllium	AFP-SS-05	4.6	mg/kg	-	4.6	69.23%
112255	Beryllium	AFP-SS-03	4.5	mg/kg	-	4.5	61.53%
112254	Beryllium	AFP-SS-02	4.3	mg/kg	-	4.3	46.15%
112257	Beryllium	AFP-SS-04	4.3	mg/kg	-	4.3	46.15%
112251	Beryllium	AFP-SD-05	3.1	mg/kg	-	3.1	38.46%
112252	Beryllium	AFP-SS-01	3	mg/kg	-	3	30.76%
112249	Beryllium	AFP-SD-04	2.1	mg/kg	-	2.1	23.07%
112264	Beryllium	AFP-SD-01	2	mg/kg	-	2	15.38%
112241	Beryllium	AFP-SD-02	1.9	mg/kg	-	1.9	7.69%
112248	Beryllium	AFP-SD-03	1.5	mg/kg	-	1.5	0.00%

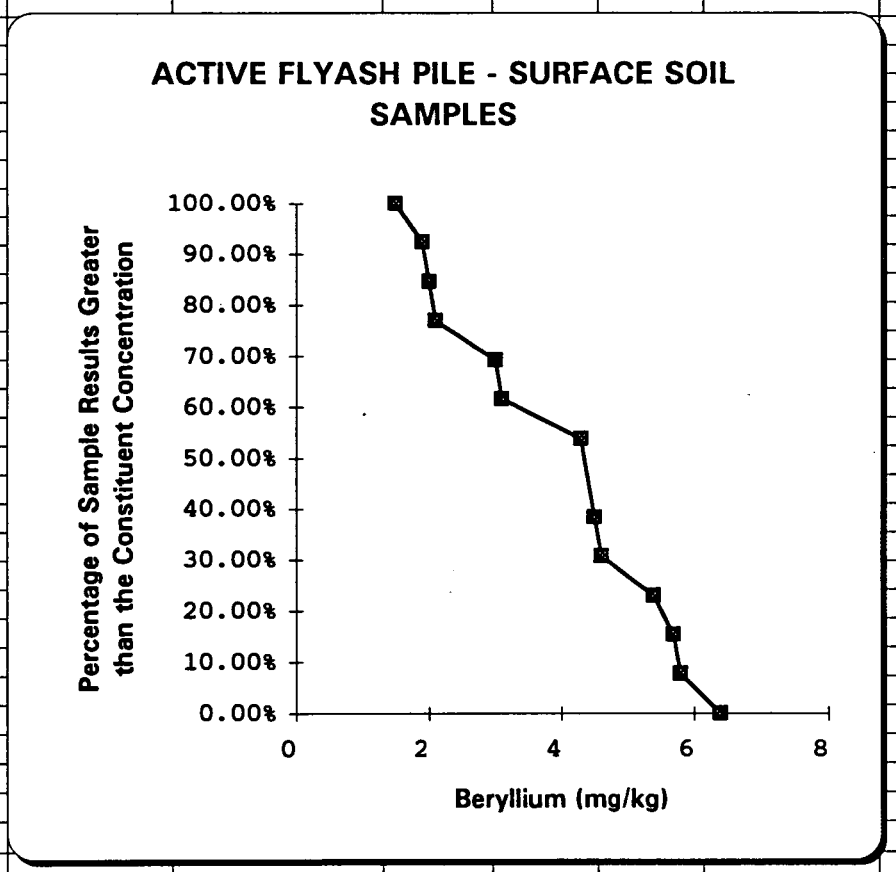


TABLE A.6-10
ACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112241	Cesium-137	AFP-SD-02	0.919	pci/g	-	0.919	100.00%
112248	Cesium-137	AFP-SD-03	0.459	pci/g	-	0.459	92.30%
112251	Cesium-137	AFP-SD-05	0.171	pci/g	J	0.171	84.60%
112249	Cesium-137	AFP-SD-04	0.0721	pci/g	J	0.0721	76.90%
112264	Cesium-137	AFP-SD-01	0.122	pci/g	UJ	0.061	69.20%
112091	Cesium-137	1979	0.115	pci/g	UJ	0.0575	61.50%
112252	Cesium-137	AFP-SS-01	0.11	pci/g	UJ	0.055	53.80%
112257	Cesium-137	AFP-SS-04	0.109	pci/g	UJ	0.0545	46.10%
112259	Cesium-137	AFP-SS-06	0.107	pci/g	UJ	0.0535	38.40%
112254	Cesium-137	AFP-SS-02	0.09	pci/g	UJ	0.045	30.70%
112129	Cesium-137	1980	0.0899	pci/g	UJ	0.04495	23.00%
112258	Cesium-137	AFP-SS-05	0.088	pci/g	UJ	0.044	15.30%
112255	Cesium-137	AFP-SS-03	0.0829	pci/g	UJ	0.04145	7.60%
112160	Cesium-137	1981	0.08	pci/g	UJ	0.04	.00%

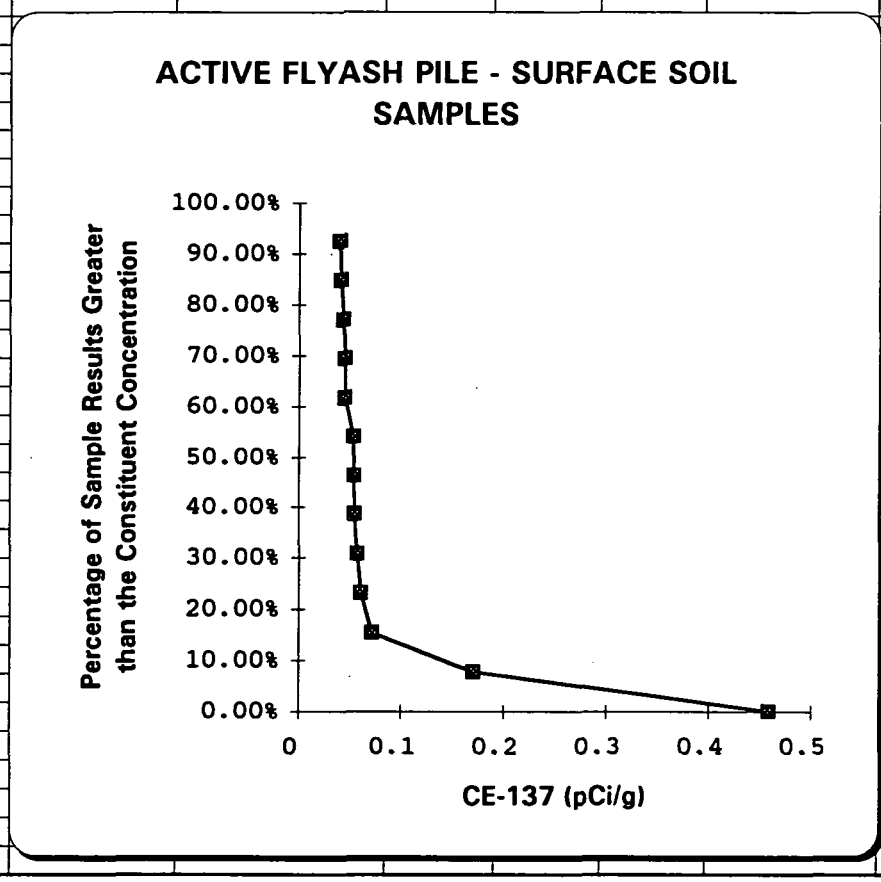


TABLE A.6-10
ACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112160	Neptunium-237	1981	0.3	pci/g	N	0.3	100.00%
112249	Neptunium-237	AFP-SD-04	0.124	pci/g	N	0.124	80.00%
112241	Neptunium-237	AFP-SD-02	0.12	pci/g	N	0.12	60.00%
112129	Neptunium-237	1980	0.0825	pci/g	N	0.0825	40.00%
112251	Neptunium-237	AFP-SD-05	0.058	pci/g	N	0.058	20.00%
112248	Neptunium-237	AFP-SD-03	0.057	pci/g	N	0.057	0.00%

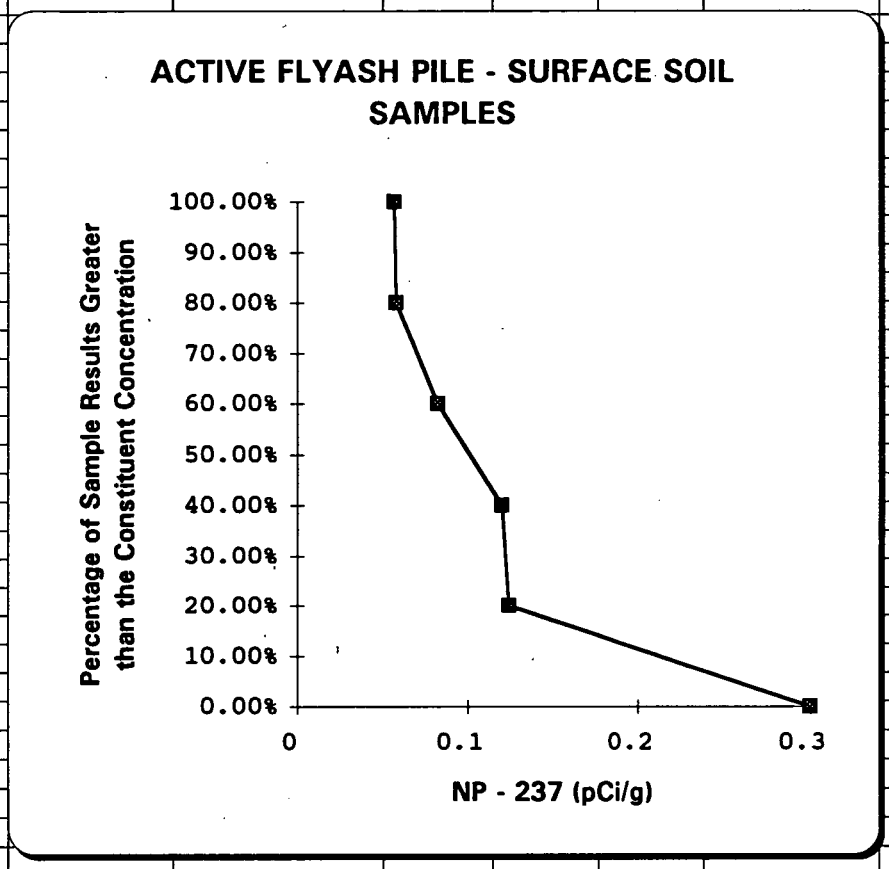


TABLE A.6-10
ACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112160	Radium-226	1981	4.61	pci/g	-	4.61	100.00%
112259	Radium-226	AFP-SS-06	3.8	pci/g	-	3.8	92.30%
112257	Radium-226	AFP-SS-04	3.73	pci/g	-	3.73	84.61%
112255	Radium-226	AFP-SS-03	3.6	pci/g	-	3.6	76.92%
112258	Radium-226	AFP-SS-05	3.53	pci/g	-	3.53	61.53%
112264	Radium-226	AFP-SD-01	3.53	pci/g	-	3.53	61.53%
112129	Radium-226	1980	3.45	pci/g	-	3.45	53.84%
112091	Radium-226	1979	3.32	pci/g	-	3.32	46.15%
112252	Radium-226	AFP-SS-01	3.29	pci/g	-	3.29	38.46%
112254	Radium-226	AFP-SS-02	3.28	pci/g	-	3.28	30.76%
112251	Radium-226	AFP-SD-05	2.75	pci/g	-	2.75	23.07%
112249	Radium-226	AFP-SD-04	1.96	pci/g	-	1.96	15.38%
112248	Radium-226	AFP-SD-03	1.38	pci/g	-	1.38	7.69%
112241	Radium-226	AFP-SD-02	1.3	pci/g	-	1.3	0.00%

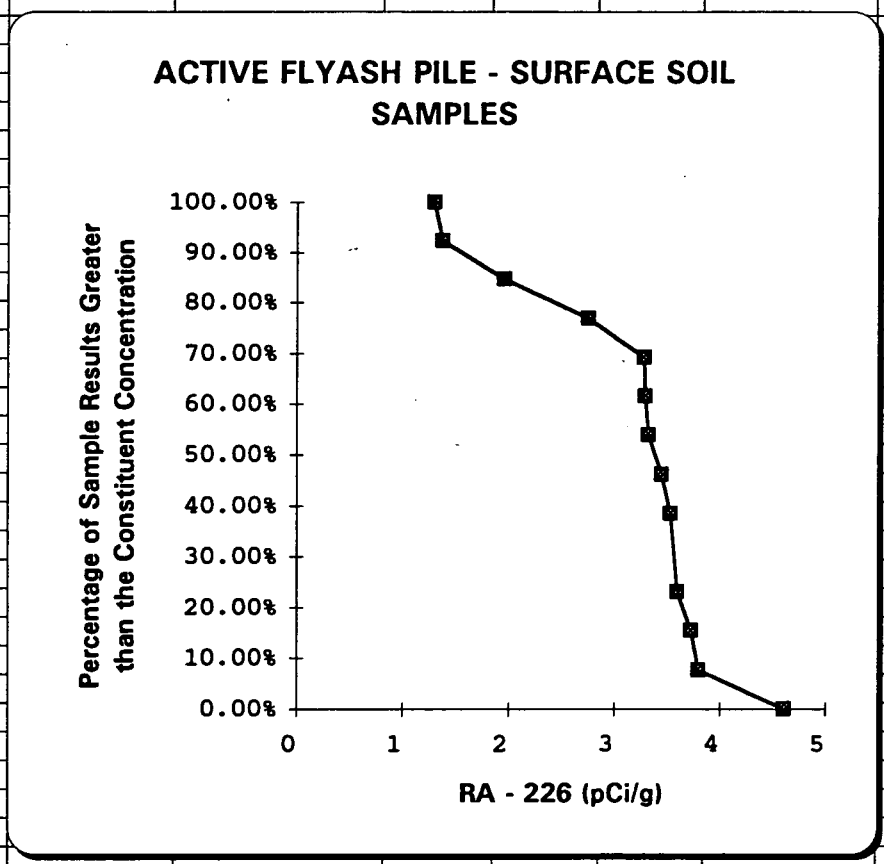


TABLE A.6-10
ACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112160	Radium-228	1981	3.17	pci/g	-	3.17	100.00%
112257	Radium-228	AFP-SS-04	2.98	pci/g	-	2.98	92.30%
112255	Radium-228	AFP-SS-03	2.92	pci/g	-	2.92	76.92%
112264	Radium-228	AFP-SD-01	2.92	pci/g	-	2.92	76.92%
112252	Radium-228	AFP-SS-01	2.9	pci/g	-	2.9	69.23%
112091	Radium-228	1979	2.86	pci/g	-	2.86	61.53%
112259	Radium-228	AFP-SS-06	2.8	pci/g	-	2.8	53.84%
112258	Radium-228	AFP-SS-05	2.75	pci/g	-	2.75	46.15%
112129	Radium-228	1980	2.69	pci/g	-	2.69	38.46%
112254	Radium-228	AFP-SS-02	2.58	pci/g	-	2.58	30.76%
112251	Radium-228	AFP-SD-05	2.48	pci/g	-	2.48	23.07%
112249	Radium-228	AFP-SD-04	1.67	pci/g	-	1.67	15.38%
112248	Radium-228	AFP-SD-03	1.29	pci/g	-	1.29	7.69%
112241	Radium-228	AFP-SD-02	1.01	pci/g	-	1.01	0.00%

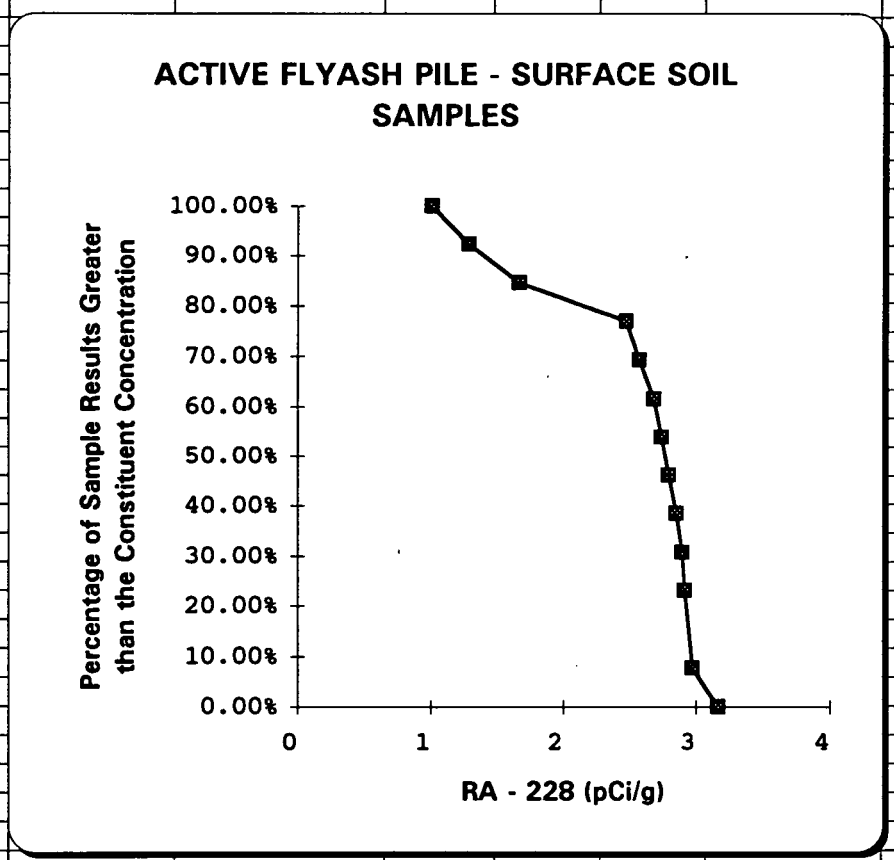


TABLE A.6-10
ACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112254	Strontium-90	AFP-SS-02	4.47	pci/g	J	4.47	100.00%
112252	Strontium-90	AFP-SS-01	4.24	pci/g	J	4.24	92.30%
112257	Strontium-90	AFP-SS-04	1.73	pci/g	J	1.73	84.60%
112160	Strontium-90	1981	0.76	pci/g	J	0.76	76.90%
112255	Strontium-90	AFP-SS-03	0.386	pci/g	J	0.386	69.20%
112241	Strontium-90	AFP-SD-02	0.227	pci/g	J	0.227	61.50%
112251	Strontium-90	AFP-SD-05	0.214	pci/g	J	0.214	53.80%
112129	Strontium-90	1980	0.324	pci/g	UJ	0.162	46.10%
112259	Strontium-90	AFP-SS-06	0.293	pci/g	UJ	0.1465	38.40%
112258	Strontium-90	AFP-SS-05	0.281	pci/g	UJ	0.1405	30.70%
112091	Strontium-90	1979	0.255	pci/g	UJ	0.1275	23.00%
112264	Strontium-90	AFP-SD-01	0.245	pci/g	UJ	0.1225	15.30%
112248	Strontium-90	AFP-SD-03	0.156	pci/g	UJ	0.078	7.60%
112249	Strontium-90	AFP-SD-04	0.153	pci/g	UJ	0.0765	.00%

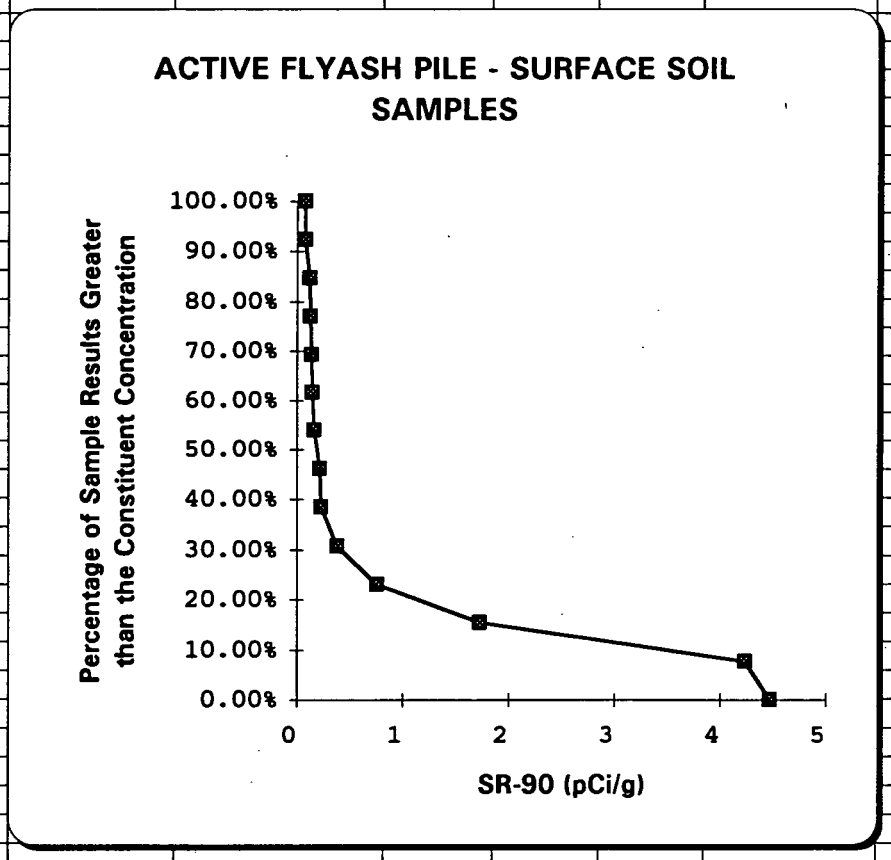


TABLE A.6-10
ACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112241	Technetium-99	AFP-SD-02	0.533	pci/g	UJ	0.2665	100.00%
112091	Technetium-99	1979	0.525	pci/g	UJ	0.2625	92.30%
112160	Technetium-99	1981	0.46	pci/g	UJ	0.23	84.61%
112255	Technetium-99	AFP-SS-03	0.429	pci/g	UJ	0.2145	76.92%
112129	Technetium-99	1980	0.414	pci/g	UJ	0.207	69.23%
112257	Technetium-99	AFP-SS-04	0.396	pci/g	UJ	0.198	61.53%
112254	Technetium-99	AFP-SS-02	0.38	pci/g	UJ	0.19	53.84%
112258	Technetium-99	AFP-SS-05	0.376	pci/g	UJ	0.188	46.15%
112252	Technetium-99	AFP-SS-01	0.36	pci/g	UJ	0.18	38.46%
112264	Technetium-99	AFP-SD-01	0.353	pci/g	UJ	0.1765	30.76%
112259	Technetium-99	AFP-SS-06	0.35	pci/g	UJ	0.175	23.07%
112249	Technetium-99	AFP-SD-04	0.31	pci/g	UJ	0.155	15.38%
112248	Technetium-99	AFP-SD-03	0.298	pci/g	UJ	0.149	7.69%
112251	Technetium-99	AFP-SD-05	0.296	pci/g	UJ	0.148	0.00%

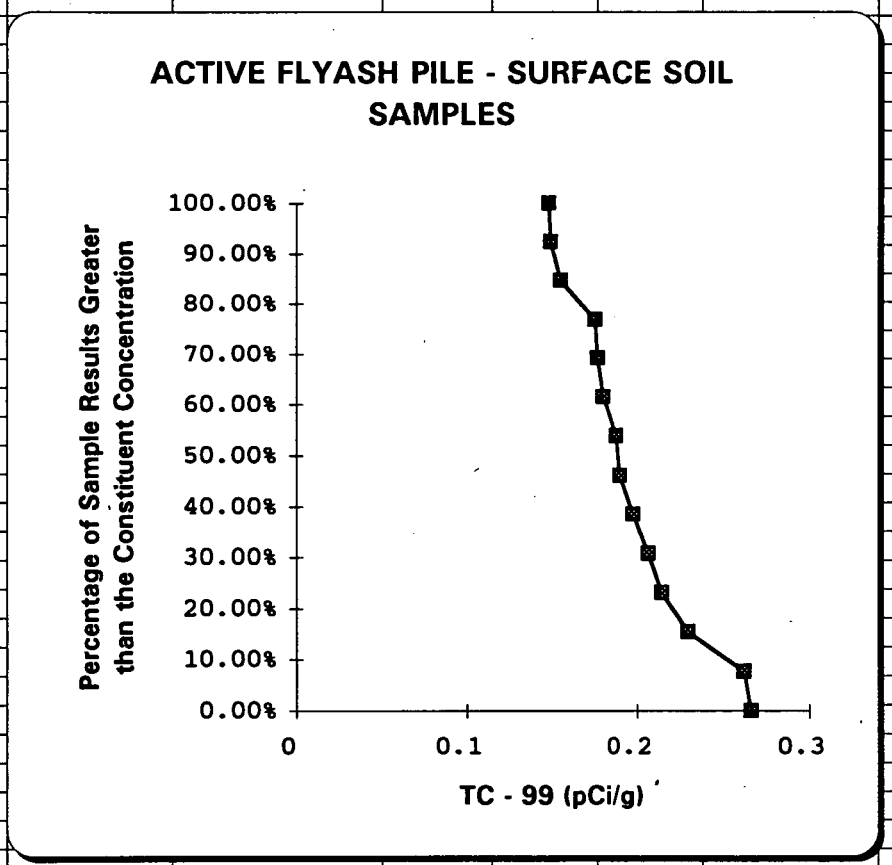


TABLE A.6-10
ACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112160	Thorium-228	1981	3.81	pci/g	-	3.81	100.00%
112252	Thorium-228	AFP-SS-01	2.56	pci/g	J	2.56	92.30%
112257	Thorium-228	AFP-SS-04	2.51	pci/g	J	2.51	84.61%
112259	Thorium-228	AFP-SS-06	2.41	pci/g	J	2.41	76.92%
112129	Thorium-228	1980	2.39	pci/g	J	2.39	69.23%
112255	Thorium-228	AFP-SS-03	2.38	pci/g	J	2.38	53.84%
112264	Thorium-228	AFP-SD-01	2.38	pci/g	J	2.38	53.84%
112091	Thorium-228	1979	2.35	pci/g	--	2.35	46.15%
112254	Thorium-228	AFP-SS-02	2.34	pci/g	J	2.34	38.46%
112258	Thorium-228	AFP-SS-05	2.23	pci/g	J	2.23	30.76%
112251	Thorium-228	AFP-SD-05	1.78	pci/g	-	1.78	23.07%
112249	Thorium-228	AFP-SD-04	1.4	pci/g	-	1.4	15.38%
112248	Thorium-228	AFP-SD-03	1.09	pci/g	-	1.09	7.69%
112241	Thorium-228	AFP-SD-02	0.805	pci/g	J	0.805	0.00%

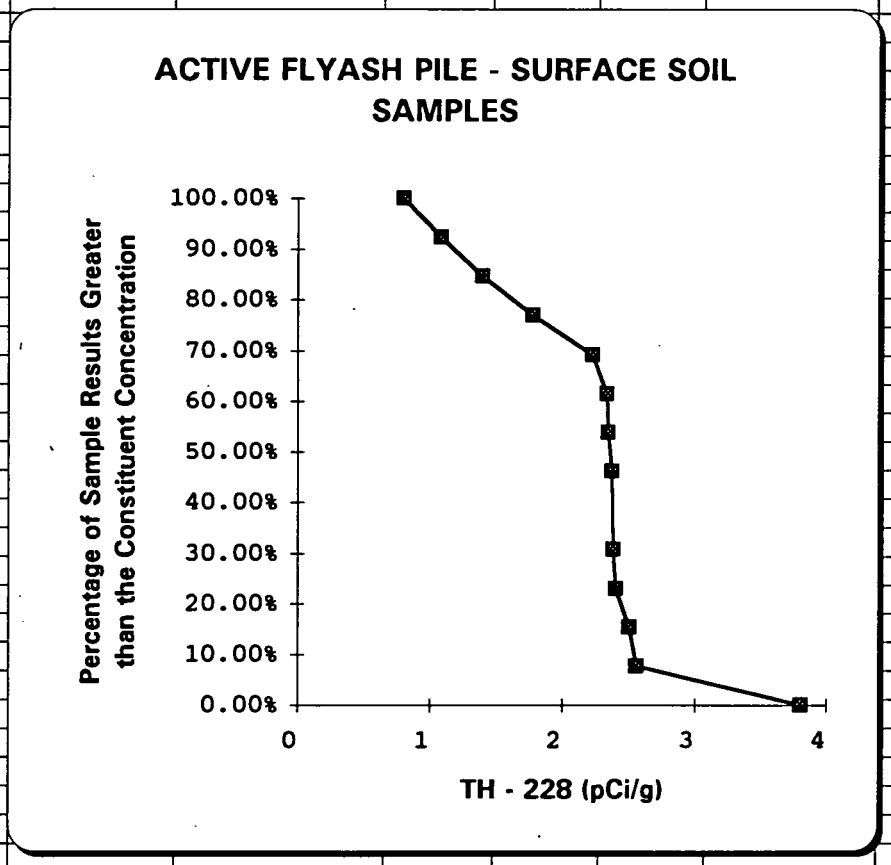


TABLE A.6-10
ACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112160	Thorium-232	1981	3.74	pci/g	-	3.74	100.00%
112257	Thorium-232	AFP-SS-04	2.55	pci/g	J	2.55	92.30%
112259	Thorium-232	AFP-SS-06	2.53	pci/g	J	2.53	84.61%
112252	Thorium-232	AFP-SS-01	2.45	pci/g	J	2.45	76.92%
112129	Thorium-232	1980	2.44	pci/g	J	2.44	69.23%
112264	Thorium-232	AFP-SD-01	2.41	pci/g	J	2.41	61.53%
112254	Thorium-232	AFP-SS-02	2.34	pci/g	J	2.34	53.84%
112255	Thorium-232	AFP-SS-03	2.13	pci/g	J	2.13	46.15%
112258	Thorium-232	AFP-SS-05	2.1	pci/g	J	2.1	38.46%
112091	Thorium-232	1979	2	pci/g	-	2	30.76%
112251	Thorium-232	AFP-SD-05	1.81	pci/g	-	1.81	23.07%
112249	Thorium-232	AFP-SD-04	1.61	pci/g	-	1.61	15.38%
112248	Thorium-232	AFP-SD-03	1.23	pci/g	-	1.23	7.69%
112241	Thorium-232	AFP-SD-02	0.931	pci/g	J	0.931	0.00%

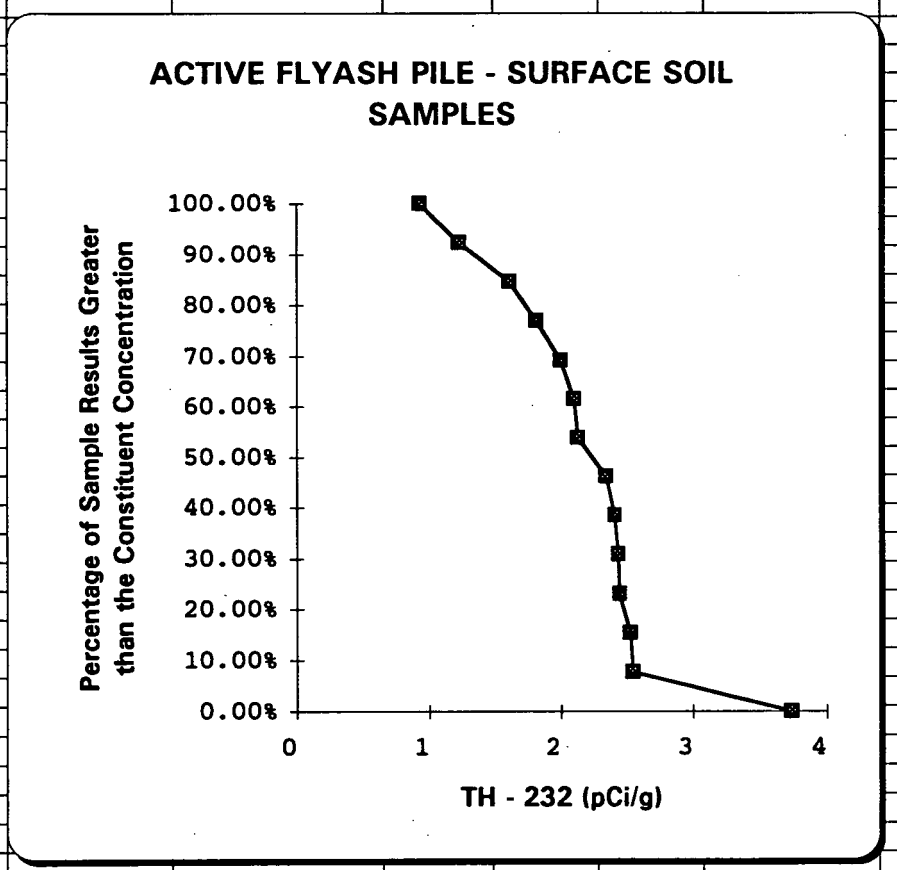


TABLE A.6-10
ACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112264	Uranium, Total	AFP-SD-01	14.8	mg/kg	-	14.8	100.00%
112259	Uranium, Total	AFP-SS-06	14.2	mg/kg	-	14.2	92.30%
112241	Uranium, Total	AFP-SD-02	13.6	mg/kg	-	13.6	84.61%
112160	Uranium, Total	1981	13.3	mg/kg	J	13.3	76.92%
112252	Uranium, Total	AFP-SS-01	13.1	mg/kg	J	13.1	69.23%
112258	Uranium, Total	AFP-SS-05	12.7	mg/kg	-	12.7	61.53%
112251	Uranium, Total	AFP-SD-05	12.5	mg/kg	-	12.5	53.84%
112091	Uranium, Total	1979	10.78	mg/kg	-	10.78	46.15%
112248	Uranium, Total	AFP-SD-03	10.7	mg/kg	-	10.7	38.46%
112257	Uranium, Total	AFP-SS-04	10.4	mg/kg	-	10.4	30.76%
112249	Uranium, Total	AFP-SD-04	10.2	mg/kg	-	10.2	23.07%
112255	Uranium, Total	AFP-SS-03	10	mg/kg	-	10	15.38%
112254	Uranium, Total	AFP-SS-02	8.44	mg/kg	J	8.44	7.69%
112129	Uranium, Total	1980	7.86	mg/kg	-	7.86	0.00%

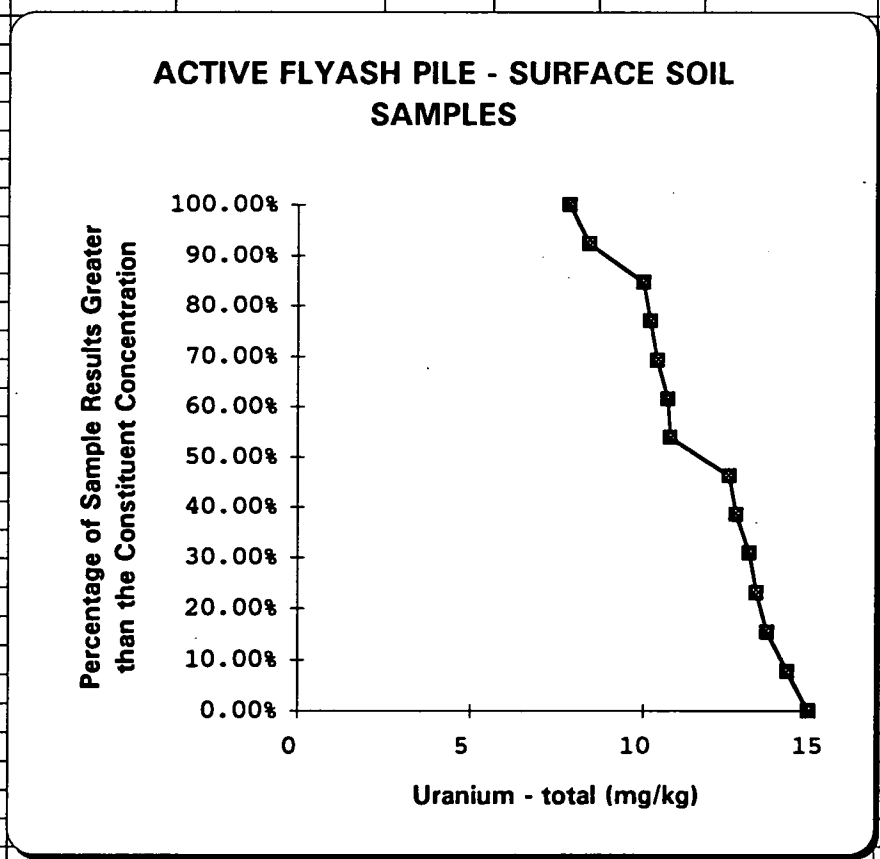
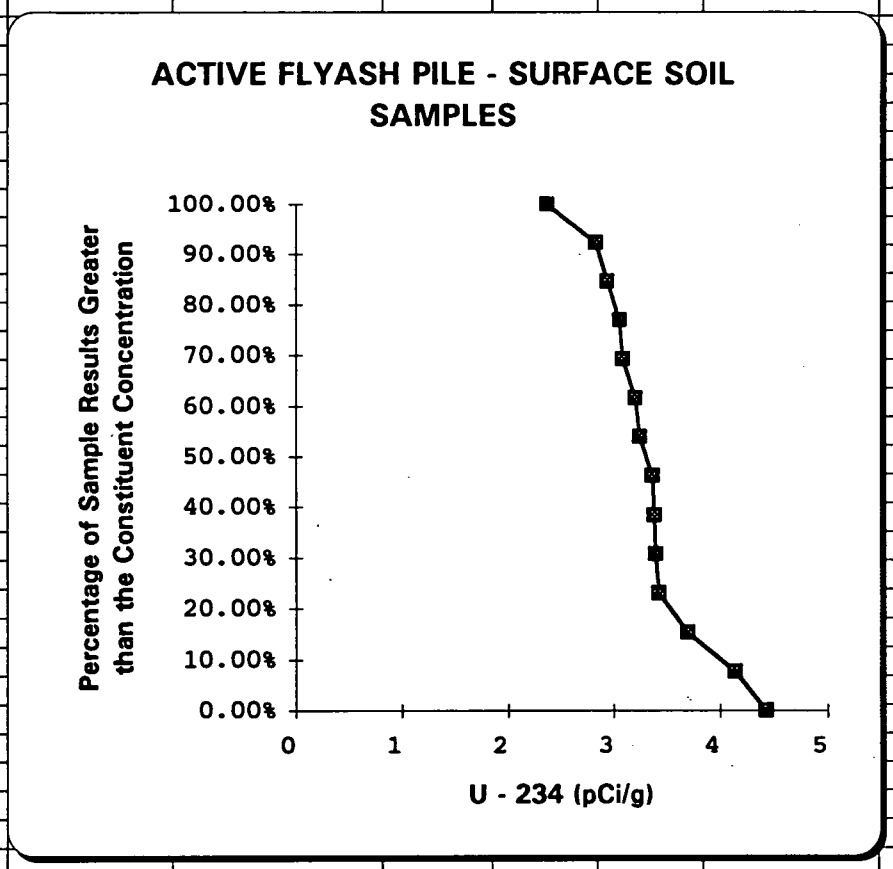


TABLE A.6-10
ACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112259	Uranium-234	AFP-SS-06	4.43	pci/g	-	4.43	100.00%
112241	Uranium-234	AFP-SD-02	4.14	pci/g	-	4.14	92.30%
112258	Uranium-234	AFP-SS-05	3.7	pci/g	-	3.7	84.61%
112129	Uranium-234	1980	3.43	pci/g	-	3.43	76.92%
112257	Uranium-234	AFP-SS-04	3.4	pci/g	-	3.4	69.23%
112264	Uranium-234	AFP-SD-01	3.39	pci/g	J	3.39	61.53%
112160	Uranium-234	1981	3.37	pci/g	-	3.37	53.84%
112251	Uranium-234	AFP-SD-05	3.25	pci/g	-	3.25	46.15%
112255	Uranium-234	AFP-SS-03	3.21	pci/g	-	3.21	38.46%
112254	Uranium-234	AFP-SS-02	3.09	pci/g	-	3.09	30.76%
112252	Uranium-234	AFP-SS-01	3.06	pci/g	-	3.06	23.07%
112091	Uranium-234	1979	2.94	pci/g	-	2.94	15.38%
112248	Uranium-234	AFP-SD-03	2.83	pci/g	-	2.83	7.69%
112249	Uranium-234	AFP-SD-04	2.37	pci/g	-	2.37	0.00%



Percent

TABLE A.6-10
ACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112264	Uranium-235/236	AFP-SD-01	0.199	pci/g	J	0.199	100.00%
112241	Uranium-235/236	AFP-SD-02	0.196	pci/g	J	0.196	92.30%
112160	Uranium-235/236	1981	0.19	pci/g	-	0.19	84.61%
112255	Uranium-235/236	AFP-SS-03	0.178	pci/g	J	0.178	76.92%
112249	Uranium-235/236	AFP-SD-04	0.173	pci/g	J	0.173	69.23%
112254	Uranium-235/236	AFP-SS-02	0.16	pci/g	J	0.16	61.53%
112258	Uranium-235/236	AFP-SS-05	0.159	pci/g	J	0.159	53.84%
112251	Uranium-235/236	AFP-SD-05	0.152	pci/g	J	0.152	46.15%
112257	Uranium-235/236	AFP-SS-04	0.151	pci/g	J	0.151	38.46%
112248	Uranium-235/236	AFP-SD-03	0.13	pci/g	J	0.13	30.76%
112252	Uranium-235/236	AFP-SS-01	0.12	pci/g	J	0.12	23.07%
112259	Uranium-235/236	AFP-SS-06	0.106	pci/g	J	0.106	15.38%
112091	Uranium-235/236	1979	0.082	pci/g	J	0.082	7.69%
112129	Uranium-235/236	1980	0.0835	pci/g	UJ	0.04175	0.00%

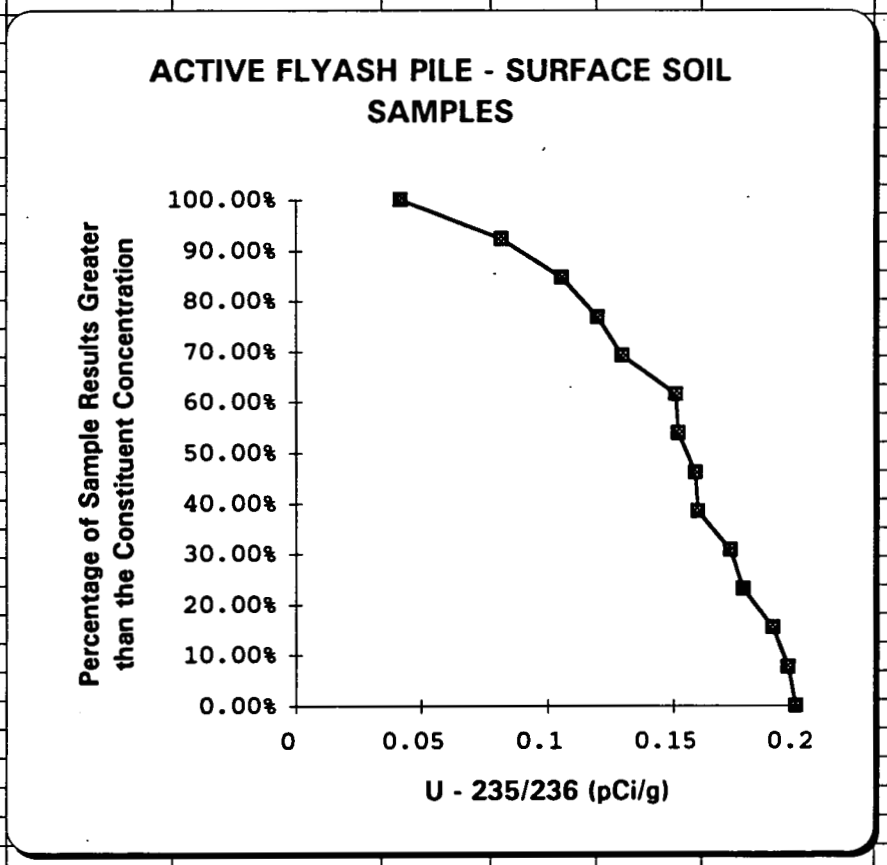


TABLE A.6-10
ACTIVE FLYASH PILE - SURFACE SOIL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112241	Uranium-238	AFP-SD-02	4.39	pci/g	-	4.39	100.00%
112259	Uranium-238	AFP-SS-06	3.9	pci/g	-	3.9	92.30%
112160	Uranium-238	1981	3.67	pci/g	-	3.67	84.61%
112251	Uranium-238	AFP-SD-05	3.62	pci/g	-	3.62	76.92%
112257	Uranium-238	AFP-SS-04	3.5	pci/g	-	3.5	69.23%
112129	Uranium-238	1980	3.47	pci/g	-	3.47	61.53%
112264	Uranium-238	AFP-SD-01	3.42	pci/g	-	3.42	53.84%
112258	Uranium-238	AFP-SS-05	3.37	pci/g	-	3.37	46.15%
112252	Uranium-238	AFP-SS-01	3.36	pci/g	-	3.36	38.46%
112248	Uranium-238	AFP-SD-03	3.11	pci/g	-	3.11	23.07%
112255	Uranium-238	AFP-SS-03	3.11	pci/g	-	3.11	23.07%
112249	Uranium-238	AFP-SD-04	3.05	pci/g	-	3.05	15.38%
112254	Uranium-238	AFP-SS-02	2.95	pci/g	-	2.95	7.69%
112091	Uranium-238	1979	2.88	pci/g	-	2.88	0.00%

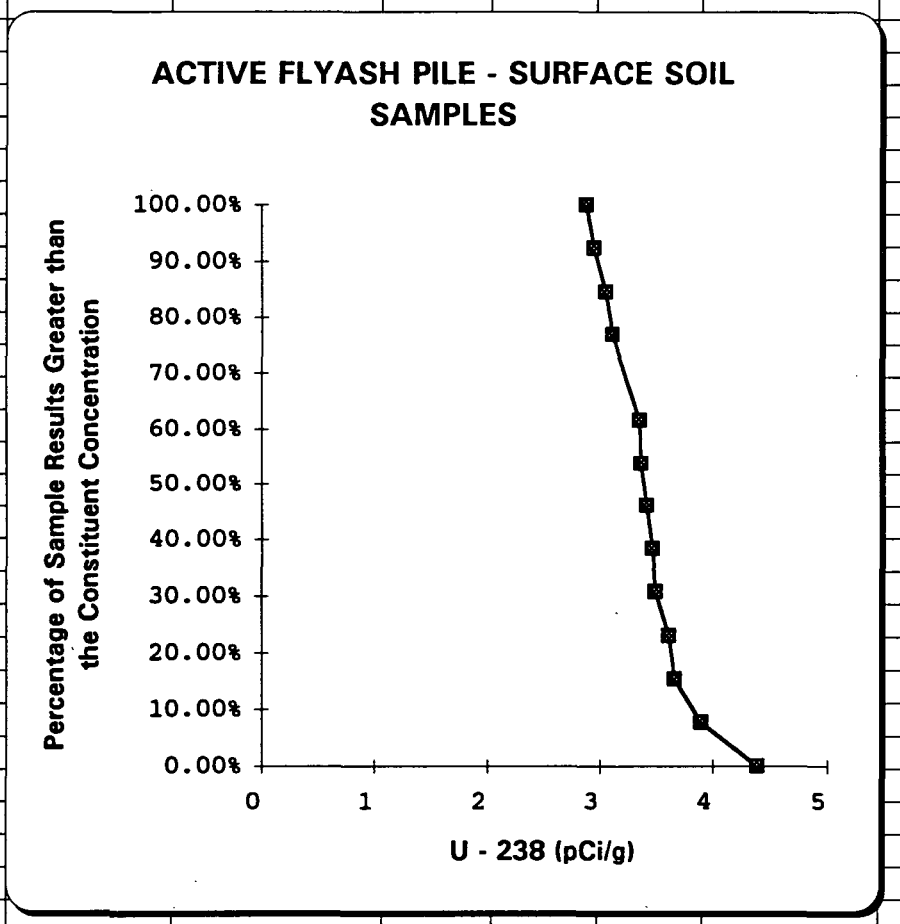


TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112091	Arsenic	1979	145	mg/kg	-	145	100.00%
112254	Arsenic	AFP-SS-02	129	mg/kg	-	129	97.05%
112160	Arsenic	1981	115	mg/kg	J	115	94.11%
112129	Arsenic	1980	94.8	mg/kg	-	94.8	91.17%
112255	Arsenic	AFP-SS-03	89.4	mg/kg	-	89.4	88.23%
112117	Arsenic	1979	87.8	mg/kg	-	87.8	85.29%
112258	Arsenic	AFP-SS-05	82.8	mg/kg	-	82.8	82.35%
112130	Arsenic	1980	79.3	mg/kg	-	79.3	79.41%
112145	Arsenic	1980	75.9	mg/kg	-	75.9	76.47%
112257	Arsenic	AFP-SS-04	69.1	mg/kg	-	69.1	73.52%
067149	Arsenic	1726	66.5	mg/kg	-	66.5	70.58%
067173	Arsenic	1723	66.1	mg/kg	-	66.1	67.64%
067201	Arsenic	1724	65.5	mg/kg	-	65.5	64.70%
067503	Arsenic	1820	64.7	mg/kg	-	64.7	61.76%
112252	Arsenic	AFP-SS-01	64.2	mg/kg	-	64.2	58.82%
112167	Arsenic	1981	55.6	mg/kg	J	55.6	55.88%
112259	Arsenic	AFP-SS-06	53.1	mg/kg	-	53.1	52.94%
067167	Arsenic	1723	51.1	mg/kg	-	51.1	50.00%
067505	Arsenic	1820	51	mg/kg	-	51	47.05%
112251	Arsenic	AFP-SD-05	50.4	mg/kg	-	50.4	44.11%
112264	Arsenic	AFP-SD-01	37	mg/kg	-	37	41.17%
112249	Arsenic	AFP-SD-04	27.2	mg/kg	-	27.2	38.23%
112092	Arsenic	1979	23.2	mg/kg	-	23.2	35.29%
067193	Arsenic	1724	19.4	mg/kg	-	19.4	32.35%
112180	Arsenic	1981	18.7	mg/kg	J	18.7	29.41%
112161	Arsenic	1981	16.9	mg/kg	J	16.9	26.47%
112248	Arsenic	AFP-SD-03	13.2	mg/kg	-	13.2	23.52%
112123	Arsenic	1979	11	mg/kg	-	11	20.58%
112246	Arsenic	AFP-SD-06	10.9	mg/kg	-	10.9	17.64%
112157	Arsenic	1980	10.6	mg/kg	-	10.6	14.70%
112241	Arsenic	AFP-SD-02	10.4	mg/kg	-	10.4	11.76%
067155	Arsenic	1726	9.1	mg/kg	-	9.1	5.88%
067218	Arsenic	1724	9.1	mg/kg	-	9.1	5.88%
112153	Arsenic	1980	7.9	mg/kg	-	7.9	2.94%
067506	Arsenic	1820	4.6	mg/kg	-	4.6	0.00%

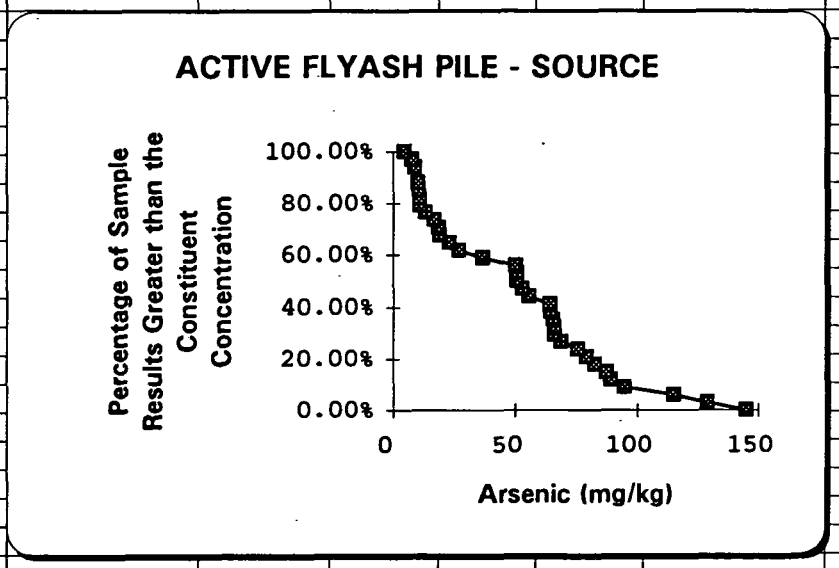


TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112129	Beryllium	1980	6.4	mg/kg	-	6.4	100.00%
112160	Beryllium	1981	5.8	mg/kg	-	5.8	97.05%
112259	Beryllium	AFP-SS-06	5.7	mg/kg	-	5.7	94.11%
112091	Beryllium	1979	5.4	mg/kg	-	5.4	91.17%
112258	Beryllium	AFP-SS-05	4.6	mg/kg	-	4.6	85.29%
067173	Beryllium	1723	4.6	mg/kg	-	4.6	85.29%
112255	Beryllium	AFP-SS-03	4.5	mg/kg	-	4.5	82.35%
112254	Beryllium	AFP-SS-02	4.3	mg/kg	-	4.3	76.47%
112257	Beryllium	AFP-SS-04	4.3	mg/kg	-	4.3	76.47%
112130	Beryllium	1980	3.9	mg/kg	-	3.9	67.64%
112145	Beryllium	1980	3.9	mg/kg	-	3.9	67.64%
067167	Beryllium	1723	3.9	mg/kg	-	3.9	67.64%
112167	Beryllium	1981	3.8	mg/kg	-	3.8	64.70%
112251	Beryllium	AFP-SD-05	3.1	mg/kg	-	3.1	61.76%
112252	Beryllium	AFP-SS-01	3	mg/kg	-	3	55.88%
067201	Beryllium	1724	3	mg/kg	-	3	55.88%
067149	Beryllium	1726	2.8	mg/kg	-	2.8	52.94%
067503	Beryllium	1820	2.6	mg/kg	-	2.6	50.00%
112117	Beryllium	1979	2.5	mg/kg	-	2.5	47.05%
112092	Beryllium	1979	2.4	mg/kg	-	2.4	41.17%
067193	Beryllium	1724	2.4	mg/kg	-	2.4	41.17%
112161	Beryllium	1981	2.3	mg/kg	-	2.3	38.23%
112249	Beryllium	AFP-SD-04	2.1	mg/kg	-	2.1	35.29%
112264	Beryllium	AFP-SD-01	2	mg/kg	-	2	32.35%
112241	Beryllium	AFP-SD-02	1.9	mg/kg	-	1.9	29.41%
112248	Beryllium	AFP-SD-03	1.5	mg/kg	-	1.5	26.47%
112153	Beryllium	1980	1.4	mg/kg	-	1.4	17.64%
112246	Beryllium	AFP-SD-06	1.4	mg/kg	-	1.4	17.64%
112157	Beryllium	1980	1.4	mg/kg	-	1.4	17.64%
067155	Beryllium	1726	1.2	mg/kg	-	1.2	14.70%
112180	Beryllium	1981	1.1	mg/kg	-	1.1	11.76%
067218	Beryllium	1724	0.74	mg/kg	-	0.74	8.82%
067505	Beryllium	1820	0.65	mg/kg	-	0.65	5.88%
112123	Beryllium	1979	0.55	mg/kg	-	0.55	2.94%
067506	Beryllium	1820	0.47	mg/kg	-	0.47	0.00%

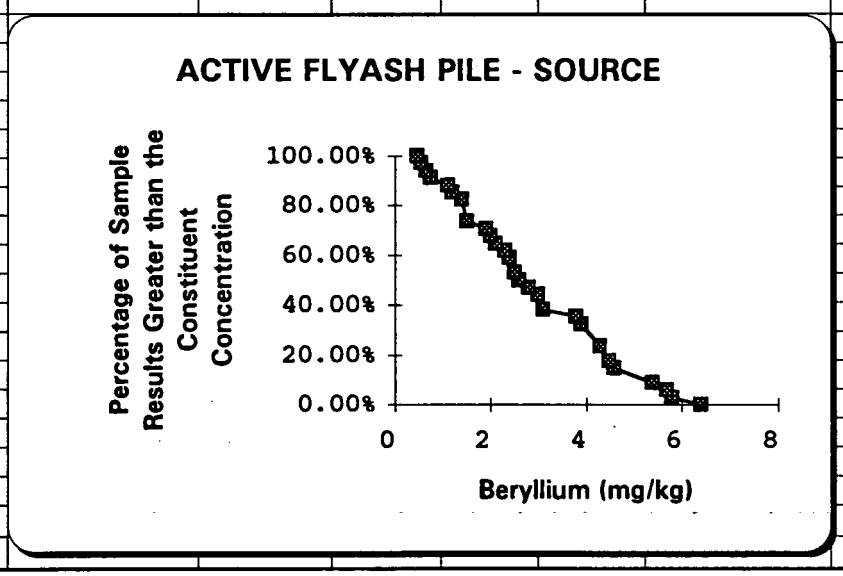


TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112241	Cesium-137	AFP-SD-02	0.919	pci/g	-	0.919	100.00%
112248	Cesium-137	AFP-SD-03	0.459	pci/g	-	0.459	97.40%
112251	Cesium-137	AFP-SD-05	0.171	pci/g	J	0.171	94.80%
67146	Cesium-137	1726	0.2	pci/g	U	0.1	58.90%
67148	Cesium-137	1726	0.2	pci/g	UJ	0.1	58.90%
67153	Cesium-137	1726	0.2	pci/g	U	0.1	58.90%
67154	Cesium-137	1726	0.2	pci/g	UJ	0.1	58.90%
67156	Cesium-137	1726	0.2	pci/g	UJ	0.1	58.90%
67166	Cesium-137	1723	0.2	pci/g	UJ	0.1	58.90%
67172	Cesium-137	1723	0.2	pci/g	UJ	0.1	58.90%
67192	Cesium-137	1724	0.2	pci/g	UJ	0.1	58.90%
67503	Cesium-137	1820	0.2	pci/g	UJ	0.1	58.90%
67505	Cesium-137	1820	0.2	pci/g	UJ	0.1	58.90%
67217	Cesium-137	1724	0.2	pci/g	UJ	0.1	58.90%
7220	Cesium-137	1048	0.2	pci/g	UJ	0.1	58.90%
7217	Cesium-137	1048	0.2	pci/g	UJ	0.1	58.90%
67506	Cesium-137	1820	0.2	pci/g	UJ	0.1	58.90%
112246	Cesium-137	AFP-SD-06	0.086	pci/g	J	0.086	56.40%
112249	Cesium-137	AFP-SD-04	0.0721	pci/g	J	0.0721	53.80%
112264	Cesium-137	AFP-SD-01	0.122	pci/g	UJ	0.061	51.20%
112161	Cesium-137	1981	0.12	pci/g	UJ	0.06	48.70%
112130	Cesium-137	1980	0.116	pci/g	UJ	0.058	46.10%
112091	Cesium-137	1979	0.115	pci/g	UJ	0.0575	43.50%
112252	Cesium-137	AFP-SS-01	0.11	pci/g	UJ	0.055	41.00%
112257	Cesium-137	AFP-SS-04	0.109	pci/g	UJ	0.0545	38.40%
112259	Cesium-137	AFP-SS-06	0.107	pci/g	UJ	0.0535	35.80%
112123	Cesium-137	1979	0.104	pci/g	UJ	0.052	33.30%
112167	Cesium-137	1981	0.1	pci/g	UJ	0.05	28.20%
67200	Cesium-137	1724	0.1	pci/g	UJ	0.05	28.20%
112153	Cesium-137	1980	0.0993	pci/g	UJ	0.04965	25.60%
112117	Cesium-137	1979	0.0982	pci/g	UJ	0.0491	23.00%

TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112254	Cesium-137	AFP-SS-02	0.09	pci/g	UJ	0.045	20.50%
112129	Cesium-137	1980	0.0899	pci/g	UJ	0.04495	17.90%
112258	Cesium-137	AFP-SS-05	0.088	pci/g	UJ	0.044	15.30%
112157	Cesium-137	1980	0.084	pci/g	UJ	0.042	12.80%
112255	Cesium-137	AFP-SS-03	0.0829	pci/g	UJ	0.04145	10.20%
112092	Cesium-137	1979	0.0821	pci/g	UJ	0.04105	7.60%
112145	Cesium-137	1980	0.0801	pci/g	UJ	0.04005	5.10%
112160	Cesium-137	1981	0.08	pci/g	UJ	0.04	.00%
112180	Cesium-137	1981	0.08	pci/g	UJ	0.04	.00%

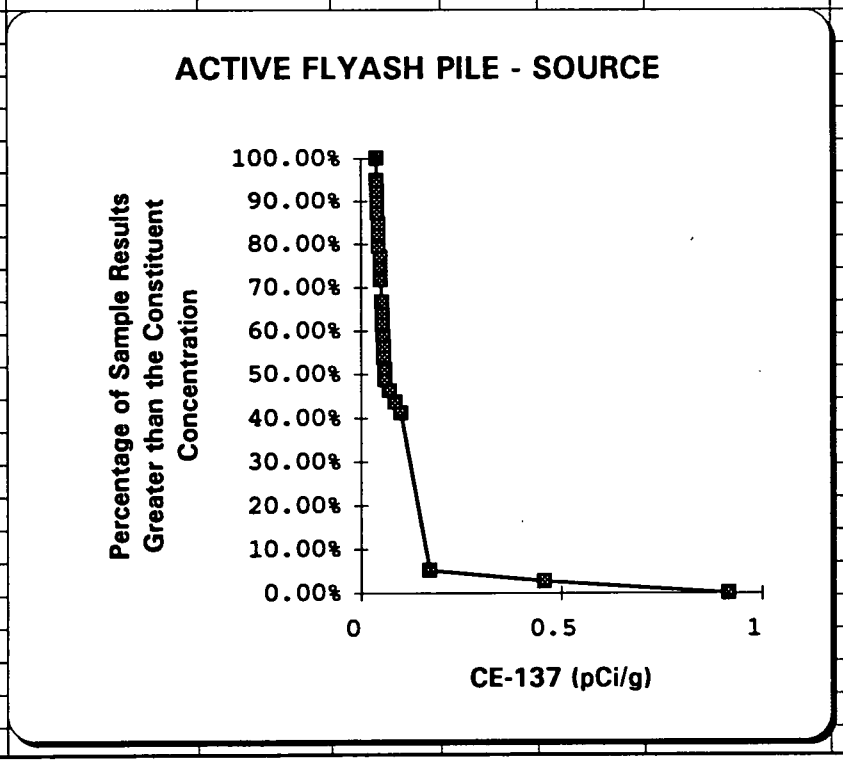


TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112167	Neptunium-237	1981	0.45	pci/g	N	0.45	100.00%
112180	Neptunium-237	1981	0.4	pci/g	N	0.4	95.65%
112160	Neptunium-237	1981	0.3	pci/g	N	0.3	52.17%
112161	Neptunium-237	1981	0.3	pci/g	N	0.3	52.17%
067146	Neptunium-237	1726	0.6	pci/g	UJ	0.3	52.17%
067153	Neptunium-237	1726	0.6	pci/g	UJ	0.3	52.17%
067166	Neptunium-237	1723	0.6	pci/g	U	0.3	52.17%
067172	Neptunium-237	1723	0.6	pci/g	U	0.3	52.17%
067192	Neptunium-237	1724	0.6	pci/g	U	0.3	52.17%
067200	Neptunium-237	1724	0.6	pci/g	U	0.3	52.17%
007220	Neptunium-237	1048	0.6	pci/g	UJ	0.3	52.17%
007217	Neptunium-237	1048	0.6	pci/g	UJ	0.3	52.17%
112153	Neptunium-237	1980	0.152	pci/g	N	0.152	47.82%
112123	Neptunium-237	1979	0.146	pci/g	N	0.146	43.47%
112249	Neptunium-237	AFP-SD-04	0.124	pci/g	N	0.124	39.13%
112092	Neptunium-237	1979	0.122	pci/g	N	0.122	34.78%
112241	Neptunium-237	AFP-SD-02	0.12	pci/g	N	0.12	30.43%
112130	Neptunium-237	1980	0.11	pci/g	N	0.11	26.08%
112129	Neptunium-237	1980	0.0825	pci/g	N	0.0825	21.73%
112117	Neptunium-237	1979	0.059	pci/g	N	0.059	17.39%
112251	Neptunium-237	AFP-SD-05	0.058	pci/g	N	0.058	13.04%
112248	Neptunium-237	AFP-SD-03	0.057	pci/g	N	0.057	8.69%
112157	Neptunium-237	1980	0.052	pci/g	N	0.052	4.34%
112246	Neptunium-237	AFP-SD-06	0.038	pci/g	N	0.038	0.00%

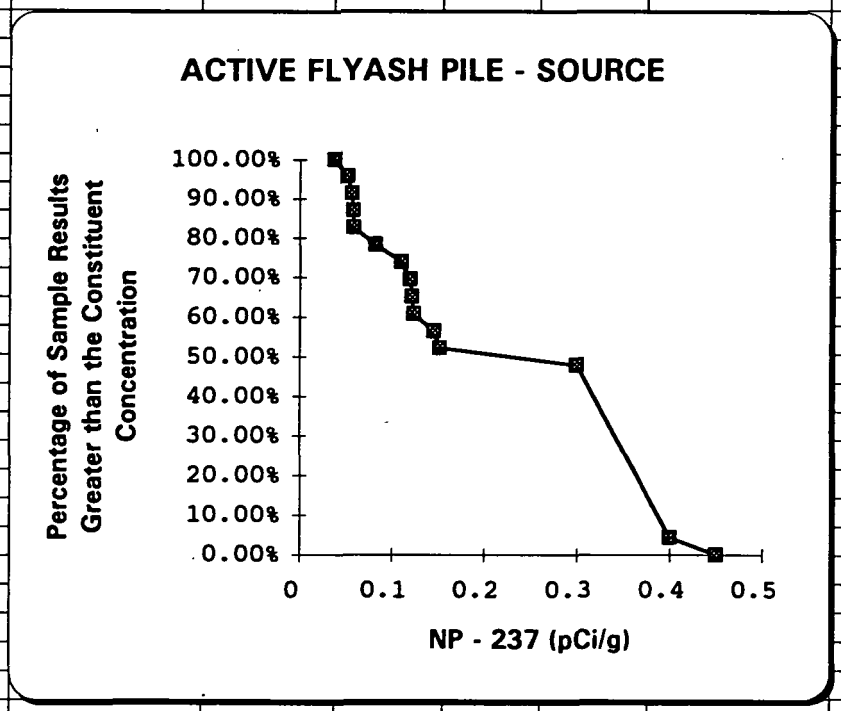


TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067192	Radium-226	1724	6.22	pci/g	J	6.22	100.00%
112160	Radium-226	1981	4.61	pci/g	-	4.61	97.43%
067154	Radium-226	1726	4.52	pci/g	J	4.52	94.87%
067148	Radium-226	1726	4.51	pci/g	J	4.51	92.30%
067166	Radium-226	1723	4.12	pci/g	J	4.12	89.74%
067172	Radium-226	1723	4.05	pci/g	J	4.05	87.17%
112117	Radium-226	1979	4.02	pci/g	-	4.02	84.61%
112130	Radium-226	1980	3.97	pci/g	-	3.97	82.05%
112259	Radium-226	AFP-SS-06	3.8	pci/g	-	3.8	79.48%
067153	Radium-226	1726	3.76	pci/g	-	3.76	76.92%
112257	Radium-226	AFP-SS-04	3.73	pci/g	-	3.73	74.35%
112255	Radium-226	AFP-SS-03	3.6	pci/g	-	3.6	69.23%
067200	Radium-226	1724	3.6	pci/g	J	3.6	69.23%
112161	Radium-226	1981	3.55	pci/g	-	3.55	66.66%
112258	Radium-226	AFP-SS-05	3.53	pci/g	-	3.53	61.53%
112264	Radium-226	AFP-SD-01	3.53	pci/g	-	3.53	61.53%
112092	Radium-226	1979	3.51	pci/g	-	3.51	58.97%
112129	Radium-226	1980	3.45	pci/g	-	3.45	56.41%
112091	Radium-226	1979	3.32	pci/g	-	3.32	53.84%
112252	Radium-226	AFP-SS-01	3.29	pci/g	-	3.29	51.28%
112254	Radium-226	AFP-SS-02	3.28	pci/g	-	3.28	48.71%
112167	Radium-226	1981	3.27	pci/g	-	3.27	46.15%
067503	Radium-226	1820	3.16	pci/g	J	3.16	43.58%
067146	Radium-226	1726	3.04	pci/g	-	3.04	41.02%
112145	Radium-226	1980	2.96	pci/g	-	2.96	38.46%
112251	Radium-226	AFP-SD-05	2.75	pci/g	-	2.75	35.89%
067505	Radium-226	1820	2.53	pci/g	J	2.53	33.33%
112249	Radium-226	AFP-SD-04	1.96	pci/g	-	1.96	30.76%
112180	Radium-226	1981	1.73	pci/g	-	1.73	28.20%
067156	Radium-226	1726	1.45	pci/g	J	1.45	25.64%
112248	Radium-226	AFP-SD-03	1.38	pci/g	-	1.38	23.07%
112246	Radium-226	AFP-SD-06	1.32	pci/g	-	1.32	20.51%
112241	Radium-226	AFP-SD-02	1.3	pci/g	-	1.3	17.94%
112153	Radium-226	1980	1.15	pci/g	-	1.15	15.38%

TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067217	Radium-226	1724	1.13	pci/g	J	1.13	12.82%
112157	Radium-226	1980	1.07	pci/g	-	1.07	10.25%
112123	Radium-226	1979	0.959	pci/g	-	0.959	7.69%
007217	Radium-226	1048	0.9	pci/g	J	0.9	5.12%
007220	Radium-226	1048	0.5	pci/g	J	0.5	2.56%
067506	Radium-226	1820	0.47	pci/g	J	0.47	0.00%

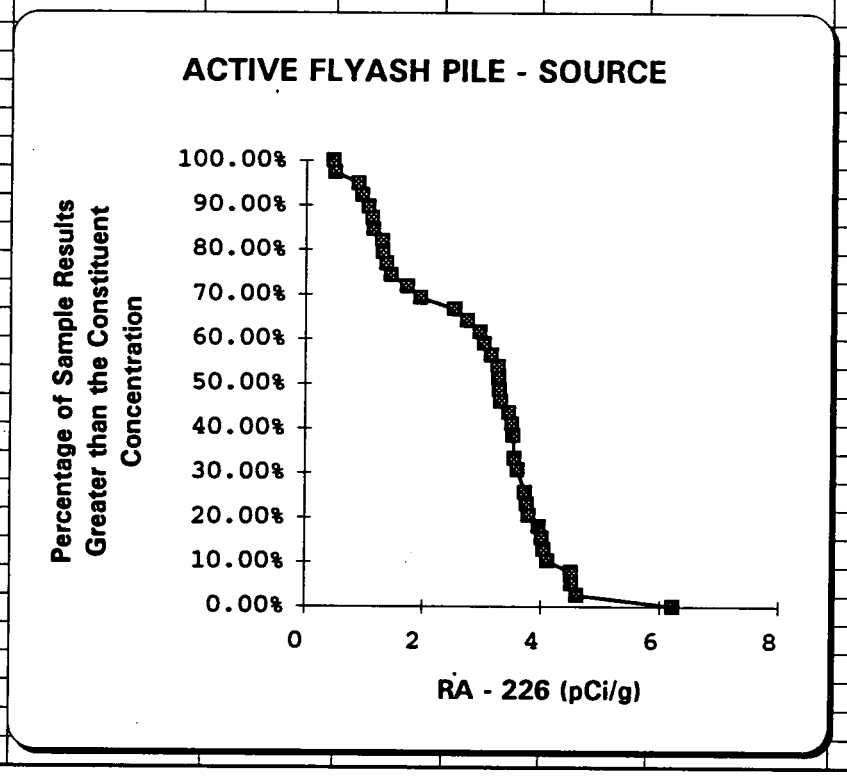


TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067192	Radium-228	1724	5.32	pci/g	J	5.32	100.00%
067166	Radium-228	1723	3.89	pci/g	J	3.89	97.43%
112117	Radium-228	1979	3.69	pci/g	-	3.69	94.87%
067148	Radium-228	1726	3.61	pci/g	J	3.61	92.30%
067154	Radium-228	1726	3.45	pci/g	J	3.45	89.74%
112160	Radium-228	1981	3.17	pci/g	-	3.17	87.17%
112161	Radium-228	1981	3.07	pci/g	-	3.07	84.61%
112257	Radium-228	AFP-SS-04	2.98	pci/g	-	2.98	82.05%
112255	Radium-228	AFP-SS-03	2.92	pci/g	-	2.92	76.92%
112264	Radium-228	AFP-SD-01	2.92	pci/g	-	2.92	76.92%
112092	Radium-228	1979	2.91	pci/g	-	2.91	71.79%
067146	Radium-228	1726	2.91	pci/g	-	2.91	71.79%
112252	Radium-228	AFP-SS-01	2.9	pci/g	-	2.9	69.23%
112091	Radium-228	1979	2.86	pci/g	-	2.86	66.66%
067153	Radium-228	1726	2.85	pci/g	-	2.85	64.10%
112130	Radium-228	1980	2.84	pci/g	-	2.84	61.53%
067172	Radium-228	1723	2.83	pci/g	J	2.83	58.97%
112259	Radium-228	AFP-SS-06	2.8	pci/g	-	2.8	56.41%
067200	Radium-228	1724	2.76	pci/g	J	2.76	53.84%
112258	Radium-228	AFP-SS-05	2.75	pci/g	-	2.75	51.28%
067503	Radium-228	1820	2.7	pci/g	J	2.7	48.71%
112129	Radium-228	1980	2.69	pci/g	-	2.69	46.15%
112254	Radium-228	AFP-SS-02	2.58	pci/g	-	2.58	43.58%
112251	Radium-228	AFP-SD-05	2.48	pci/g	-	2.48	41.02%
112167	Radium-228	1981	2.42	pci/g	-	2.42	38.46%
112145	Radium-228	1980	2.23	pci/g	-	2.23	33.33%
067505	Radium-228	1820	2.23	pci/g	J	2.23	33.33%
112249	Radium-228	AFP-SD-04	1.67	pci/g	-	1.67	30.76%
112180	Radium-228	1981	1.33	pci/g	-	1.33	28.20%
112248	Radium-228	AFP-SD-03	1.29	pci/g	-	1.29	25.64%
007217	Radium-228	1048	1.2	pci/g	J	1.2	23.07%
112153	Radium-228	1980	1.07	pci/g	-	1.07	20.51%
112157	Radium-228	1980	1.06	pci/g	-	1.06	17.94%
067156	Radium-228	1726	1.04	pci/g	J	1.04	15.38%
112241	Radium-228	AFP-SD-02	1.01	pci/g	-	1.01	12.82%

TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112246	Radium-228	AFP-SD-06	0.908	pci/g	-	0.908	10.25%
067217	Radium-228	1724	0.82	pci/g	J	0.82	7.69%
112123	Radium-228	1979	0.8	pci/g	-	0.8	5.12%
067506	Radium-228	1820	0.74	pci/g	J	0.74	2.56%
007220	Radium-228	1048	0.6	pci/g	J	0.6	0.00%

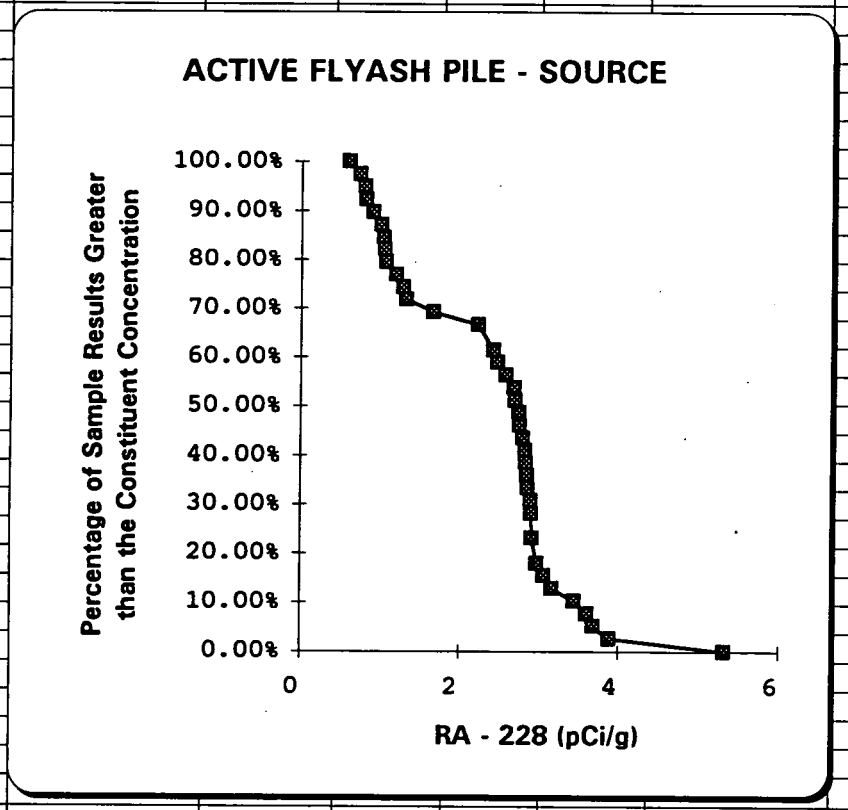


TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112254	Strontium-90	AFP-SS-02	4.47	pci/g	J	4.47	100.00%
112252	Strontium-90	AFP-SS-01	4.24	pci/g	J	4.24	97.20%
67217	Strontium-90	1724	3.61	pci/g	-	3.61	94.50%
112257	Strontium-90	AFP-SS-04	1.73	pci/g	J	1.73	91.80%
67192	Strontium-90	1724	1.53	pci/g	J	1.53	89.10%
67503	Strontium-90	1820	1.4	pci/g	-	1.4	86.40%
67148	Strontium-90	1726	1.37	pci/g	-	1.37	83.70%
67200	Strontium-90	1724	1.27	pci/g	J	1.27	81.00%
67156	Strontium-90	1726	1.21	pci/g	J	1.21	78.30%
67154	Strontium-90	1726	1.16	pci/g	J	1.16	75.60%
67172	Strontium-90	1723	1.09	pci/g	J	1.09	72.90%
67166	Strontium-90	1723	1.01	pci/g	J	1.01	70.20%
112160	Strontium-90	1981	0.76	pci/g	J	0.76	67.50%
112092	Strontium-90	1979	0.705	pci/g	-	0.705	64.80%
112161	Strontium-90	1981	0.65	pci/g	J	0.65	62.10%
67146	Strontium-90	1726	0.9	pci/g	U	0.45	56.70%
67153	Strontium-90	1726	0.9	pci/g	U	0.45	56.70%
112255	Strontium-90	AFP-SS-03	0.386	pci/g	J	0.386	54.00%
67506	Strontium-90	1820	0.6	pci/g	U	0.3	51.30%
67505	Strontium-90	1820	0.5	pci/g	U	0.25	48.60%
112241	Strontium-90	AFP-SD-02	0.227	pci/g	J	0.227	45.90%
112251	Strontium-90	AFP-SD-05	0.214	pci/g	J	0.214	43.20%
112180	Strontium-90	1981	0.4	pci/g	UJ	0.2	40.50%
112129	Strontium-90	1980	0.324	pci/g	UJ	0.162	37.80%
112259	Strontium-90	AFP-SS-06	0.293	pci/g	UJ	0.1465	35.10%
112258	Strontium-90	AFP-SS-05	0.281	pci/g	UJ	0.1405	32.40%
112091	Strontium-90	1979	0.255	pci/g	UJ	0.1275	29.70%
112117	Strontium-90	1979	0.248	pci/g	UJ	0.124	27.00%
112264	Strontium-90	AFP-SD-01	0.245	pci/g	UJ	0.1225	24.30%
112130	Strontium-90	1980	0.198	pci/g	UJ	0.099	21.60%
112167	Strontium-90	1981	0.18	pci/g	UJ	0.09	18.90%

TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112123	Strontium-90	1979	0.178	pci/g	UJ	0.089	16.20%
112145	Strontium-90	1980	0.171	pci/g	UJ	0.0855	10.80%
112157	Strontium-90	1980	0.171	pci/g	UJ	0.0855	10.80%
112153	Strontium-90	1980	0.157	pci/g	UJ	0.0785	8.10%
112248	Strontium-90	AFP-SD-03	0.156	pci/g	UJ	0.078	5.40%
112249	Strontium-90	AFP-SD-04	0.153	pci/g	UJ	0.0765	2.70%
112246	Strontium-90	AFP-SD-06	0.141	pci/g	UJ	0.0705	.00%

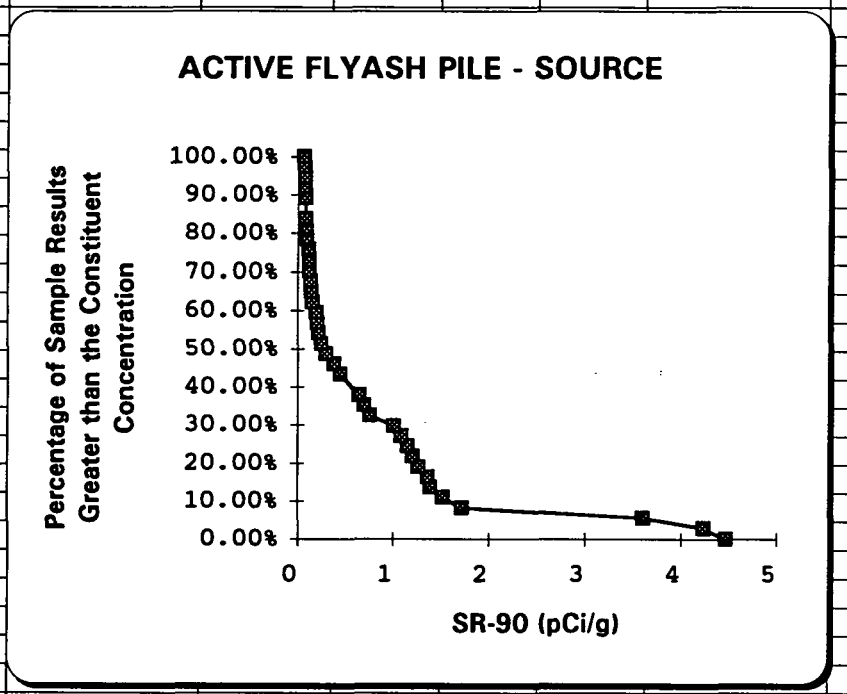


TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067146	Technetium-99	1726	0.9	pci/g	U	0.45	73.52%
067148	Technetium-99	1726	0.9	pci/g	U	0.45	73.52%
067153	Technetium-99	1726	0.9	pci/g	U	0.45	73.52%
067154	Technetium-99	1726	0.9	pci/g	U	0.45	73.52%
067156	Technetium-99	1726	0.9	pci/g	U	0.45	73.52%
067166	Technetium-99	1723	0.9	pci/g	U	0.45	73.52%
067172	Technetium-99	1723	0.9	pci/g	U	0.45	73.52%
067192	Technetium-99	1724	0.9	pci/g	U	0.45	73.52%
067200	Technetium-99	1724	0.9	pci/g	U	0.45	73.52%
067217	Technetium-99	1724	0.9	pci/g	U	0.45	73.52%
112241	Technetium-99	AFP-SD-02	0.533	pci/g	UJ	0.2665	70.58%
112091	Technetium-99	1979	0.525	pci/g	UJ	0.2625	67.64%
112123	Technetium-99	1979	0.523	pci/g	UJ	0.2615	64.70%
112117	Technetium-99	1979	0.522	pci/g	UJ	0.261	61.76%
112092	Technetium-99	1979	0.514	pci/g	UJ	0.257	58.82%
112160	Technetium-99	1981	0.46	pci/g	UJ	0.23	55.88%
112145	Technetium-99	1980	0.451	pci/g	UJ	0.2255	52.94%
112255	Technetium-99	AFP-SS-03	0.429	pci/g	UJ	0.2145	50.00%
112130	Technetium-99	1980	0.426	pci/g	UJ	0.213	47.05%
112129	Technetium-99	1980	0.414	pci/g	UJ	0.207	44.11%
112161	Technetium-99	1981	0.41	pci/g	UJ	0.205	41.17%
112180	Technetium-99	1981	0.4	pci/g	UJ	0.2	38.23%
112257	Technetium-99	AFP-SS-04	0.396	pci/g	UJ	0.198	35.29%
112153	Technetium-99	1980	0.388	pci/g	UJ	0.194	32.35%
112167	Technetium-99	1981	0.38	pci/g	UJ	0.19	26.47%
112254	Technetium-99	AFP-SS-02	0.38	pci/g	UJ	0.19	26.47%
112258	Technetium-99	AFP-SS-05	0.376	pci/g	UJ	0.188	23.52%
112252	Technetium-99	AFP-SS-01	0.36	pci/g	UJ	0.18	20.58%
112264	Technetium-99	AFP-SD-01	0.353	pci/g	UJ	0.1765	17.64%
112259	Technetium-99	AFP-SS-06	0.35	pci/g	UJ	0.175	14.70%

TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112157	Technetium-99	1980	0.338	pci/g	UJ	0.169	11.76%
112249	Technetium-99	AFP-SD-04	0.31	pci/g	UJ	0.155	8.82%
112246	Technetium-99	AFP-SD-06	0.299	pci/g	UJ	0.1495	5.88%
112248	Technetium-99	AFP-SD-03	0.298	pci/g	UJ	0.149	2.94%
112251	Technetium-99	AFP-SD-05	0.296	pci/g	UJ	0.148	0.00%

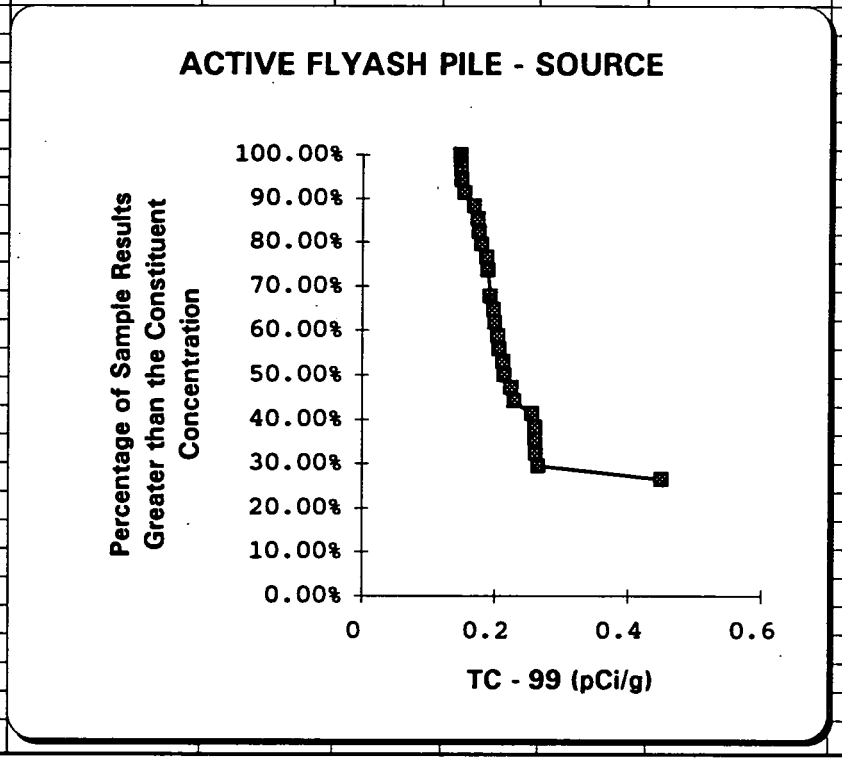


TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067192	Thorium-228	1724	5.79	pci/g	J	5.79	100.00%
067154	Thorium-228	1726	4.47	pci/g	J	4.47	97.43%
112160	Thorium-228	1981	3.81	pci/g	-	3.81	94.87%
067148	Thorium-228	1726	3.46	pci/g	J	3.46	89.74%
067166	Thorium-228	1723	3.46	pci/g	J	3.46	89.74%
067505	Thorium-228	1820	3.44	pci/g	J	3.44	87.17%
112161	Thorium-228	1981	3.27	pci/g	-	3.27	84.61%
067200	Thorium-228	1724	3.21	pci/g	J	3.21	82.05%
112092	Thorium-228	1979	3.2	pci/g	-	3.2	79.48%
067503	Thorium-228	1820	3.18	pci/g	J	3.18	76.92%
112167	Thorium-228	1981	3.12	pci/g	-	3.12	74.35%
067172	Thorium-228	1723	2.99	pci/g	J	2.99	71.79%
067153	Thorium-228	1726	2.93	pci/g	J	2.93	69.23%
067146	Thorium-228	1726	2.91	pci/g	J	2.91	66.66%
112117	Thorium-228	1979	2.88	pci/g	-	2.88	64.10%
112252	Thorium-228	AFP-SS-01	2.56	pci/g	J	2.56	61.53%
112257	Thorium-228	AFP-SS-04	2.51	pci/g	J	2.51	58.97%
112130	Thorium-228	1980	2.44	pci/g	J	2.44	56.41%
112259	Thorium-228	AFP-SS-06	2.41	pci/g	J	2.41	53.84%
112129	Thorium-228	1980	2.39	pci/g	J	2.39	51.28%
112255	Thorium-228	AFP-SS-03	2.38	pci/g	J	2.38	46.15%
112264	Thorium-228	AFP-SD-01	2.38	pci/g	J	2.38	46.15%
112091	Thorium-228	1979	2.35	pci/g	-	2.35	43.58%
112254	Thorium-228	AFP-SS-02	2.34	pci/g	J	2.34	41.02%
112258	Thorium-228	AFP-SS-05	2.23	pci/g	J	2.23	38.46%
067156	Thorium-228	1726	2.09	pci/g	J	2.09	35.89%
112145	Thorium-228	1980	1.8	pci/g	J	1.8	33.33%
112251	Thorium-228	AFP-SD-05	1.78	pci/g	-	1.78	30.76%
007217	Thorium-228	1048	1.6	pci/g	-	1.6	28.20%
112249	Thorium-228	AFP-SD-04	1.4	pci/g	-	1.4	25.64%
112180	Thorium-228	1981	1.37	pci/g	-	1.37	23.07%
007220	Thorium-228	1048	1.2	pci/g	-	1.2	20.51%
067217	Thorium-228	1724	1.16	pci/g	J	1.16	17.94%
112248	Thorium-228	AFP-SD-03	1.09	pci/g	-	1.09	15.38%
112153	Thorium-228	1980	0.961	pci/g	J	0.961	12.82%
112123	Thorium-228	1979	0.869	pci/g	-	0.869	10.25%

TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112157	Thorium-228	1980	0.853	pci/g	-	0.853	7.69%
112246	Thorium-228	AFP-SD-06	0.824	pci/g	-	0.824	5.12%
067506	Thorium-228	1820	0.813	pci/g	J	0.813	2.56%
112241	Thorium-228	AFP-SD-02	0.805	pci/g	J	0.805	0.00%

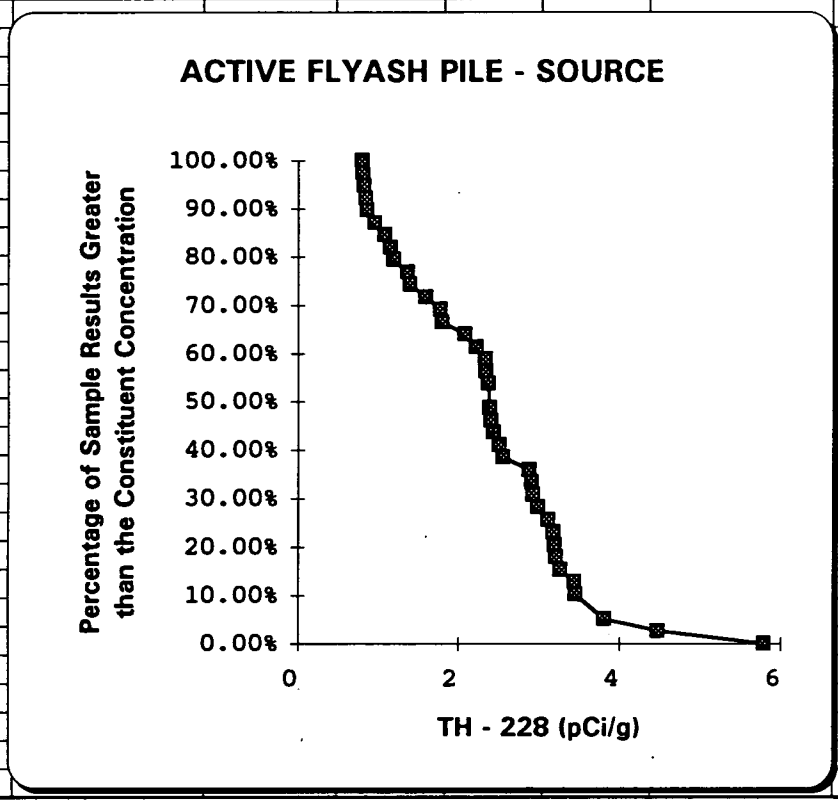


TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112160	Thorium-230	1981	6.74	pci/g	-	6.74	100.00%
067192	Thorium-230	1724	6.08	pci/g	J	6.08	97.50%
067146	Thorium-230	1726	5.92	pci/g	J	5.92	95.00%
112161	Thorium-230	1981	5.52	pci/g	-	5.52	92.50%
112167	Thorium-230	1981	5.01	pci/g	-	5.01	90.00%
067505	Thorium-230	1820	4.01	pci/g	J	4.01	85.00%
067153	Thorium-230	1726	3.8	pci/g	J	3.8	82.50%
067148	Thorium-230	1726	3.7	pci/g	J	3.7	80.00%
067154	Thorium-230	1726	3.62	pci/g	J	3.62	77.50%
112180	Thorium-230	1981	3.6	pci/g	-	3.6	75.00%
067166	Thorium-230	1723	3.55	pci/g	J	3.55	72.50%
112117	Thorium-230	1979	3.52	pci/g	-	3.52	70.00%
067200	Thorium-230	1724	3.45	pci/g	J	3.45	67.50%
112130	Thorium-230	1980	3.32	pci/g	J	3.32	65.00%
112259	Thorium-230	AFP-SS-06	3.31	pci/g	J	3.31	62.50%
112092	Thorium-230	1979	3.3	pci/g	-	3.3	60.00%
112264	Thorium-230	AFP-SD-01	3.09	pci/g	J	3.09	57.50%
112257	Thorium-230	AFP-SS-04	3.03	pci/g	J	3.03	55.00%
067172	Thorium-230	1723	3.02	pci/g	J	3.02	52.50%
112252	Thorium-230	AFP-SS-01	3.01	pci/g	J	3.01	50.00%
067503	Thorium-230	1820	3	pci/g	J	3	47.50%
112255	Thorium-230	AFP-SS-03	2.93	pci/g	J	2.93	45.00%
112129	Thorium-230	1980	2.89	pci/g	J	2.89	42.50%
112258	Thorium-230	AFP-SS-05	2.87	pci/g	J	2.87	40.00%
112254	Thorium-230	AFP-SS-02	2.83	pci/g	J	2.83	37.50%
112251	Thorium-230	AFP-SD-05	2.66	pci/g	-	2.66	35.00%
112091	Thorium-230	1979	2.43	pci/g	-	2.43	32.50%
112145	Thorium-230	1980	2.4	pci/g	J	2.4	30.00%
007220	Thorium-230	1048	2.2	pci/g	-	2.2	27.50%
067156	Thorium-230	1726	1.97	pci/g	J	1.97	25.00%
007217	Thorium-230	1048	1.9	pci/g	-	1.9	22.50%
112249	Thorium-230	AFP-SD-04	1.73	pci/g	-	1.73	20.00%
112248	Thorium-230	AFP-SD-03	1.55	pci/g	-	1.55	17.50%
112241	Thorium-230	AFP-SD-02	1.5	pci/g	J	1.5	15.00%

TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112246	Thorium-230	AFP-SD-06	1.47	pci/g	-	1.47	12.50%
067217	Thorium-230	1724	1.33	pci/g	J	1.33	10.00%
112153	Thorium-230	1980	1.25	pci/g	J	1.25	7.50%
067506	Thorium-230	1820	1.12	pci/g	J	1.12	5.00%
112157	Thorium-230	1980	1.11	pci/g	-	1.11	2.50%
112123	Thorium-230	1979	1.01	pci/g	-	1.01	0.00%

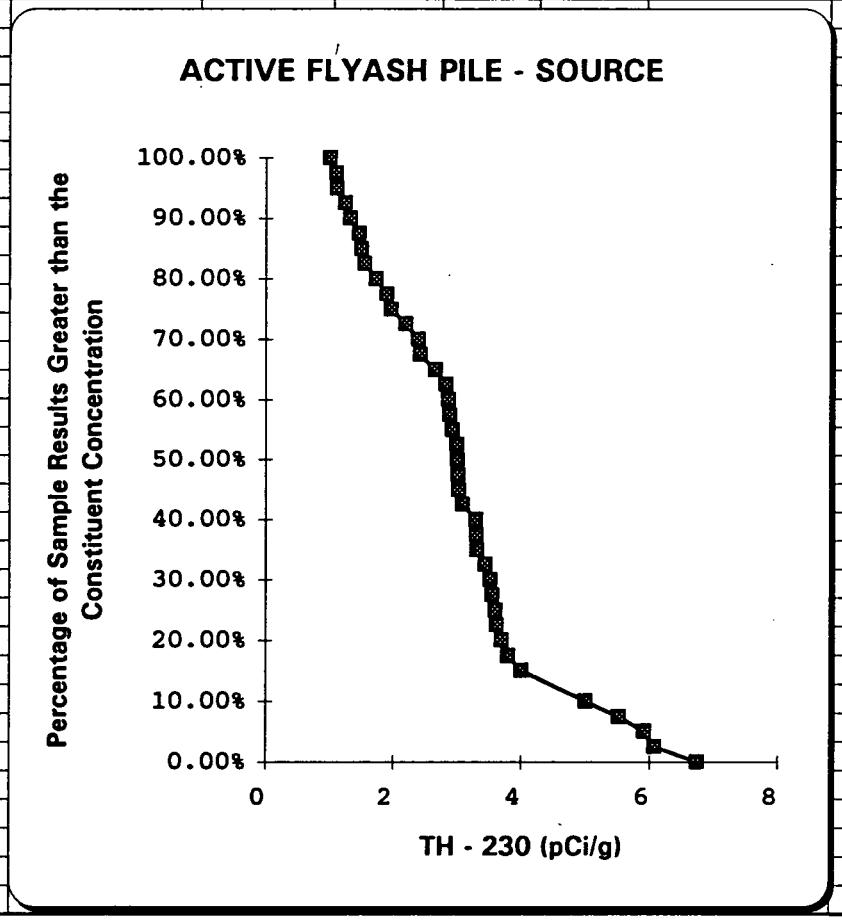


TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067192	Thorium-232	1724	5.08	pci/g	J	5.08	100.00%
112160	Thorium-232	1981	3.74	pci/g	-	3.74	97.50%
112117	Thorium-232	1979	3.14	pci/g	-	3.14	95.00%
112161	Thorium-232	1981	3.12	pci/g	-	3.12	92.50%
067146	Thorium-232	1726	2.91	pci/g	J	2.91	90.00%
112092	Thorium-232	1979	2.9	pci/g	-	2.9	85.00%
067166	Thorium-232	1723	2.84	pci/g	J	2.84	82.50%
067505	Thorium-232	1820	2.82	pci/g	-	2.82	80.00%
067148	Thorium-232	1726	2.8	pci/g	-	2.8	75.00%
067154	Thorium-232	1726	2.8	pci/g	-	2.8	75.00%
112257	Thorium-232	AFP-SS-04	2.55	pci/g	J	2.55	72.50%
112259	Thorium-232	AFP-SS-06	2.53	pci/g	J	2.53	70.00%
112252	Thorium-232	AFP-SS-01	2.45	pci/g	J	2.45	67.50%
112129	Thorium-232	1980	2.44	pci/g	J	2.44	65.00%
067200	Thorium-232	1724	2.42	pci/g	J	2.42	62.50%
112264	Thorium-232	AFP-SD-01	2.41	pci/g	J	2.41	60.00%
067153	Thorium-232	1726	2.37	pci/g	J	2.37	57.50%
112130	Thorium-232	1980	2.36	pci/g	J	2.36	55.00%
112254	Thorium-232	AFP-SS-02	2.34	pci/g	J	2.34	52.50%
112167	Thorium-232	1981	2.17	pci/g	-	2.17	50.00%
112255	Thorium-232	AFP-SS-03	2.13	pci/g	J	2.13	47.50%
112258	Thorium-232	AFP-SS-05	2.1	pci/g	J	2.1	45.00%
112145	Thorium-232	1980	2.05	pci/g	J	2.05	42.50%
112091	Thorium-232	1979	2	pci/g	-	2	40.00%
067172	Thorium-232	1723	1.93	pci/g	J	1.93	37.50%
067503	Thorium-232	1820	1.89	pci/g	-	1.89	35.00%
112251	Thorium-232	AFP-SD-05	1.81	pci/g	-	1.81	32.50%
112249	Thorium-232	AFP-SD-04	1.61	pci/g	-	1.61	30.00%
112180	Thorium-232	1981	1.35	pci/g	-	1.35	27.50%
112248	Thorium-232	AFP-SD-03	1.23	pci/g	-	1.23	25.00%
112153	Thorium-232	1980	1.01	pci/g	J	1.01	22.50%
007220	Thorium-232	1048	1	pci/g	-	1	20.00%
112241	Thorium-232	AFP-SD-02	0.931	pci/g	J	0.931	17.50%
067156	Thorium-232	1726	0.903	pci/g	-	0.903	15.00%

TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
007217	Thorium-232	1048	0.9	pci/g	-	0.9	12.50%
112157	Thorium-232	1980	0.892	pci/g	-	0.892	10.00%
112246	Thorium-232	AFP-SD-06	0.883	pci/g	-	0.883	7.50%
112123	Thorium-232	1979	0.685	pci/g	-	0.685	5.00%
067217	Thorium-232	1724	0.52	pci/g	-	0.52	2.50%
067506	Thorium-232	1820	0.6	pci/g	U	0.3	0.00%

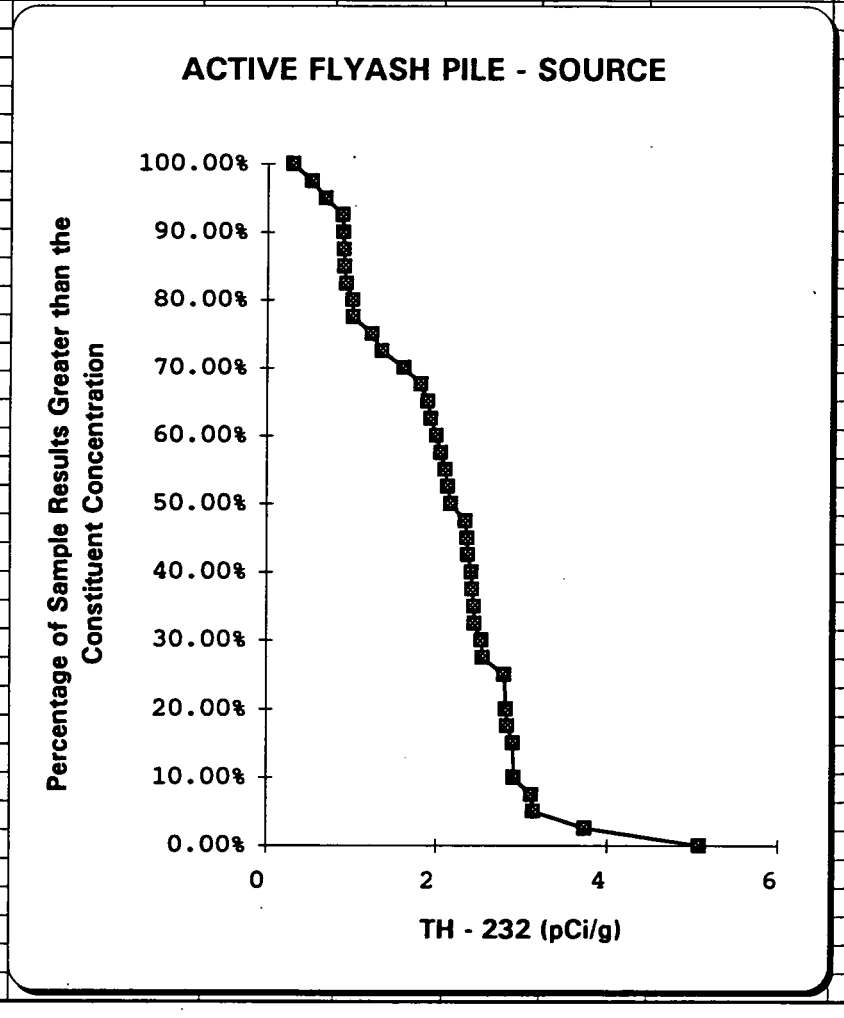


TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067172	Uranium, Total	1723	31.3	mg/kg	J	31.3	100.00%
067146	Uranium, Total	1726	28.1	mg/kg	J	28.1	94.59%
067154	Uranium, Total	1726	28.1	mg/kg	J	28.1	94.59%
067153	Uranium, Total	1726	27.7	mg/kg	J	27.7	91.89%
112117	Uranium, Total	1979	22.1	mg/kg	-	22.1	89.18%
067505	Uranium, Total	1820	20.7	mg/kg	J	20.7	86.48%
067148	Uranium, Total	1726	18.5	mg/kg	J	18.5	83.78%
067192	Uranium, Total	1724	18.4	mg/kg	J	18.4	81.08%
067200	Uranium, Total	1724	16.4	mg/kg	J	16.4	78.37%
112167	Uranium, Total	1981	15.7	mg/kg	-	15.7	75.67%
112264	Uranium, Total	AFP-SD-01	14.8	mg/kg	-	14.8	72.97%
112259	Uranium, Total	AFP-SS-06	14.2	mg/kg	-	14.2	70.27%
112161	Uranium, Total	1981	14.1	mg/kg	-	14.1	67.56%
112241	Uranium, Total	AFP-SD-02	13.6	mg/kg	-	13.6	64.86%
112160	Uranium, Total	1981	13.3	mg/kg	J	13.3	62.16%
112252	Uranium, Total	AFP-SS-01	13.1	mg/kg	J	13.1	59.45%
112145	Uranium, Total	1980	13	mg/kg	-	13	56.75%
112130	Uranium, Total	1980	12.9	mg/kg	-	12.9	54.05%
112258	Uranium, Total	AFP-SS-05	12.7	mg/kg	-	12.7	51.35%
112251	Uranium, Total	AFP-SD-05	12.5	mg/kg	-	12.5	48.64%
067166	Uranium, Total	1723	11.7	mg/kg	J	11.7	45.94%
112246	Uranium, Total	AFP-SD-06	11.3	mg/kg	-	11.3	43.24%
112091	Uranium, Total	1979	10.78	mg/kg	-	10.78	40.54%
112248	Uranium, Total	AFP-SD-03	10.7	mg/kg	-	10.7	37.83%
112257	Uranium, Total	AFP-SS-04	10.4	mg/kg	-	10.4	35.13%
112249	Uranium, Total	AFP-SD-04	10.2	mg/kg	-	10.2	32.43%
112255	Uranium, Total	AFP-SS-03	10	mg/kg	-	10	29.72%
112092	Uranium, Total	1979	9.34	mg/kg	-	9.34	27.02%
067503	Uranium, Total	1820	9.08	mg/kg	J	9.08	24.32%
112254	Uranium, Total	AFP-SS-02	8.44	mg/kg	J	8.44	21.62%
112129	Uranium, Total	1980	7.86	mg/kg	-	7.86	18.91%
067217	Uranium, Total	1724	7.17	mg/kg	J	7.17	16.21%
112157	Uranium, Total	1980	4.534	mg/kg	-	4.534	13.51%

TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112123	Uranium, Total	1979	4.49	mg/kg	-	4.49	10.81%
112180	Uranium, Total	1981	4.15	mg/kg	-	4.15	8.10%
112153	Uranium, Total	1980	3.34	mg/kg	J	3.34	5.40%
067156	Uranium, Total	1726	3.08	mg/kg	J	3.08	2.70%
067506	Uranium, Total	1820	3.9	mg/kg	UJ	1.95	0.00%

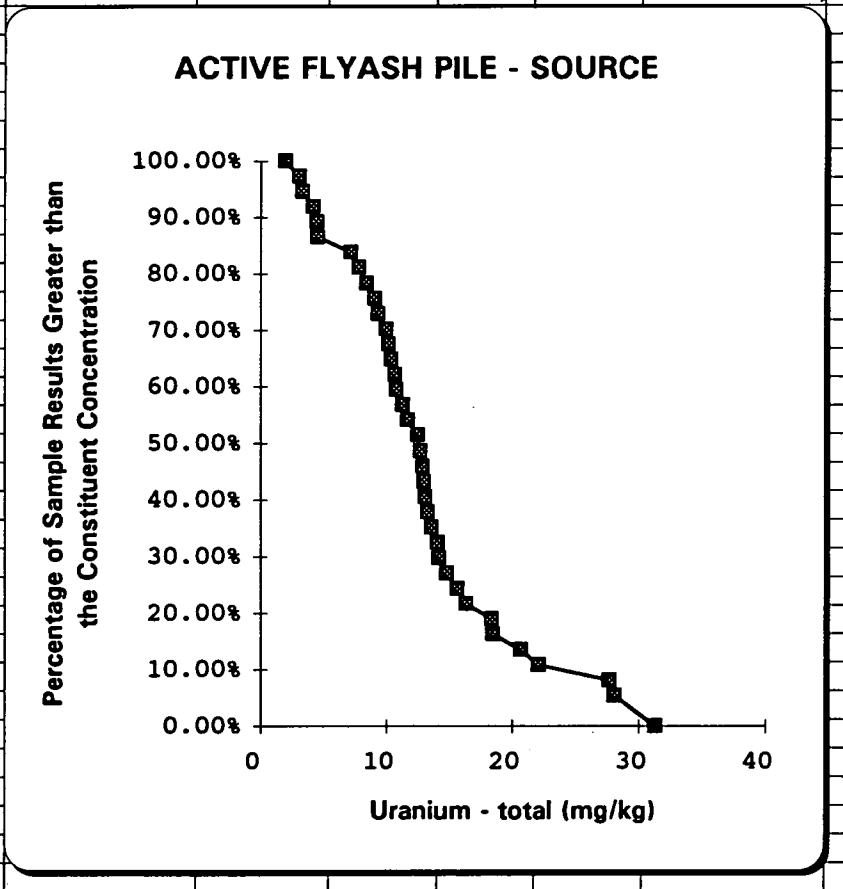


TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067146	Uranium-234	1726	17.3	pci/g	-	17.3	100.00%
067153	Uranium-234	1726	12.3	pci/g	-	12.3	97.43%
067154	Uranium-234	1726	5.7	pci/g	J	5.7	94.87%
112117	Uranium-234	1979	5.02	pci/g	-	5.02	92.30%
067166	Uranium-234	1723	4.77	pci/g	J	4.77	89.74%
067192	Uranium-234	1724	4.75	pci/g	J	4.75	87.17%
112259	Uranium-234	AFP-SS-06	4.43	pci/g	-	4.43	84.61%
067172	Uranium-234	1723	4.34	pci/g	J	4.34	82.05%
112241	Uranium-234	AFP-SD-02	4.14	pci/g	-	4.14	79.48%
067200	Uranium-234	1724	4.01	pci/g	J	4.01	76.92%
067148	Uranium-234	1726	3.9	pci/g	J	3.9	74.35%
112258	Uranium-234	AFP-SS-05	3.7	pci/g	-	3.7	71.79%
067503	Uranium-234	1820	3.68	pci/g	J	3.68	69.23%
112130	Uranium-234	1980	3.58	pci/g	-	3.58	66.66%
112129	Uranium-234	1980	3.43	pci/g	-	3.43	61.53%
112161	Uranium-234	1981	3.43	pci/g	-	3.43	61.53%
112257	Uranium-234	AFP-SS-04	3.4	pci/g	-	3.4	58.97%
112264	Uranium-234	AFP-SD-01	3.39	pci/g	J	3.39	56.41%
112160	Uranium-234	1981	3.37	pci/g	-	3.37	53.84%
112251	Uranium-234	AFP-SD-05	3.25	pci/g	-	3.25	51.28%
112167	Uranium-234	1981	3.23	pci/g	-	3.23	48.71%
112255	Uranium-234	AFP-SS-03	3.21	pci/g	-	3.21	46.15%
112254	Uranium-234	AFP-SS-02	3.09	pci/g	-	3.09	43.58%
112092	Uranium-234	1979	3.08	pci/g	-	3.08	38.46%
067505	Uranium-234	1820	3.08	pci/g	J	3.08	38.46%
112252	Uranium-234	AFP-SS-01	3.06	pci/g	-	3.06	35.89%
112145	Uranium-234	1980	3.04	pci/g	-	3.04	33.33%
112091	Uranium-234	1979	2.94	pci/g	-	2.94	30.76%
112248	Uranium-234	AFP-SD-03	2.83	pci/g	-	2.83	28.20%
112246	Uranium-234	AFP-SD-06	2.77	pci/g	-	2.77	25.64%
112249	Uranium-234	AFP-SD-04	2.37	pci/g	-	2.37	23.07%
007220	Uranium-234	1048	1.4	pci/g	J	1.4	20.51%
067217	Uranium-234	1724	1.27	pci/g	J	1.27	17.94%
112180	Uranium-234	1981	1.01	pci/g	-	1.01	15.38%

TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
007217	Uranium-234	1048	1	pci/g	J	1	12.82%
112157	Uranium-234	1980	0.952	pci/g	-	0.952	10.25%
067156	Uranium-234	1726	0.932	pci/g	J	0.932	7.69%
067506	Uranium-234	1820	0.92	pci/g	J	0.92	5.12%
112153	Uranium-234	1980	0.917	pci/g	-	0.917	2.56%
112123	Uranium-234	1979	0.772	pci/g	-	0.772	0.00%

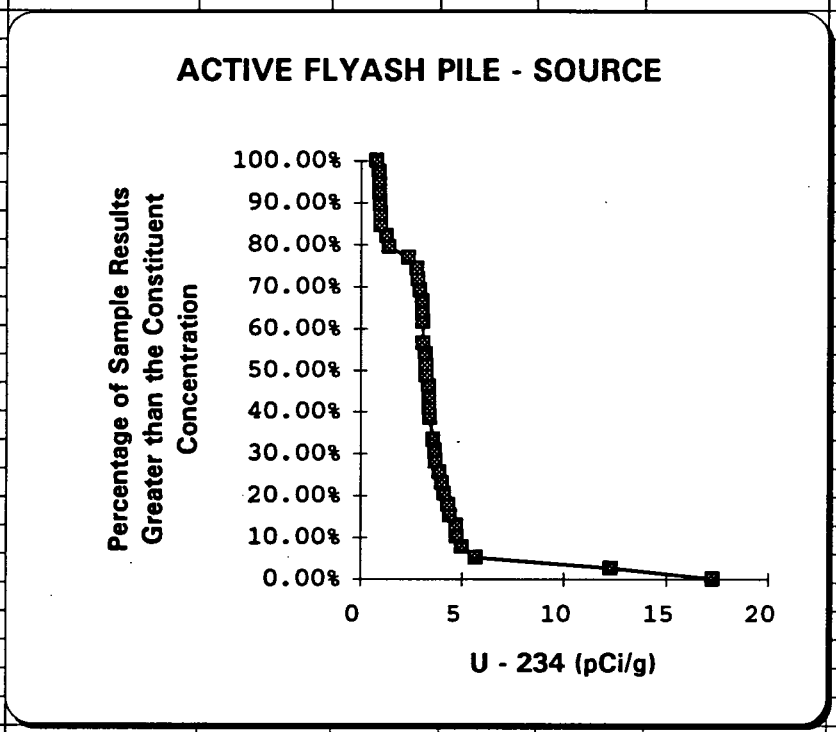


TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067146	Uranium-235/236	1726	4.12	pci/g	J	4.12	100.00%
067153	Uranium-235/236	1726	3.42	pci/g	-	3.42	97.43%
112117	Uranium-235/236	1979	0.326	pci/g	J	0.326	94.87%
067148	Uranium-235/236	1726	0.6	pci/g	UJ	0.3	61.53%
067154	Uranium-235/236	1726	0.6	pci/g	UJ	0.3	61.53%
067156	Uranium-235/236	1726	0.6	pci/g	UJ	0.3	61.53%
067166	Uranium-235/236	1723	0.6	pci/g	UJ	0.3	61.53%
067172	Uranium-235/236	1723	0.6	pci/g	UJ	0.3	61.53%
067192	Uranium-235/236	1724	0.6	pci/g	UJ	0.3	61.53%
067200	Uranium-235/236	1724	0.6	pci/g	UJ	0.3	61.53%
067503	Uranium-235/236	1820	0.6	pci/g	UJ	0.3	61.53%
067505	Uranium-235/236	1820	0.6	pci/g	UJ	0.3	61.53%
067217	Uranium-235/236	1724	0.6	pci/g	UJ	0.3	61.53%
007220	Uranium-235/236	1048	0.6	pci/g	UJ	0.3	61.53%
007217	Uranium-235/236	1048	0.6	pci/g	UJ	0.3	61.53%
067506	Uranium-235/236	1820	0.6	pci/g	UJ	0.3	61.53%
112167	Uranium-235/236	1981	0.22	pci/g	-	0.22	58.97%
112264	Uranium-235/236	AFP-SD-01	0.199	pci/g	J	0.199	56.41%
112241	Uranium-235/236	AFP-SD-02	0.196	pci/g	J	0.196	53.84%
112130	Uranium-235/236	1980	0.19	pci/g	J	0.19	48.71%
112160	Uranium-235/236	1981	0.19	pci/g	-	0.19	48.71%
112145	Uranium-235/236	1980	0.179	pci/g	J	0.179	46.15%
112255	Uranium-235/236	AFP-SS-03	0.178	pci/g	J	0.178	43.58%
112249	Uranium-235/236	AFP-SD-04	0.173	pci/g	J	0.173	41.02%
112246	Uranium-235/236	AFP-SD-06	0.163	pci/g	J	0.163	38.46%
112254	Uranium-235/236	AFP-SS-02	0.16	pci/g	J	0.16	35.89%
112258	Uranium-235/236	AFP-SS-05	0.159	pci/g	J	0.159	33.33%
112251	Uranium-235/236	AFP-SD-05	0.152	pci/g	J	0.152	30.76%
112257	Uranium-235/236	AFP-SS-04	0.151	pci/g	J	0.151	28.20%
112248	Uranium-235/236	AFP-SD-03	0.13	pci/g	J	0.13	25.64%
112092	Uranium-235/236	1979	0.125	pci/g	J	0.125	23.07%
112161	Uranium-235/236	1981	0.12	pci/g	-	0.12	17.94%
112252	Uranium-235/236	AFP-SS-01	0.12	pci/g	J	0.12	17.94%
112259	Uranium-235/236	AFP-SS-06	0.106	pci/g	J	0.106	15.38%

TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112091	Uranium-235/236	1979	0.082	pci/g	J	0.082	12.82%
112157	Uranium-235/236	1980	0.069	pci/g	J	0.069	10.25%
112180	Uranium-235/236	1981	0.05	pci/g	-	0.05	7.69%
112153	Uranium-235/236	1980	0.0439	pci/g	J	0.0439	5.12%
112123	Uranium-235/236	1979	0.043	pci/g	J	0.043	2.56%
112129	Uranium-235/236	1980	0.0835	pci/g	UJ	0.04175	0.00%

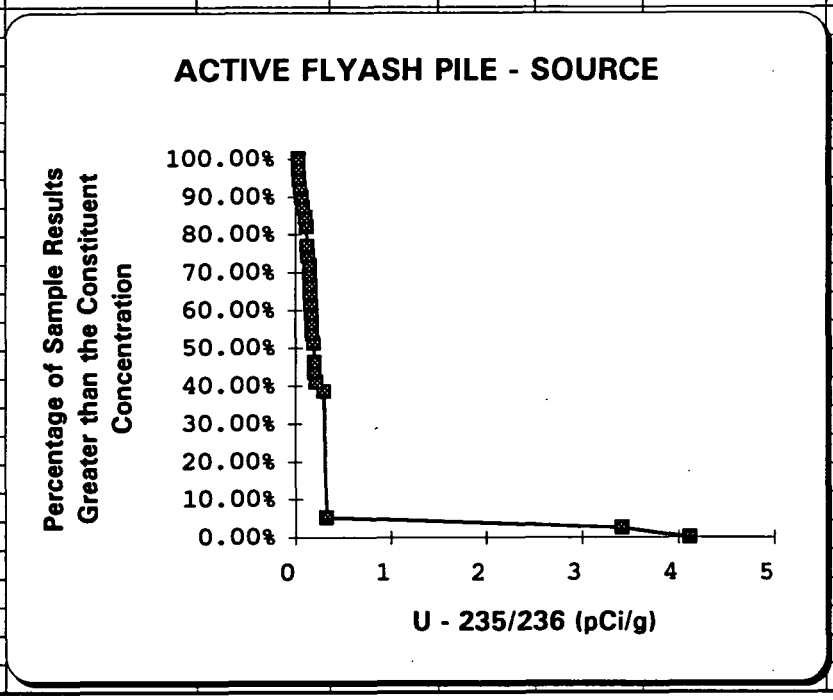


TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067146	Uranium-238	1726	12.6	pci/g	-	12.6	100.00%
067153	Uranium-238	1726	9.67	pci/g	-	9.67	97.43%
067172	Uranium-238	1723	7.96	pci/g	J	7.96	94.87%
067154	Uranium-238	1726	7.93	pci/g	-	7.93	92.30%
067505	Uranium-238	1820	7.23	pci/g	-	7.23	89.74%
112117	Uranium-238	1979	7.12	pci/g	-	7.12	87.17%
067200	Uranium-238	1724	5.53	pci/g	J	5.53	84.61%
067192	Uranium-238	1724	4.96	pci/g	J	4.96	82.05%
067166	Uranium-238	1723	4.92	pci/g	J	4.92	79.48%
112241	Uranium-238	AFP-SD-02	4.39	pci/g	-	4.39	76.92%
112145	Uranium-238	1980	3.94	pci/g	-	3.94	74.35%
112259	Uranium-238	AFP-SS-06	3.9	pci/g	-	3.9	71.79%
067148	Uranium-238	1726	3.77	pci/g	-	3.77	69.23%
112160	Uranium-238	1981	3.67	pci/g	-	3.67	66.66%
112251	Uranium-238	AFP-SD-05	3.62	pci/g	-	3.62	64.10%
112167	Uranium-238	1981	3.58	pci/g	-	3.58	61.53%
112257	Uranium-238	AFP-SS-04	3.5	pci/g	-	3.5	58.97%
112129	Uranium-238	1980	3.47	pci/g	-	3.47	56.41%
112130	Uranium-238	1980	3.46	pci/g	-	3.46	53.84%
112264	Uranium-238	AFP-SD-01	3.42	pci/g	-	3.42	51.28%
112258	Uranium-238	AFP-SS-05	3.37	pci/g	-	3.37	48.71%
112252	Uranium-238	AFP-SS-01	3.36	pci/g	-	3.36	46.15%
112161	Uranium-238	1981	3.32	pci/g	-	3.32	43.58%
112092	Uranium-238	1979	3.27	pci/g	-	3.27	41.02%
067503	Uranium-238	1820	3.15	pci/g	-	3.15	38.46%
112248	Uranium-238	AFP-SD-03	3.11	pci/g	-	3.11	33.33%
112255	Uranium-238	AFP-SS-03	3.11	pci/g	-	3.11	33.33%
112249	Uranium-238	AFP-SD-04	3.05	pci/g	-	3.05	30.76%
112254	Uranium-238	AFP-SS-02	2.95	pci/g	-	2.95	28.20%
112246	Uranium-238	AFP-SD-06	2.9	pci/g	-	2.9	25.64%
112091	Uranium-238	1979	2.88	pci/g	-	2.88	23.07%
007220	Uranium-238	1048	2.8	pci/g	J	2.8	20.51%
007217	Uranium-238	1048	2.4	pci/g	J	2.4	17.94%
067217	Uranium-238	1724	2.04	pci/g	-	2.04	15.38%

TABLE A.6-11
ACTIVE FLYASH PILE - SOURCE

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112157	Uranium-238	1980	1.21	pci/g	-	1.21	12.82%
112180	Uranium-238	1981	1.2	pci/g	-	1.2	10.25%
112153	Uranium-238	1980	1.19	pci/g	-	1.19	7.69%
067156	Uranium-238	1726	1.11	pci/g	-	1.11	5.12%
067506	Uranium-238	1820	0.97	pci/g	-	0.97	2.56%
112123	Uranium-238	1979	0.93	pci/g	-	0.93	0.00%

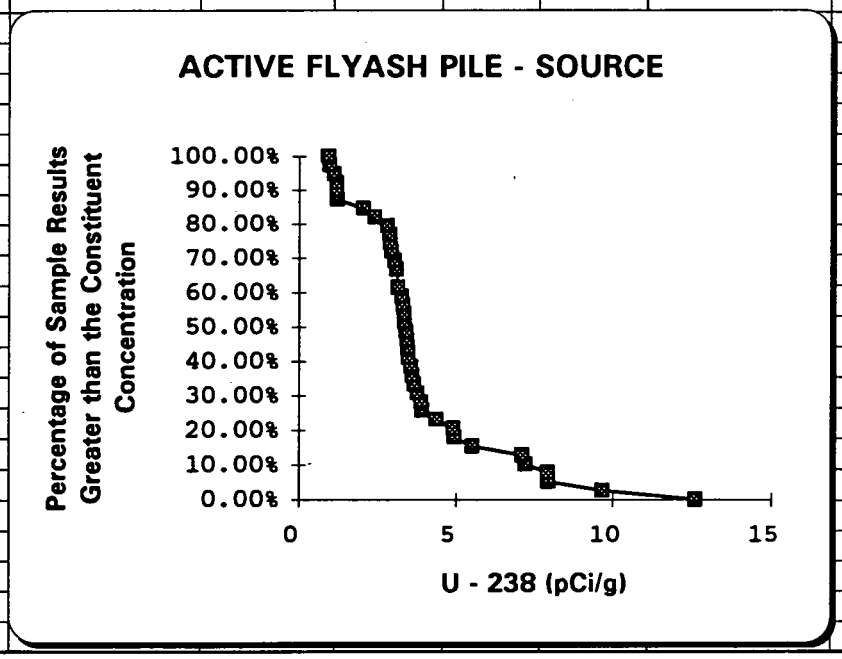


TABLE A.6-12
ACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112091	Arsenic	1979	145	mg/kg	-	145	100.00%
112254	Arsenic	AFP-SS-02	129	mg/kg	-	129	96.55%
112160	Arsenic	1981	115	mg/kg	J	115	93.10%
112129	Arsenic	1980	94.8	mg/kg	-	94.8	89.65%
112255	Arsenic	AFP-SS-03	89.4	mg/kg	-	89.4	86.20%
112117	Arsenic	1979	87.8	mg/kg	-	87.8	82.75%
112258	Arsenic	AFP-SS-05	82.8	mg/kg	-	82.8	79.31%
112130	Arsenic	1980	79.3	mg/kg	-	79.3	75.86%
112145	Arsenic	1980	75.9	mg/kg	-	75.9	72.41%
112257	Arsenic	AFP-SS-04	69.1	mg/kg	-	69.1	68.96%
067149	Arsenic	1726	66.5	mg/kg	-	66.5	65.51%
067173	Arsenic	1723	66.1	mg/kg	-	66.1	62.06%
067201	Arsenic	1724	65.5	mg/kg	-	65.5	58.62%
067503	Arsenic	1820	64.7	mg/kg	-	64.7	55.17%
112252	Arsenic	AFP-SS-01	64.2	mg/kg	-	64.2	51.72%
112167	Arsenic	1981	55.6	mg/kg	J	55.6	48.27%
112259	Arsenic	AFP-SS-06	53.1	mg/kg	-	53.1	44.82%
067167	Arsenic	1723	51.1	mg/kg	-	51.1	41.37%
067505	Arsenic	1820	51	mg/kg	-	51	37.93%
112251	Arsenic	AFP-SD-05	50.4	mg/kg	-	50.4	34.48%
112264	Arsenic	AFP-SD-01	37	mg/kg	-	37	31.03%
112249	Arsenic	AFP-SD-04	27.2	mg/kg	-	27.2	27.58%
112092	Arsenic	1979	23.2	mg/kg	-	23.2	24.13%
067193	Arsenic	1724	19.4	mg/kg	-	19.4	20.68%
112161	Arsenic	1981	16.9	mg/kg	J	16.9	17.24%
112248	Arsenic	AFP-SD-03	13.2	mg/kg	-	13.2	13.79%
112246	Arsenic	AFP-SD-06	10.9	mg/kg	-	10.9	10.34%
112241	Arsenic	AFP-SD-02	10.4	mg/kg	-	10.4	6.89%
067155	Arsenic	1726	9.1	mg/kg	-	9.1	3.44%
112153	Arsenic	1980	7.9	mg/kg	-	7.9	0.00%

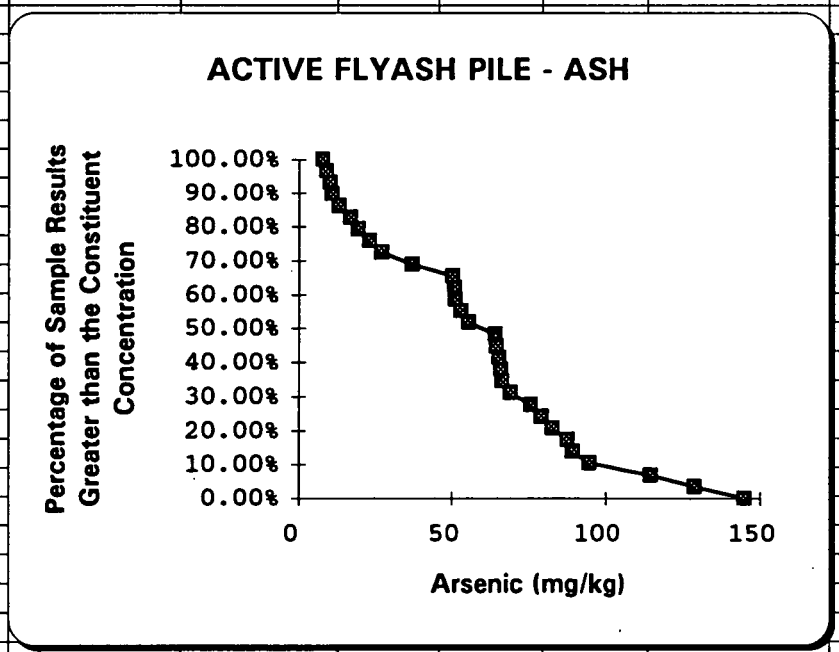


TABLE A.6-12
ACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112129	Beryllium	1980	6.4	mg/kg	-	6.4	100.00%
112160	Beryllium	1981	5.8	mg/kg	-	5.8	96.55%
112259	Beryllium	AFP-SS-06	5.7	mg/kg	-	5.7	93.10%
112091	Beryllium	1979	5.4	mg/kg	-	5.4	89.65%
112258	Beryllium	AFP-SS-05	4.6	mg/kg	-	4.6	82.75%
067173	Beryllium	1723	4.6	mg/kg	-	4.6	82.75%
112255	Beryllium	AFP-SS-03	4.5	mg/kg	-	4.5	79.31%
112254	Beryllium	AFP-SS-02	4.3	mg/kg	-	4.3	72.41%
112257	Beryllium	AFP-SS-04	4.3	mg/kg	-	4.3	72.41%
112130	Beryllium	1980	3.9	mg/kg	-	3.9	62.06%
112145	Beryllium	1980	3.9	mg/kg	-	3.9	62.06%
067167	Beryllium	1723	3.9	mg/kg	-	3.9	62.06%
112167	Beryllium	1981	3.8	mg/kg	-	3.8	58.62%
112251	Beryllium	AFP-SD-05	3.1	mg/kg	-	3.1	55.17%
112252	Beryllium	AFP-SS-01	3	mg/kg	-	3	48.27%
067201	Beryllium	1724	3	mg/kg	-	3	48.27%
067149	Beryllium	1726	2.8	mg/kg	-	2.8	44.82%
067503	Beryllium	1820	2.6	mg/kg	-	2.6	41.37%
112117	Beryllium	1979	2.5	mg/kg	-	2.5	37.93%
112092	Beryllium	1979	2.4	mg/kg	-	2.4	31.03%
067193	Beryllium	1724	2.4	mg/kg	-	2.4	31.03%
112161	Beryllium	1981	2.3	mg/kg	-	2.3	27.58%
112249	Beryllium	AFP-SD-04	2.1	mg/kg	-	2.1	24.13%
112264	Beryllium	AFP-SD-01	2	mg/kg	-	2	20.68%
112241	Beryllium	AFP-SD-02	1.9	mg/kg	-	1.9	17.24%
112248	Beryllium	AFP-SD-03	1.5	mg/kg	-	1.5	13.79%
112153	Beryllium	1980	1.4	mg/kg	-	1.4	6.89%
112246	Beryllium	AFP-SD-06	1.4	mg/kg	-	1.4	6.89%
067155	Beryllium	1726	1.2	mg/kg	-	1.2	3.44%
067505	Beryllium	1820	0.65	mg/kg	-	0.65	0.00%

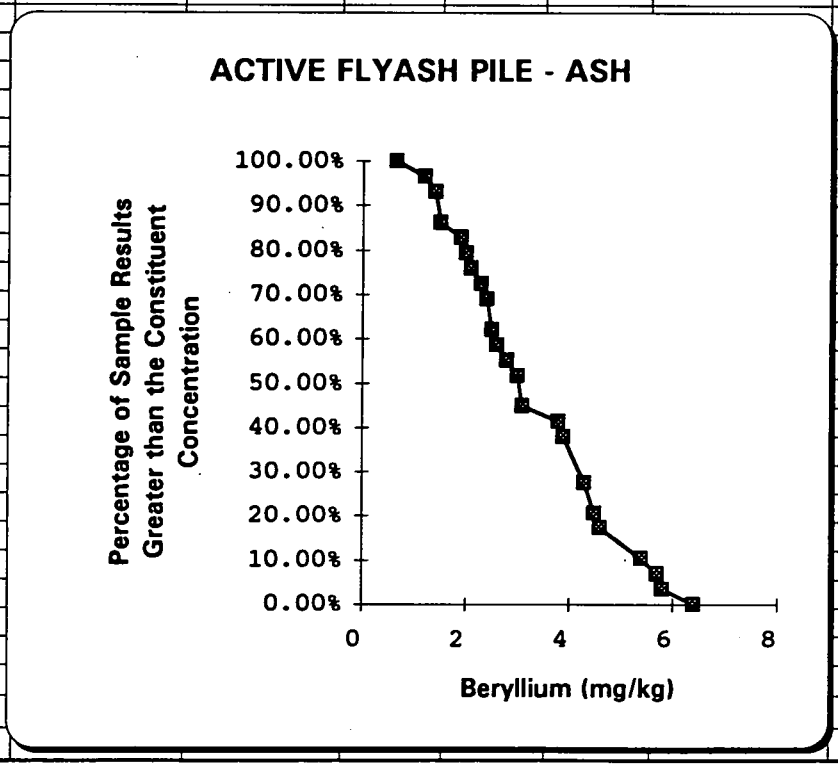


TABLE A.6-12
ACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112241	Cesium-137	AFP-SD-02	0.919	pci/g	-	0.919	100.00%
112248	Cesium-137	AFP-SD-03	0.459	pci/g	-	0.459	96.80%
112251	Cesium-137	AFP-SD-05	0.171	pci/g	J	0.171	93.70%
67146	Cesium-137	1726	0.2	pci/g	U	0.1	62.50%
67148	Cesium-137	1726	0.2	pci/g	UJ	0.1	62.50%
67153	Cesium-137	1726	0.2	pci/g	U	0.1	62.50%
67154	Cesium-137	1726	0.2	pci/g	UJ	0.1	62.50%
67156	Cesium-137	1726	0.2	pci/g	UJ	0.1	62.50%
67166	Cesium-137	1723	0.2	pci/g	UJ	0.1	62.50%
67172	Cesium-137	1723	0.2	pci/g	UJ	0.1	62.50%
67192	Cesium-137	1724	0.2	pci/g	UJ	0.1	62.50%
67503	Cesium-137	1820	0.2	pci/g	UJ	0.1	62.50%
67505	Cesium-137	1820	0.2	pci/g	UJ	0.1	62.50%
112246	Cesium-137	AFP-SD-06	0.086	pci/g	J	0.086	59.30%
112249	Cesium-137	AFP-SD-04	0.0721	pci/g	J	0.0721	56.20%
112264	Cesium-137	AFP-SD-01	0.122	pci/g	UJ	0.061	53.10%
112161	Cesium-137	1981	0.12	pci/g	UJ	0.06	50.00%
112130	Cesium-137	1980	0.116	pci/g	UJ	0.058	46.80%
112091	Cesium-137	1979	0.115	pci/g	UJ	0.0575	43.70%
112252	Cesium-137	AFP-SS-01	0.11	pci/g	UJ	0.055	40.60%
112257	Cesium-137	AFP-SS-04	0.109	pci/g	UJ	0.0545	37.50%
112259	Cesium-137	AFP-SS-06	0.107	pci/g	UJ	0.0535	34.30%
112167	Cesium-137	1981	0.1	pci/g	UJ	0.05	28.10%
67200	Cesium-137	1724	0.1	pci/g	UJ	0.05	28.10%
112153	Cesium-137	1980	0.0993	pci/g	UJ	0.04965	25.00%
112117	Cesium-137	1979	0.0982	pci/g	UJ	0.0491	21.80%
112254	Cesium-137	AFP-SS-02	0.09	pci/g	UJ	0.045	18.70%
112129	Cesium-137	1980	0.0899	pci/g	UJ	0.04495	15.60%
112258	Cesium-137	AFP-SS-05	0.088	pci/g	UJ	0.044	12.50%
112255	Cesium-137	AFP-SS-03	0.0829	pci/g	UJ	0.04145	9.30%
112092	Cesium-137	1979	0.0821	pci/g	UJ	0.04105	6.20%
112145	Cesium-137	1980	0.0801	pci/g	UJ	0.04005	3.10%
112160	Cesium-137	1981	0.08	pci/g	UJ	0.04	.00%

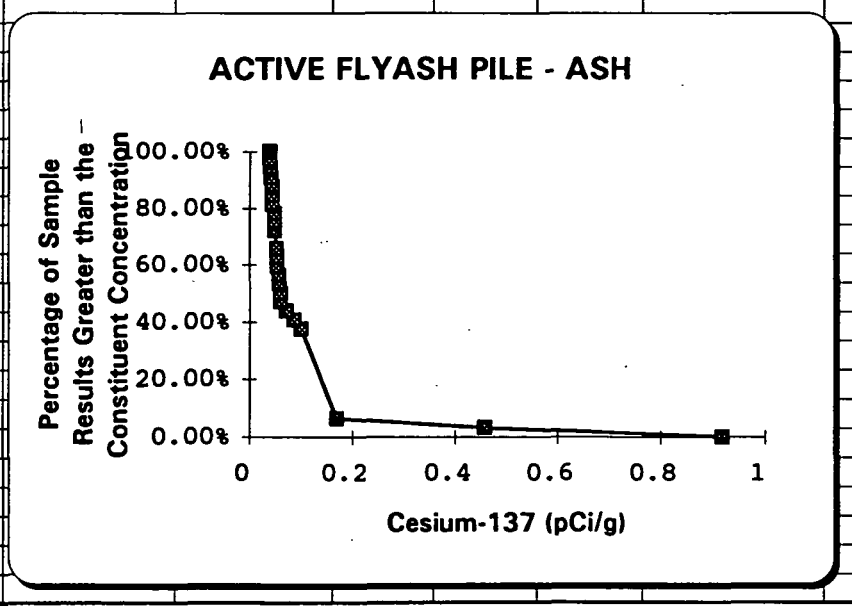


TABLE A.6-12
ACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112167	Neptunium-237	1981	0.45	pci/g	N	0.45	100.00%
112160	Neptunium-237	1981	0.3	pci/g	N	0.3	55.55%
112161	Neptunium-237	1981	0.3	pci/g	N	0.3	55.55%
067146	Neptunium-237	1726	0.6	pci/g	UJ	0.3	55.55%
067153	Neptunium-237	1726	0.6	pci/g	UJ	0.3	55.55%
067166	Neptunium-237	1723	0.6	pci/g	U	0.3	55.55%
067172	Neptunium-237	1723	0.6	pci/g	U	0.3	55.55%
067192	Neptunium-237	1724	0.6	pci/g	U	0.3	55.55%
067200	Neptunium-237	1724	0.6	pci/g	U	0.3	55.55%
112153	Neptunium-237	1980	0.152	pci/g	N	0.152	50.00%
112249	Neptunium-237	AFP-SD-04	0.124	pci/g	N	0.124	44.44%
112092	Neptunium-237	1979	0.122	pci/g	N	0.122	38.88%
112241	Neptunium-237	AFP-SD-02	0.12	pci/g	N	0.12	33.33%
112130	Neptunium-237	1980	0.11	pci/g	N	0.11	27.77%
112129	Neptunium-237	1980	0.0825	pci/g	N	0.0825	22.22%
112117	Neptunium-237	1979	0.059	pci/g	N	0.059	16.66%
112251	Neptunium-237	AFP-SD-05	0.058	pci/g	N	0.058	11.11%
112248	Neptunium-237	AFP-SD-03	0.057	pci/g	N	0.057	5.55%
112246	Neptunium-237	AFP-SD-06	0.038	pci/g	N	0.038	0.00%

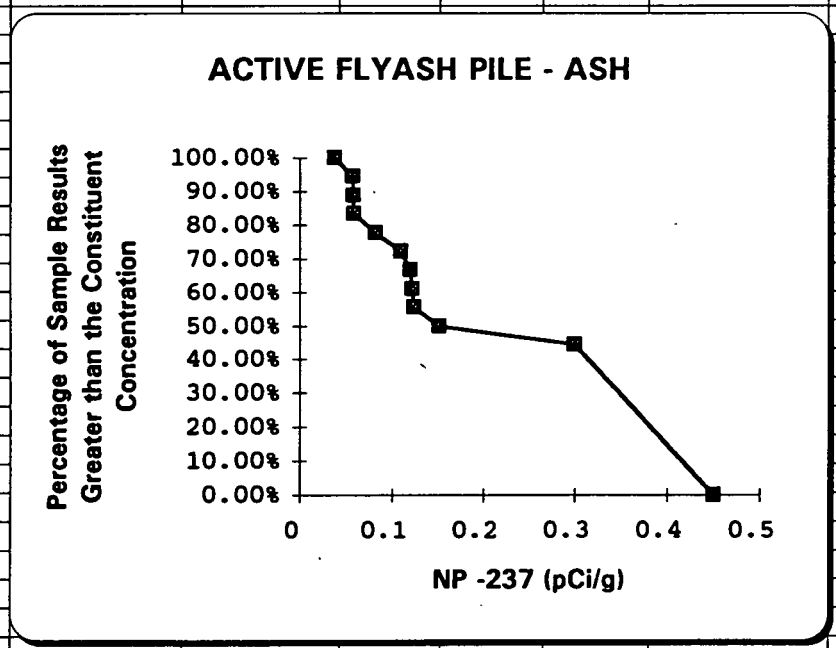


TABLE A.6-12
ACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067192	Radium-226	1724	6.22	pci/g	J	6.22	100.00%
112160	Radium-226	1981	4.61	pci/g	-	4.61	96.87%
067154	Radium-226	1726	4.52	pci/g	J	4.52	93.75%
067148	Radium-226	1726	4.51	pci/g	J	4.51	90.62%
067166	Radium-226	1723	4.12	pci/g	J	4.12	87.50%
067172	Radium-226	1723	4.05	pci/g	J	4.05	84.37%
112117	Radium-226	1979	4.02	pci/g	-	4.02	81.25%
112130	Radium-226	1980	3.97	pci/g	-	3.97	78.12%
112259	Radium-226	AFP-SS-06	3.8	pci/g	-	3.8	75.00%
067153	Radium-226	1726	3.76	pci/g	-	3.76	71.87%
112257	Radium-226	AFP-SS-04	3.73	pci/g	-	3.73	68.75%
112255	Radium-226	AFP-SS-03	3.6	pci/g	-	3.6	62.50%
067200	Radium-226	1724	3.6	pci/g	J	3.6	62.50%
112161	Radium-226	1981	3.55	pci/g	-	3.55	59.37%
112258	Radium-226	AFP-SS-05	3.53	pci/g	-	3.53	53.12%
112264	Radium-226	AFP-SD-01	3.53	pci/g	-	3.53	53.12%
112092	Radium-226	1979	3.51	pci/g	-	3.51	50.00%
112129	Radium-226	1980	3.45	pci/g	-	3.45	46.87%
112091	Radium-226	1979	3.32	pci/g	-	3.32	43.75%
112252	Radium-226	AFP-SS-01	3.29	pci/g	-	3.29	40.62%
112254	Radium-226	AFP-SS-02	3.28	pci/g	-	3.28	37.50%
112167	Radium-226	1981	3.27	pci/g	-	3.27	34.37%
067503	Radium-226	1820	3.16	pci/g	J	3.16	31.25%
067146	Radium-226	1726	3.04	pci/g	-	3.04	28.12%
112145	Radium-226	1980	2.96	pci/g	-	2.96	25.00%
112251	Radium-226	AFP-SD-05	2.75	pci/g	-	2.75	21.87%
067505	Radium-226	1820	2.53	pci/g	J	2.53	18.75%
112249	Radium-226	AFP-SD-04	1.96	pci/g	-	1.96	15.62%
067156	Radium-226	1726	1.45	pci/g	J	1.45	12.50%
112248	Radium-226	AFP-SD-03	1.38	pci/g	-	1.38	9.37%
112246	Radium-226	AFP-SD-06	1.32	pci/g	-	1.32	6.25%
112241	Radium-226	AFP-SD-02	1.3	pci/g	-	1.3	3.12%
112153	Radium-226	1980	1.15	pci/g	-	1.15	0.00%

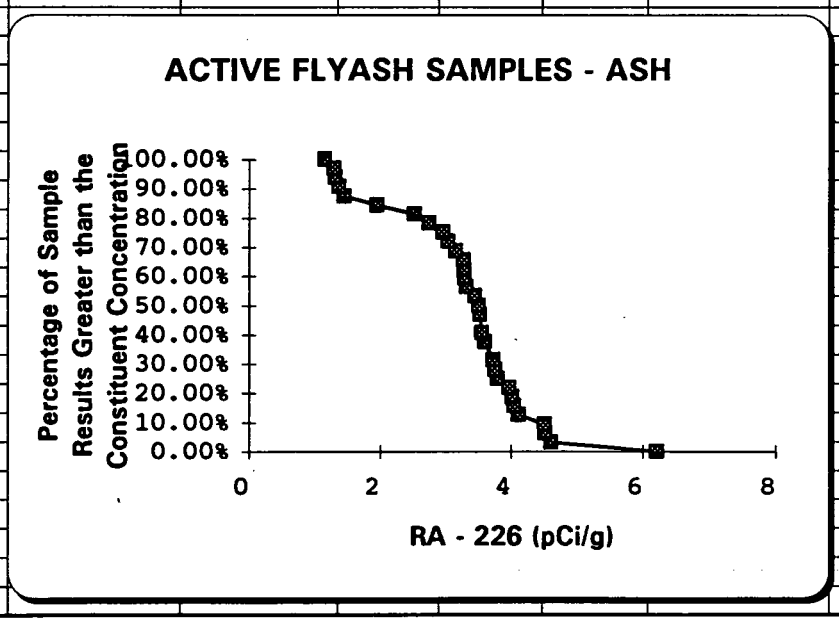


TABLE A.6-12
ACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067192	Radium-228	1724	5.32	pci/g	J	5.32	100.00%
067166	Radium-228	1723	3.89	pci/g	J	3.89	96.87%
112117	Radium-228	1979	3.69	pci/g	-	3.69	93.75%
067148	Radium-228	1726	3.61	pci/g	J	3.61	90.62%
067154	Radium-228	1726	3.45	pci/g	J	3.45	87.50%
112160	Radium-228	1981	3.17	pci/g	-	3.17	84.37%
112161	Radium-228	1981	3.07	pci/g	-	3.07	81.25%
112257	Radium-228	AFP-SS-04	2.98	pci/g	-	2.98	78.12%
112255	Radium-228	AFP-SS-03	2.92	pci/g	-	2.92	71.87%
112264	Radium-228	AFP-SD-01	2.92	pci/g	-	2.92	71.87%
112092	Radium-228	1979	2.91	pci/g	-	2.91	65.62%
067146	Radium-228	1726	2.91	pci/g	-	2.91	65.62%
112252	Radium-228	AFP-SS-01	2.9	pci/g	-	2.9	62.50%
112091	Radium-228	1979	2.86	pci/g	-	2.86	59.37%
067153	Radium-228	1726	2.85	pci/g	-	2.85	56.25%
112130	Radium-228	1980	2.84	pci/g	-	2.84	53.12%
067172	Radium-228	1723	2.83	pci/g	J	2.83	50.00%
112259	Radium-228	AFP-SS-06	2.8	pci/g	-	2.8	46.87%
067200	Radium-228	1724	2.76	pci/g	J	2.76	43.75%
112258	Radium-228	AFP-SS-05	2.75	pci/g	-	2.75	40.62%
067503	Radium-228	1820	2.7	pci/g	J	2.7	37.50%
112129	Radium-228	1980	2.69	pci/g	-	2.69	34.37%
112254	Radium-228	AFP-SS-02	2.58	pci/g	-	2.58	31.25%
112251	Radium-228	AFP-SD-05	2.48	pci/g	-	2.48	28.12%
112167	Radium-228	1981	2.42	pci/g	-	2.42	25.00%
112145	Radium-228	1980	2.23	pci/g	-	2.23	18.75%
067505	Radium-228	1820	2.23	pci/g	J	2.23	18.75%
112249	Radium-228	AFP-SD-04	1.67	pci/g	-	1.67	15.62%
112248	Radium-228	AFP-SD-03	1.29	pci/g	-	1.29	12.50%
112153	Radium-228	1980	1.07	pci/g	-	1.07	9.37%
067156	Radium-228	1726	1.04	pci/g	J	1.04	6.25%
112241	Radium-228	AFP-SD-02	1.01	pci/g	-	1.01	3.12%
112246	Radium-228	AFP-SD-06	0.908	pci/g	-	0.908	0.00%

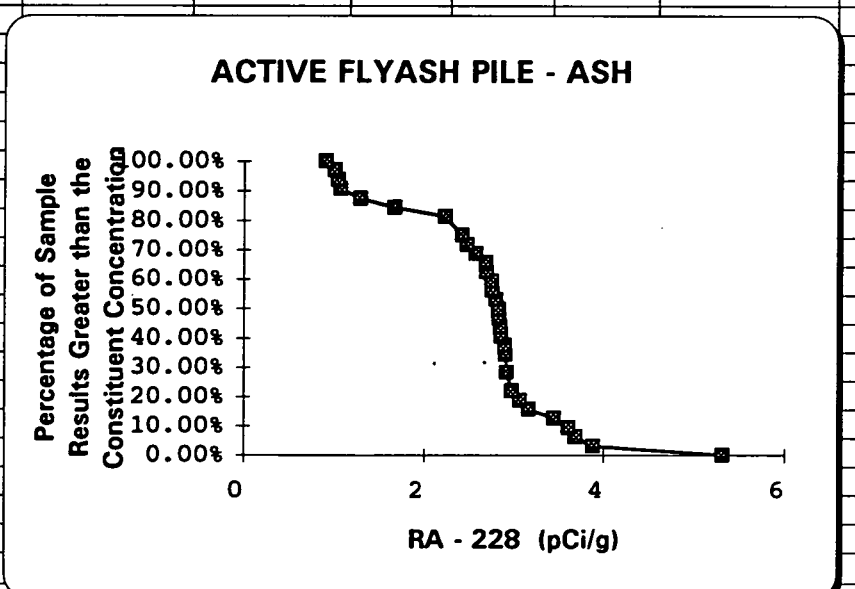


TABLE A.6-12
ACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112254	Strontium-90	AFP-SS-02	4.47	pci/g	J	4.47	100.00%
112252	Strontium-90	AFP-SS-01	4.24	pci/g	J	4.24	96.80%
112257	Strontium-90	AFP-SS-04	1.73	pci/g	J	1.73	93.70%
67192	Strontium-90	1724	1.53	pci/g	J	1.53	90.60%
67503	Strontium-90	1820	1.4	pci/g	-	1.4	87.50%
67148	Strontium-90	1726	1.37	pci/g	-	1.37	84.30%
67200	Strontium-90	1724	1.27	pci/g	J	1.27	81.20%
67156	Strontium-90	1726	1.21	pci/g	J	1.21	78.10%
67154	Strontium-90	1726	1.16	pci/g	J	1.16	75.00%
67172	Strontium-90	1723	1.09	pci/g	J	1.09	71.80%
67166	Strontium-90	1723	1.01	pci/g	J	1.01	68.70%
112160	Strontium-90	1981	0.76	pci/g	J	0.76	65.60%
112092	Strontium-90	1979	0.705	pci/g	-	0.705	62.50%
112161	Strontium-90	1981	0.65	pci/g	J	0.65	59.30%
67146	Strontium-90	1726	0.9	pci/g	U	0.45	53.10%
67153	Strontium-90	1726	0.9	pci/g	U	0.45	53.10%
112255	Strontium-90	AFP-SS-03	0.386	pci/g	J	0.386	50.00%
67505	Strontium-90	1820	0.5	pci/g	U	0.25	46.80%
112241	Strontium-90	AFP-SD-02	0.227	pci/g	J	0.227	43.70%
112251	Strontium-90	AFP-SD-05	0.214	pci/g	J	0.214	40.60%
112129	Strontium-90	1980	0.324	pci/g	UJ	0.162	37.50%
112259	Strontium-90	AFP-SS-06	0.293	pci/g	UJ	0.1465	34.30%
112258	Strontium-90	AFP-SS-05	0.281	pci/g	UJ	0.1405	31.20%
112091	Strontium-90	1979	0.255	pci/g	UJ	0.1275	28.10%
112117	Strontium-90	1979	0.248	pci/g	UJ	0.124	25.00%
112264	Strontium-90	AFP-SD-01	0.245	pci/g	UJ	0.1225	21.80%
112130	Strontium-90	1980	0.198	pci/g	UJ	0.099	18.70%
112167	Strontium-90	1981	0.18	pci/g	UJ	0.09	15.60%
112145	Strontium-90	1980	0.171	pci/g	UJ	0.0855	12.50%
112153	Strontium-90	1980	0.157	pci/g	UJ	0.0785	9.30%
112248	Strontium-90	AFP-SD-03	0.156	pci/g	UJ	0.078	6.20%
112249	Strontium-90	AFP-SD-04	0.153	pci/g	UJ	0.0765	3.10%
112246	Strontium-90	AFP-SD-06	0.141	pci/g	UJ	0.0705	.00%

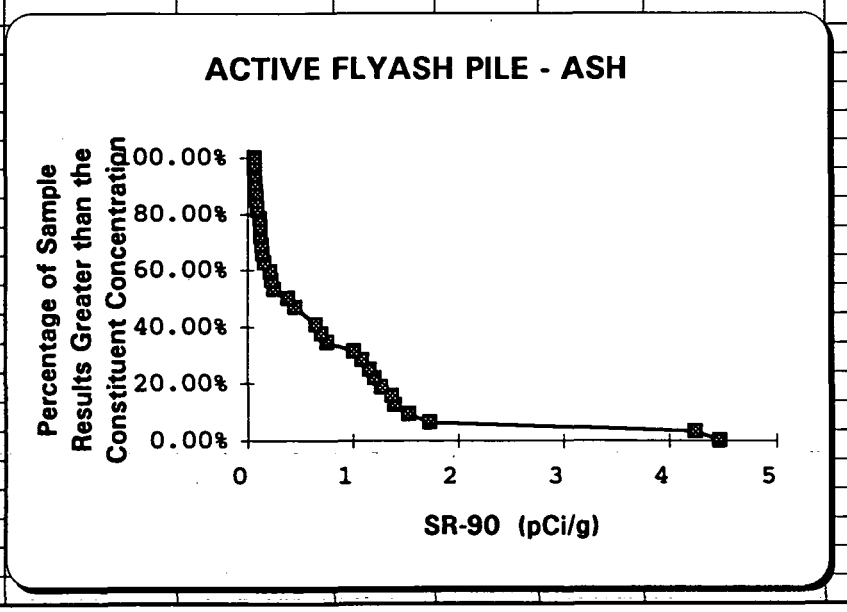


TABLE A.6-12
ACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067146	Technetium-99	1726	0.9	pci/g	U	0.45	73.33%
067148	Technetium-99	1726	0.9	pci/g	U	0.45	73.33%
067153	Technetium-99	1726	0.9	pci/g	U	0.45	73.33%
067154	Technetium-99	1726	0.9	pci/g	U	0.45	73.33%
067156	Technetium-99	1726	0.9	pci/g	U	0.45	73.33%
067166	Technetium-99	1723	0.9	pci/g	U	0.45	73.33%
067172	Technetium-99	1723	0.9	pci/g	U	0.45	73.33%
067192	Technetium-99	1724	0.9	pci/g	U	0.45	73.33%
067200	Technetium-99	1724	0.9	pci/g	U	0.45	73.33%
112241	Technetium-99	AFP-SD-02	0.533	pci/g	UJ	0.2665	70.00%
112091	Technetium-99	1979	0.525	pci/g	UJ	0.2625	66.66%
112117	Technetium-99	1979	0.522	pci/g	UJ	0.261	63.33%
112092	Technetium-99	1979	0.514	pci/g	UJ	0.257	60.00%
112160	Technetium-99	1981	0.46	pci/g	UJ	0.23	56.66%
112145	Technetium-99	1980	0.451	pci/g	UJ	0.2255	53.33%
112255	Technetium-99	AFP-SS-03	0.429	pci/g	UJ	0.2145	50.00%
112130	Technetium-99	1980	0.426	pci/g	UJ	0.213	46.66%
112129	Technetium-99	1980	0.414	pci/g	UJ	0.207	43.33%
112161	Technetium-99	1981	0.41	pci/g	UJ	0.205	40.00%
112257	Technetium-99	AFP-SS-04	0.396	pci/g	UJ	0.198	36.66%
112153	Technetium-99	1980	0.388	pci/g	UJ	0.194	33.33%
112167	Technetium-99	1981	0.38	pci/g	UJ	0.19	26.66%
112254	Technetium-99	AFP-SS-02	0.38	pci/g	UJ	0.19	26.66%
112258	Technetium-99	AFP-SS-05	0.376	pci/g	UJ	0.188	23.33%
112252	Technetium-99	AFP-SS-01	0.36	pci/g	UJ	0.18	20.00%
112264	Technetium-99	AFP-SD-01	0.353	pci/g	UJ	0.1765	16.66%
112259	Technetium-99	AFP-SS-06	0.35	pci/g	UJ	0.175	13.33%
112249	Technetium-99	AFP-SD-04	0.31	pci/g	UJ	0.155	10.00%
112246	Technetium-99	AFP-SD-06	0.299	pci/g	UJ	0.1495	6.66%
112248	Technetium-99	AFP-SD-03	0.298	pci/g	UJ	0.149	3.33%
112251	Technetium-99	AFP-SD-05	0.296	pci/g	UJ	0.148	0.00%

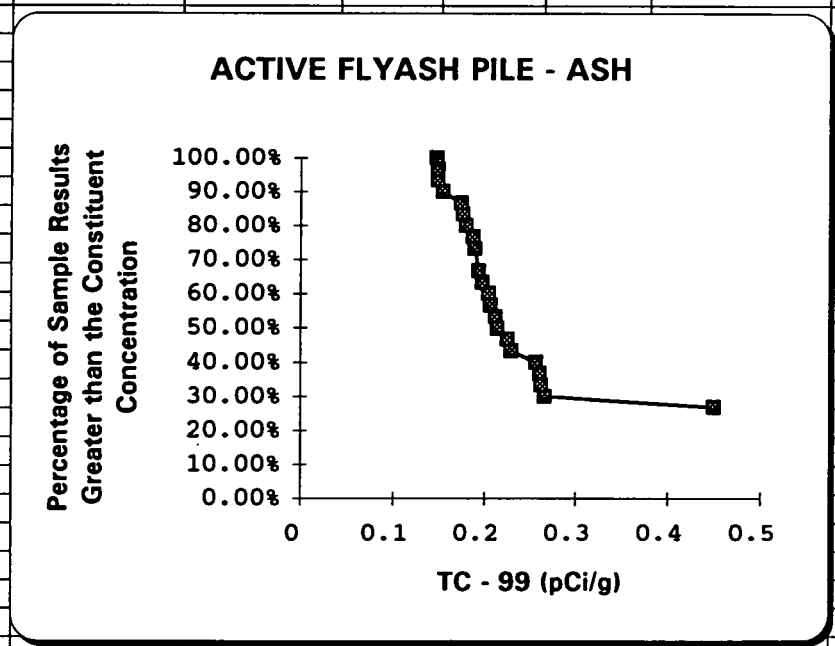


TABLE A.6-12
ACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067192	Thorium-228	1724	5.79	pci/g	J	5.79	100.00%
067154	Thorium-228	1726	4.47	pci/g	J	4.47	96.96%
112160	Thorium-228	1981	3.81	pci/g	-	3.81	93.93%
067148	Thorium-228	1726	3.46	pci/g	J	3.46	87.87%
067166	Thorium-228	1723	3.46	pci/g	J	3.46	87.87%
067505	Thorium-228	1820	3.44	pci/g	J	3.44	84.84%
112161	Thorium-228	1981	3.27	pci/g	-	3.27	81.81%
067200	Thorium-228	1724	3.21	pci/g	J	3.21	78.78%
112092	Thorium-228	1979	3.2	pci/g	-	3.2	75.75%
067503	Thorium-228	1820	3.18	pci/g	J	3.18	72.72%
112167	Thorium-228	1981	3.12	pci/g	-	3.12	69.69%
067172	Thorium-228	1723	2.99	pci/g	J	2.99	63.63%
067153	Thorium-228	1726	2.93	pci/g	J	2.93	60.60%
067146	Thorium-228	1726	2.91	pci/g	J	2.91	57.57%
112117	Thorium-228	1979	2.88	pci/g	-	2.88	54.54%
112252	Thorium-228	AFP-SS-01	2.56	pci/g	J	2.56	51.51%
112257	Thorium-228	AFP-SS-04	2.51	pci/g	J	2.51	48.48%
112130	Thorium-228	1980	2.44	pci/g	J	2.44	45.45%
112259	Thorium-228	AFP-SS-06	2.41	pci/g	J	2.41	42.42%
112129	Thorium-228	1980	2.39	pci/g	J	2.39	39.39%
112255	Thorium-228	AFP-SS-03	2.38	pci/g	J	2.38	33.33%
112264	Thorium-228	AFP-SD-01	2.38	pci/g	J	2.38	33.33%
112091	Thorium-228	1979	2.35	pci/g	-	2.35	30.30%
112254	Thorium-228	AFP-SS-02	2.34	pci/g	J	2.34	27.27%
112258	Thorium-228	AFP-SS-05	2.23	pci/g	J	2.23	24.24%
067156	Thorium-228	1726	2.09	pci/g	J	2.09	21.21%
112145	Thorium-228	1980	1.8	pci/g	J	1.8	18.18%
112251	Thorium-228	AFP-SD-05	1.78	pci/g	-	1.78	15.15%
112249	Thorium-228	AFP-SD-04	1.4	pci/g	-	1.4	12.12%
112248	Thorium-228	AFP-SD-03	1.09	pci/g	-	1.09	9.09%
112153	Thorium-228	1980	0.961	pci/g	J	0.961	6.06%
112246	Thorium-228	AFP-SD-06	0.824	pci/g	-	0.824	3.03%
112241	Thorium-228	AFP-SD-02	0.805	pci/g	J	0.805	0.00%

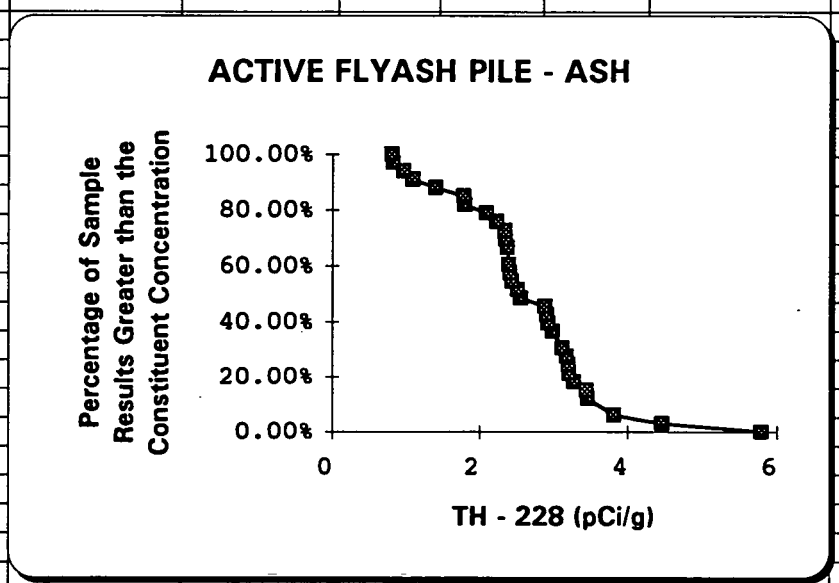


TABLE A.6-12
ACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
112160	Thorium-230	1981	6.74	pci/g	-	6.74	100.00%
067192	Thorium-230	1724	6.08	pci/g	J	6.08	96.87%
067146	Thorium-230	1726	5.92	pci/g	J	5.92	93.75%
112161	Thorium-230	1981	5.52	pci/g	-	5.52	90.62%
112167	Thorium-230	1981	5.01	pci/g	-	5.01	87.50%
067505	Thorium-230	1820	4.01	pci/g	J	4.01	84.37%
067153	Thorium-230	1726	3.8	pci/g	J	3.8	81.25%
067148	Thorium-230	1726	3.7	pci/g	J	3.7	78.12%
067154	Thorium-230	1726	3.62	pci/g	J	3.62	75.00%
067166	Thorium-230	1723	3.55	pci/g	J	3.55	71.87%
112117	Thorium-230	1979	3.52	pci/g	-	3.52	68.75%
067200	Thorium-230	1724	3.45	pci/g	J	3.45	65.62%
112130	Thorium-230	1980	3.32	pci/g	J	3.32	62.50%
112259	Thorium-230	AFP-SS-06	3.31	pci/g	J	3.31	59.37%
112092	Thorium-230	1979	3.3	pci/g	-	3.3	56.25%
112264	Thorium-230	AFP-SD-01	3.09	pci/g	J	3.09	53.12%
112257	Thorium-230	AFP-SS-04	3.03	pci/g	J	3.03	50.00%
067172	Thorium-230	1723	3.02	pci/g	J	3.02	46.87%
112252	Thorium-230	AFP-SS-01	3.01	pci/g	J	3.01	43.75%
067503	Thorium-230	1820	3	pci/g	J	3	40.62%
112255	Thorium-230	AFP-SS-03	2.93	pci/g	J	2.93	37.50%
112129	Thorium-230	1980	2.89	pci/g	J	2.89	34.37%
112258	Thorium-230	AFP-SS-05	2.87	pci/g	J	2.87	31.25%
112254	Thorium-230	AFP-SS-02	2.83	pci/g	J	2.83	28.12%
112251	Thorium-230	AFP-SD-05	2.66	pci/g	-	2.66	25.00%
112091	Thorium-230	1979	2.43	pci/g	-	2.43	21.87%
112145	Thorium-230	1980	2.4	pci/g	J	2.4	18.75%
067156	Thorium-230	1726	1.97	pci/g	J	1.97	15.62%
112249	Thorium-230	AFP-SD-04	1.73	pci/g	-	1.73	12.50%
112248	Thorium-230	AFP-SD-03	1.55	pci/g	-	1.55	9.37%
112241	Thorium-230	AFP-SD-02	1.5	pci/g	J	1.5	6.25%
112246	Thorium-230	AFP-SD-06	1.47	pci/g	-	1.47	3.12%
112153	Thorium-230	1980	1.25	pci/g	J	1.25	0.00%

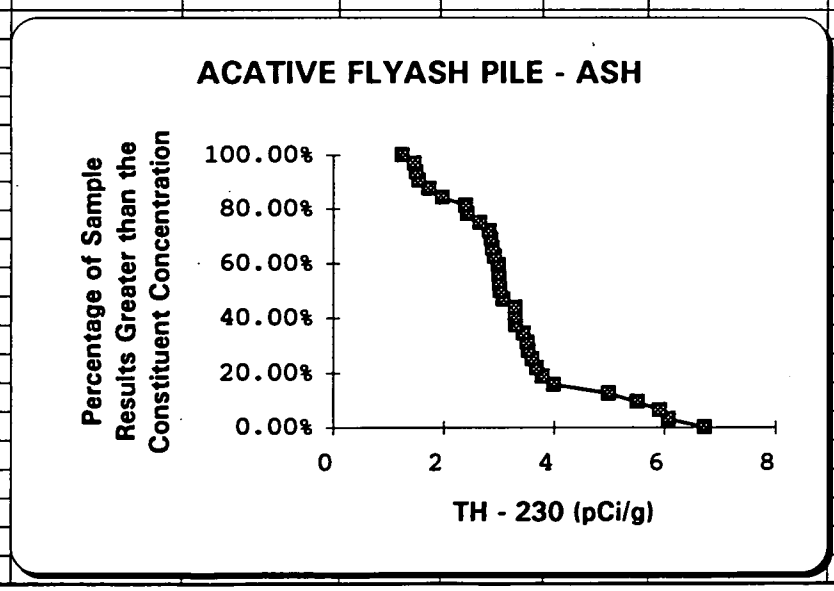


TABLE A.6-12
ACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067192	Thorium-232	1724	5.08	pci/g	J	5.08	100.00%
112160	Thorium-232	1981	3.74	pci/g	-	3.74	96.96%
112117	Thorium-232	1979	3.14	pci/g	-	3.14	93.93%
112161	Thorium-232	1981	3.12	pci/g	-	3.12	90.90%
067146	Thorium-232	1726	2.91	pci/g	J	2.91	87.87%
112092	Thorium-232	1979	2.9	pci/g	-	2.9	81.81%
067166	Thorium-232	1723	2.84	pci/g	J	2.84	78.78%
067505	Thorium-232	1820	2.82	pci/g	-	2.82	75.75%
067148	Thorium-232	1726	2.8	pci/g	-	2.8	69.69%
067154	Thorium-232	1726	2.8	pci/g	-	2.8	69.69%
112257	Thorium-232	AFP-SS-04	2.55	pci/g	J	2.55	66.66%
112259	Thorium-232	AFP-SS-06	2.53	pci/g	J	2.53	63.63%
112252	Thorium-232	AFP-SS-01	2.45	pci/g	J	2.45	60.60%
112129	Thorium-232	1980	2.44	pci/g	J	2.44	57.57%
067200	Thorium-232	1724	2.42	pci/g	J	2.42	54.54%
112264	Thorium-232	AFP-SD-01	2.41	pci/g	J	2.41	51.51%
067153	Thorium-232	1726	2.37	pci/g	J	2.37	48.48%
112130	Thorium-232	1980	2.36	pci/g	J	2.36	45.45%
112254	Thorium-232	AFP-SS-02	2.34	pci/g	J	2.34	42.42%
112167	Thorium-232	1981	2.17	pci/g	-	2.17	39.39%
112255	Thorium-232	AFP-SS-03	2.13	pci/g	J	2.13	36.36%
112258	Thorium-232	AFP-SS-05	2.1	pci/g	J	2.1	33.33%
112145	Thorium-232	1980	2.05	pci/g	J	2.05	30.30%
112091	Thorium-232	1979	2	pci/g	-	2	27.27%
067172	Thorium-232	1723	1.93	pci/g	J	1.93	24.24%
067503	Thorium-232	1820	1.89	pci/g	-	1.89	21.21%
112251	Thorium-232	AFP-SD-05	1.81	pci/g	-	1.81	18.18%
112249	Thorium-232	AFP-SD-04	1.61	pci/g	-	1.61	15.15%
112248	Thorium-232	AFP-SD-03	1.23	pci/g	-	1.23	12.12%
112153	Thorium-232	1980	1.01	pci/g	J	1.01	9.09%
112241	Thorium-232	AFP-SD-02	0.931	pci/g	J	0.931	6.06%
067156	Thorium-232	1726	0.903	pci/g	-	0.903	3.03%
112246	Thorium-232	AFP-SD-06	0.883	pci/g	-	0.883	0.00%

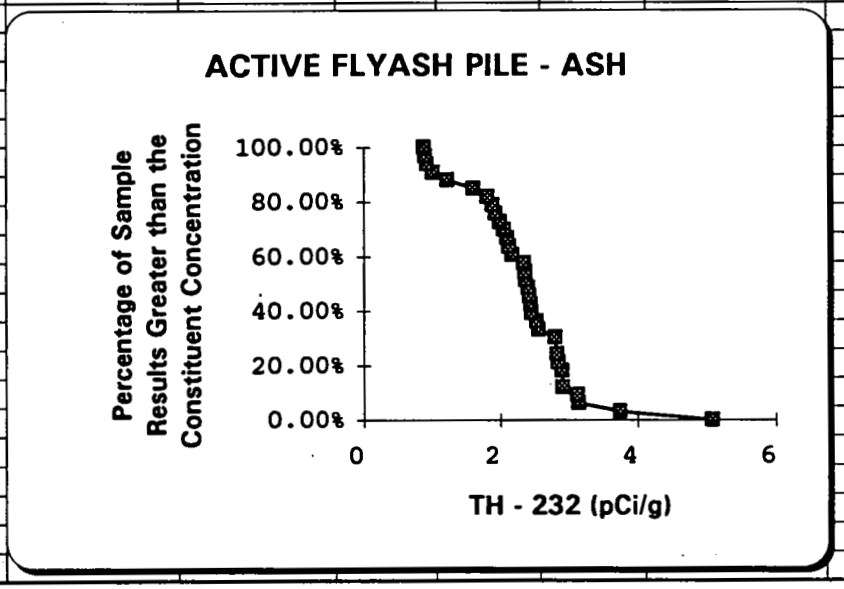


TABLE A.6-12
ACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067172	Uranium, Total	1723	31.3	mg/kg	J	31.3	100.00%
067146	Uranium, Total	1726	28.1	mg/kg	J	28.1	93.75%
067154	Uranium, Total	1726	28.1	mg/kg	J	28.1	93.75%
067153	Uranium, Total	1726	27.7	mg/kg	J	27.7	90.62%
112117	Uranium, Total	1979	22.1	mg/kg	-	22.1	87.50%
067505	Uranium, Total	1820	20.7	mg/kg	J	20.7	84.37%
067148	Uranium, Total	1726	18.5	mg/kg	J	18.5	81.25%
067192	Uranium, Total	1724	18.4	mg/kg	J	18.4	78.12%
067200	Uranium, Total	1724	16.4	mg/kg	J	16.4	75.00%
112167	Uranium, Total	1981	15.7	mg/kg	-	15.7	71.87%
112264	Uranium, Total	AFP-SD-01	14.8	mg/kg	-	14.8	68.75%
112259	Uranium, Total	AFP-SS-06	14.2	mg/kg	-	14.2	65.62%
112161	Uranium, Total	1981	14.1	mg/kg	-	14.1	62.50%
112241	Uranium, Total	AFP-SD-02	13.6	mg/kg	-	13.6	59.37%
112160	Uranium, Total	1981	13.3	mg/kg	J	13.3	56.25%
112252	Uranium, Total	AFP-SS-01	13.1	mg/kg	J	13.1	53.12%
112145	Uranium, Total	1980	13	mg/kg	-	13	50.00%
112130	Uranium, Total	1980	12.9	mg/kg	-	12.9	46.87%
112258	Uranium, Total	AFP-SS-05	12.7	mg/kg	-	12.7	43.75%
112251	Uranium, Total	AFP-SD-05	12.5	mg/kg	-	12.5	40.62%
067166	Uranium, Total	1723	11.7	mg/kg	J	11.7	37.50%
112246	Uranium, Total	AFP-SD-06	11.3	mg/kg	-	11.3	34.37%
112091	Uranium, Total	1979	10.78	mg/kg	-	10.78	31.25%
112248	Uranium, Total	AFP-SD-03	10.7	mg/kg	-	10.7	28.12%
112257	Uranium, Total	AFP-SS-04	10.4	mg/kg	-	10.4	25.00%
112249	Uranium, Total	AFP-SD-04	10.2	mg/kg	-	10.2	21.87%
112255	Uranium, Total	AFP-SS-03	10	mg/kg	-	10	18.75%
112092	Uranium, Total	1979	9.34	mg/kg	-	9.34	15.62%
067503	Uranium, Total	1820	9.08	mg/kg	J	9.08	12.50%
112254	Uranium, Total	AFP-SS-02	8.44	mg/kg	J	8.44	9.37%
112129	Uranium, Total	1980	7.86	mg/kg	-	7.86	6.25%
112153	Uranium, Total	1980	3.34	mg/kg	J	3.34	3.12%
067156	Uranium, Total	1726	3.08	mg/kg	J	3.08	0.00%

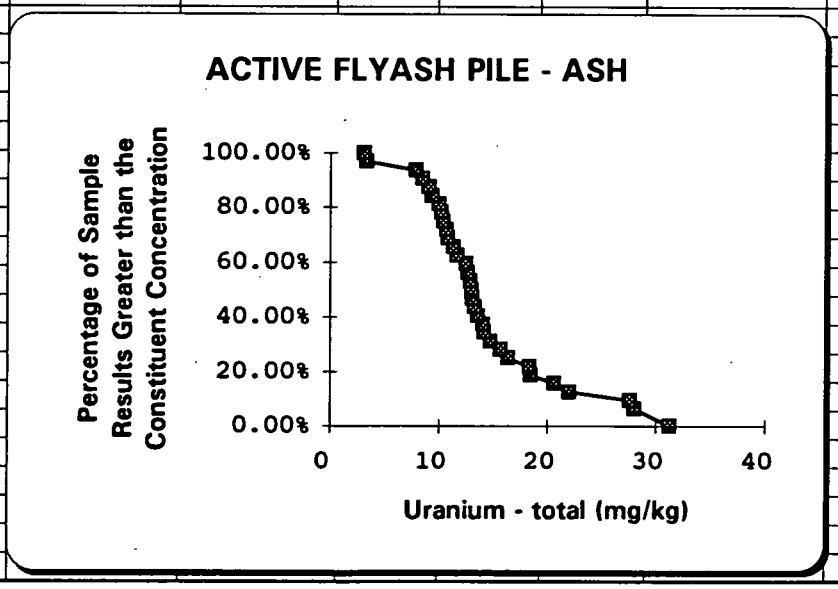


TABLE A.6-12
ACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067146	Uranium-234	1726	17.3	pci/g	-	17.3	100.00%
067153	Uranium-234	1726	12.3	pci/g	-	12.3	96.87%
067154	Uranium-234	1726	5.7	pci/g	J	5.7	93.75%
112117	Uranium-234	1979	5.02	pci/g	-	5.02	90.62%
067166	Uranium-234	1723	4.77	pci/g	J	4.77	87.50%
067192	Uranium-234	1724	4.75	pci/g	J	4.75	84.37%
112259	Uranium-234	AFP-SS-06	4.43	pci/g	-	4.43	81.25%
067172	Uranium-234	1723	4.34	pci/g	J	4.34	78.12%
112241	Uranium-234	AFP-SD-02	4.14	pci/g	-	4.14	75.00%
067200	Uranium-234	1724	4.01	pci/g	J	4.01	71.87%
067148	Uranium-234	1726	3.9	pci/g	J	3.9	68.75%
112258	Uranium-234	AFP-SS-05	3.7	pci/g	-	3.7	65.62%
067503	Uranium-234	1820	3.68	pci/g	J	3.68	62.50%
112130	Uranium-234	1980	3.58	pci/g	-	3.58	59.37%
112129	Uranium-234	1980	3.43	pci/g	-	3.43	53.12%
112161	Uranium-234	1981	3.43	pci/g	-	3.43	53.12%
112257	Uranium-234	AFP-SS-04	3.4	pci/g	-	3.4	50.00%
112264	Uranium-234	AFP-SD-01	3.39	pci/g	J	3.39	46.87%
112160	Uranium-234	1981	3.37	pci/g	-	3.37	43.75%
112251	Uranium-234	AFP-SD-05	3.25	pci/g	-	3.25	40.62%
112167	Uranium-234	1981	3.23	pci/g	-	3.23	37.50%
112255	Uranium-234	AFP-SS-03	3.21	pci/g	-	3.21	34.37%
112254	Uranium-234	AFP-SS-02	3.09	pci/g	-	3.09	31.25%
112092	Uranium-234	1979	3.08	pci/g	-	3.08	25.00%
067505	Uranium-234	1820	3.08	pci/g	J	3.08	25.00%
112252	Uranium-234	AFP-SS-01	3.06	pci/g	-	3.06	21.87%
112145	Uranium-234	1980	3.04	pci/g	-	3.04	18.75%
112091	Uranium-234	1979	2.94	pci/g	-	2.94	15.62%
112248	Uranium-234	AFP-SD-03	2.83	pci/g	-	2.83	12.50%
112246	Uranium-234	AFP-SD-06	2.77	pci/g	-	2.77	9.37%
112249	Uranium-234	AFP-SD-04	2.37	pci/g	-	2.37	6.25%
067156	Uranium-234	1726	0.932	pci/g	J	0.932	3.12%
112153	Uranium-234	1980	0.917	pci/g	-	0.917	0.00%

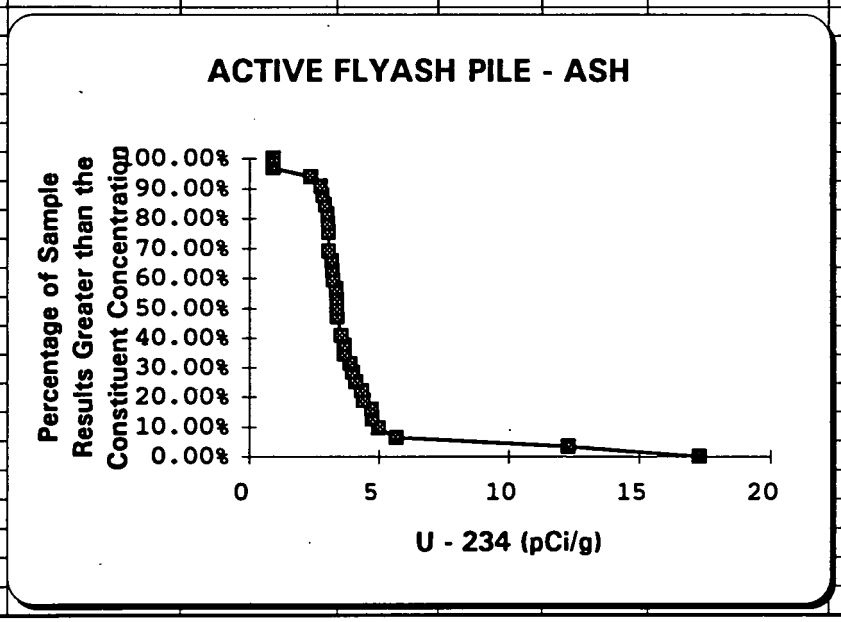


TABLE A.6-12
ACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067146	Uranium-235/236	1726	4.12	pci/g	J	4.12	100.00%
067153	Uranium-235/236	1726	3.42	pci/g	-	3.42	96.87%
112117	Uranium-235/236	1979	0.326	pci/g	J	0.326	93.75%
067148	Uranium-235/236	1726	0.6	pci/g	UJ	0.3	65.62%
067154	Uranium-235/236	1726	0.6	pci/g	UJ	0.3	65.62%
067156	Uranium-235/236	1726	0.6	pci/g	UJ	0.3	65.62%
067166	Uranium-235/236	1723	0.6	pci/g	UJ	0.3	65.62%
067172	Uranium-235/236	1723	0.6	pci/g	UJ	0.3	65.62%
067192	Uranium-235/236	1724	0.6	pci/g	UJ	0.3	65.62%
067200	Uranium-235/236	1724	0.6	pci/g	UJ	0.3	65.62%
067503	Uranium-235/236	1820	0.6	pci/g	UJ	0.3	65.62%
067505	Uranium-235/236	1820	0.6	pci/g	UJ	0.3	65.62%
112167	Uranium-235/236	1981	0.22	pci/g	-	0.22	62.50%
112264	Uranium-235/236	AFP-SD-01	0.199	pci/g	J	0.199	59.37%
112241	Uranium-235/236	AFP-SD-02	0.196	pci/g	J	0.196	56.25%
112130	Uranium-235/236	1980	0.19	pci/g	J	0.19	50.00%
112160	Uranium-235/236	1981	0.19	pci/g	-	0.19	50.00%
112145	Uranium-235/236	1980	0.179	pci/g	J	0.179	46.87%
112255	Uranium-235/236	AFP-SS-03	0.178	pci/g	J	0.178	43.75%
112249	Uranium-235/236	AFP-SD-04	0.173	pci/g	J	0.173	40.62%
112246	Uranium-235/236	AFP-SD-06	0.163	pci/g	J	0.163	37.50%
112254	Uranium-235/236	AFP-SS-02	0.16	pci/g	J	0.16	34.37%
112258	Uranium-235/236	AFP-SS-05	0.159	pci/g	J	0.159	31.25%
112251	Uranium-235/236	AFP-SD-05	0.152	pci/g	J	0.152	28.12%
112257	Uranium-235/236	AFP-SS-04	0.151	pci/g	J	0.151	25.00%
112248	Uranium-235/236	AFP-SD-03	0.13	pci/g	J	0.13	21.87%
112092	Uranium-235/236	1979	0.125	pci/g	J	0.125	18.75%
112161	Uranium-235/236	1981	0.12	pci/g	-	0.12	12.50%
112252	Uranium-235/236	AFP-SS-01	0.12	pci/g	J	0.12	12.50%
112259	Uranium-235/236	AFP-SS-06	0.106	pci/g	J	0.106	9.37%
112091	Uranium-235/236	1979	0.082	pci/g	J	0.082	6.25%
112153	Uranium-235/236	1980	0.0439	pci/g	J	0.0439	3.12%
112129	Uranium-235/236	1980	0.0835	pci/g	UJ	0.04175	0.00%

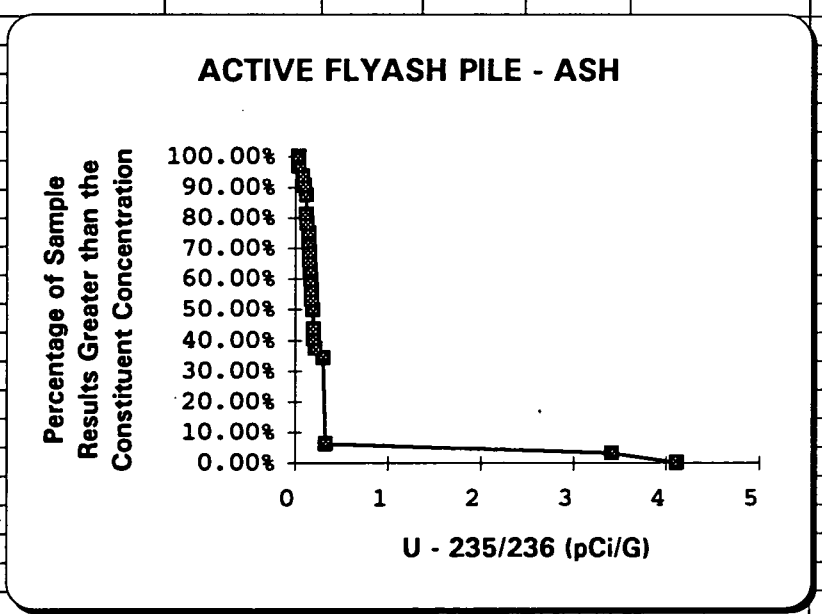


TABLE A.6-12
ACTIVE FLYASH PILE - ASH

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
067146	Uranium-238	1726	12.6	pci/g	-	12.6	100.00%
067153	Uranium-238	1726	9.67	pci/g	-	9.67	96.87%
067172	Uranium-238	1723	7.96	pci/g	J	7.96	93.75%
067154	Uranium-238	1726	7.93	pci/g	-	7.93	90.62%
067505	Uranium-238	1820	7.23	pci/g	-	7.23	87.50%
112117	Uranium-238	1979	7.12	pci/g	-	7.12	84.37%
067200	Uranium-238	1724	5.53	pci/g	J	5.53	81.25%
067192	Uranium-238	1724	4.96	pci/g	J	4.96	78.12%
067166	Uranium-238	1723	4.92	pci/g	J	4.92	75.00%
112241	Uranium-238	AFP-SD-02	4.39	pci/g	-	4.39	71.87%
112145	Uranium-238	1980	3.94	pci/g	-	3.94	68.75%
112259	Uranium-238	AFP-SS-06	3.9	pci/g	-	3.9	65.62%
067148	Uranium-238	1726	3.77	pci/g	-	3.77	62.50%
112160	Uranium-238	1981	3.67	pci/g	-	3.67	59.37%
112251	Uranium-238	AFP-SD-05	3.62	pci/g	-	3.62	56.25%
112167	Uranium-238	1981	3.58	pci/g	-	3.58	53.12%
112257	Uranium-238	AFP-SS-04	3.5	pci/g	-	3.5	50.00%
112129	Uranium-238	1980	3.47	pci/g	-	3.47	46.87%
112130	Uranium-238	1980	3.46	pci/g	-	3.46	43.75%
112264	Uranium-238	AFP-SD-01	3.42	pci/g	-	3.42	40.62%
112258	Uranium-238	AFP-SS-05	3.37	pci/g	-	3.37	37.50%
112252	Uranium-238	AFP-SS-01	3.36	pci/g	-	3.36	34.37%
112161	Uranium-238	1981	3.32	pci/g	-	3.32	31.25%
112092	Uranium-238	1979	3.27	pci/g	-	3.27	28.12%
067503	Uranium-238	1820	3.15	pci/g	-	3.15	25.00%
112248	Uranium-238	AFP-SD-03	3.11	pci/g	-	3.11	18.75%
112255	Uranium-238	AFP-SS-03	3.11	pci/g	-	3.11	18.75%
112249	Uranium-238	AFP-SD-04	3.05	pci/g	-	3.05	15.62%
112254	Uranium-238	AFP-SS-02	2.95	pci/g	-	2.95	12.50%
112246	Uranium-238	AFP-SD-06	2.9	pci/g	-	2.9	9.37%
112091	Uranium-238	1979	2.88	pci/g	-	2.88	6.25%
112153	Uranium-238	1980	1.19	pci/g	-	1.19	3.12%
067156	Uranium-238	1726	1.11	pci/g	-	1.11	0.00%

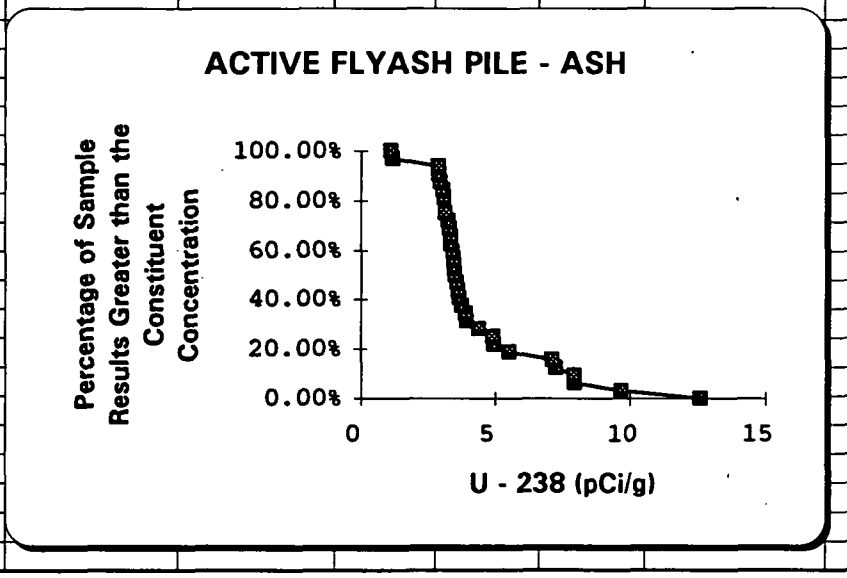


TABLE A.6-13
ACTIVE FLYASH PILE - IMPACTED TILL

Sample ID	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
112180	Arsenic	1981	18.7	mg/kg	J	18.7	100.00%
112123	Arsenic	1979	11	mg/kg	-	11	75.00%
112157	Arsenic	1980	10.6	mg/kg	-	10.6	50.00%
067218	Arsenic	1724	9.1	mg/kg	-	9.1	25.00%
067506	Arsenic	1820	4.6	mg/kg	-	4.6	0.00%

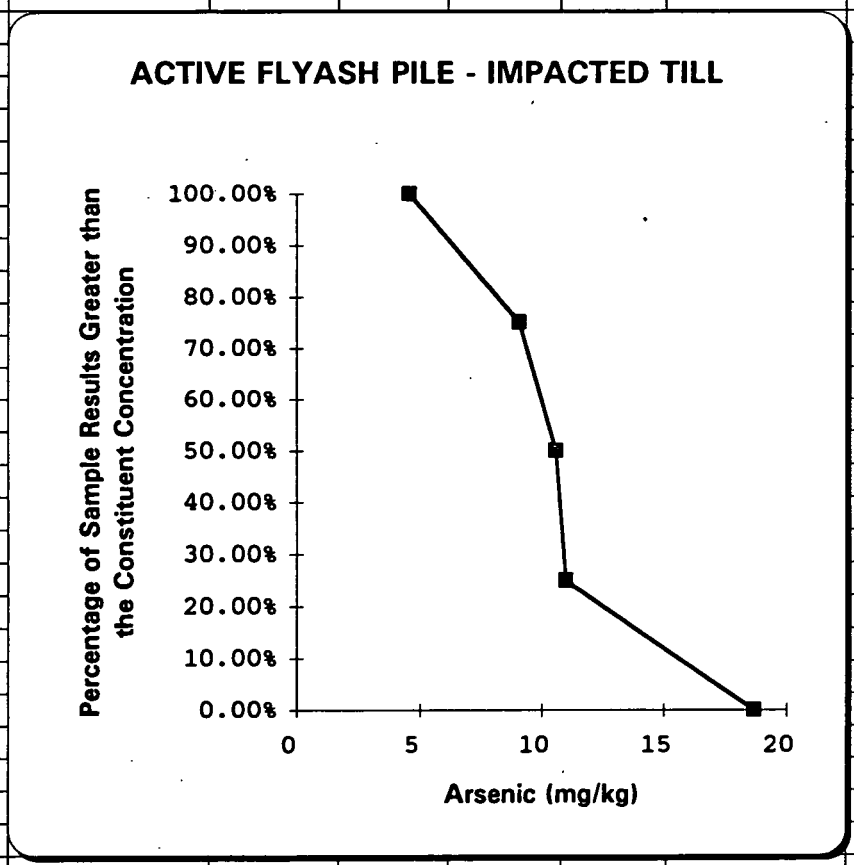


TABLE A.6-13
ACTIVE FLYASH PILE - IMPACTED TILL

Sample ID	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
112157	Beryllium	1980	1.4	mg/kg	-	1.4	100.00%
112180	Beryllium	1981	1.1	mg/kg	-	1.1	75.00%
067218	Beryllium	1724	0.74	mg/kg	-	0.74	50.00%
112123	Beryllium	1979	0.55	mg/kg	-	0.55	25.00%
067506	Beryllium	1820	0.47	mg/kg	-	0.47	0.00%

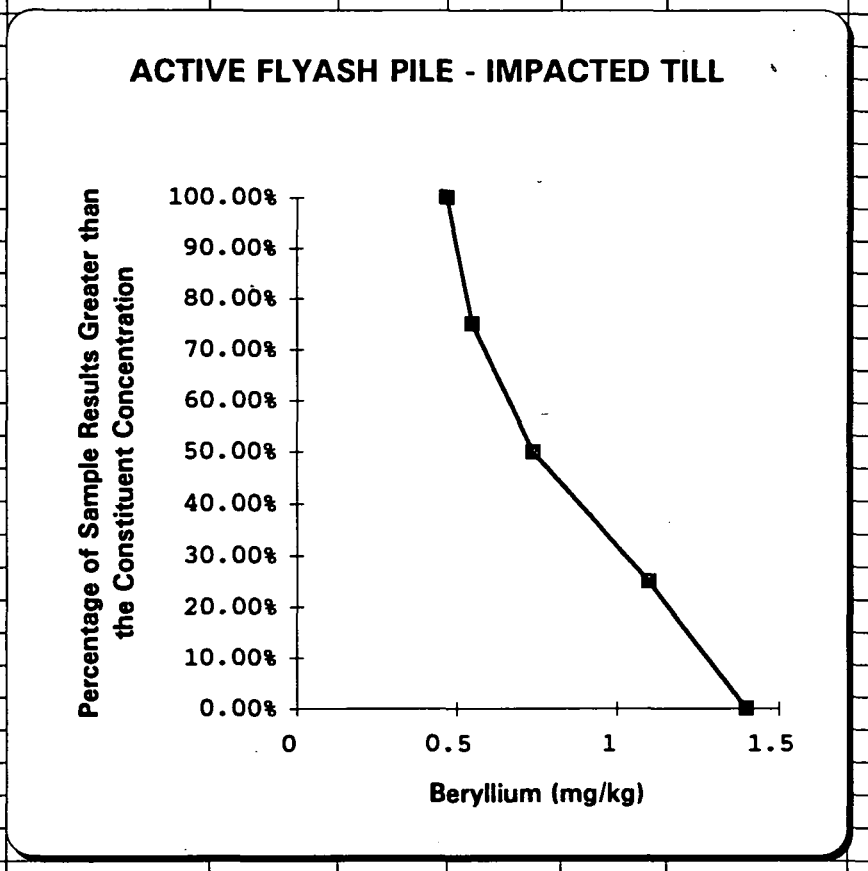


TABLE A.6-13
ACTIVE FLYASH PILE - IMPACTED TILL

Sample ID	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
67217	CS-137	1724	0.2	pci/g	UJ	0.1	50.00%
7220	CS-137	1048	0.2	pci/g	UJ	0.1	50.00%
7217	CS-137	1048	0.2	pci/g	UJ	0.1	50.00%
67506	CS-137	1820	0.2	pci/g	UJ	0.1	50.00%
112123	CS-137	1979	0.104	pci/g	UJ	0.052	33.30%
112157	CS-137	1980	0.084	pci/g	UJ	0.042	16.60%
112180	CS-137	1981	0.08	pci/g	UJ	0.04	.00%

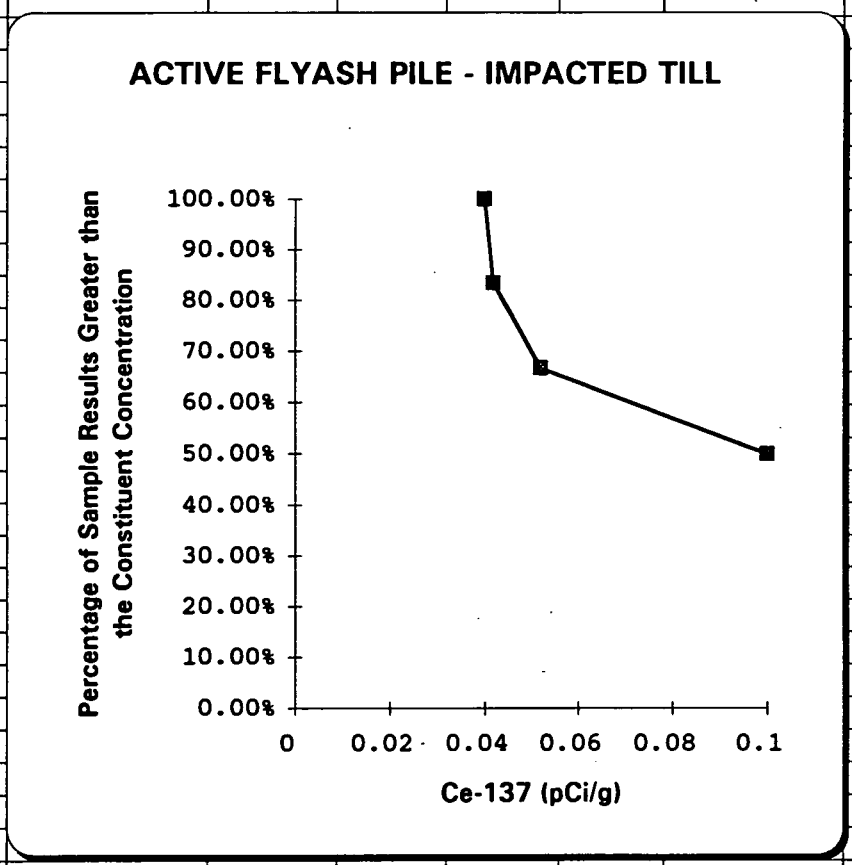


TABLE A.6-13
ACTIVE FLYASH PILE - IMPACTED TILL

Sample ID	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
112180	Neptunium-237	1981	0.4	pci/g	N	0.4	100.00%
007220	Neptunium-237	1048	0.6	pci/g	UJ	0.3	50.00%
007217	Neptunium-237	1048	0.6	pci/g	UJ	0.3	50.00%
112123	Neptunium-237	1979	0.146	pci/g	N	0.146	25.00%
112157	Neptunium-237	1980	0.052	pci/g	N	0.052	0.00%

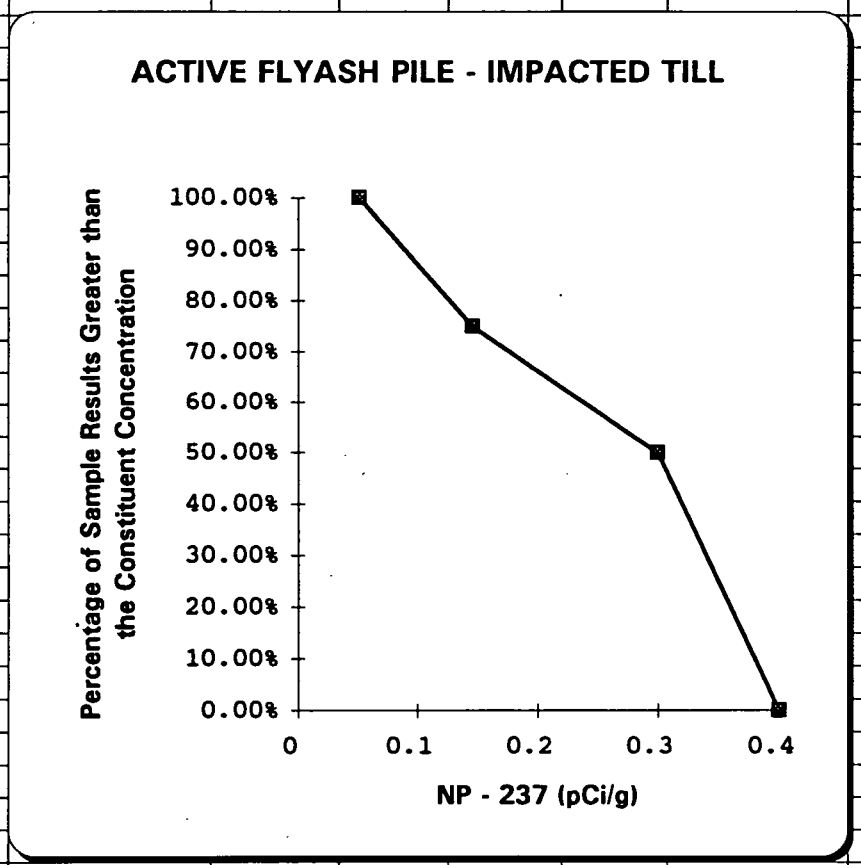


TABLE A.6-13
ACTIVE FLYASH PILE - IMPACTED TILL

Sample ID	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
112180	Radium-226	1981	1.73	pci/g	-	1.73	100.00%
067217	Radium-226	1724	1.13	pci/g	J	1.13	83.33%
112157	Radium-226	1980	1.07	pci/g	-	1.07	66.66%
112123	Radium-226	1979	0.959	pci/g	-	0.959	50.00%
007217	Radium-226	1048	0.9	pci/g	J	0.9	33.33%
007220	Radium-226	1048	0.5	pci/g	J	0.5	16.66%
067506	Radium-226	1820	0.47	pci/g	J	0.47	0.00%

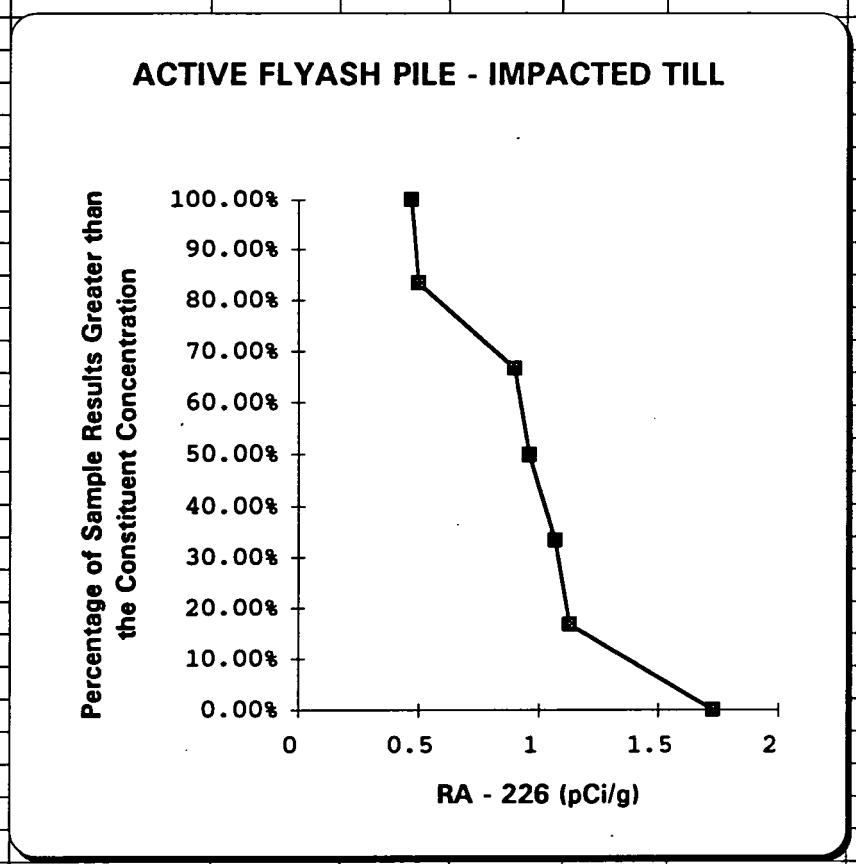


TABLE A.6-13
ACTIVE FLYASH PILE - IMPACTED TILL

Sample ID	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
112180	Radium-228	1981	1.33	pci/g	-	1.33	100.00%
007217	Radium-228	1048	1.2	pci/g	J	1.2	83.33%
112157	Radium-228	1980	1.06	pci/g	-	1.06	66.66%
067217	Radium-228	1724	0.82	pci/g	J	0.82	50.00%
112123	Radium-228	1979	0.8	pci/g	-	0.8	33.33%
067506	Radium-228	1820	0.74	pci/g	J	0.74	16.66%
007220	Radium-228	1048	0.6	pci/g	J	0.6	0.00%

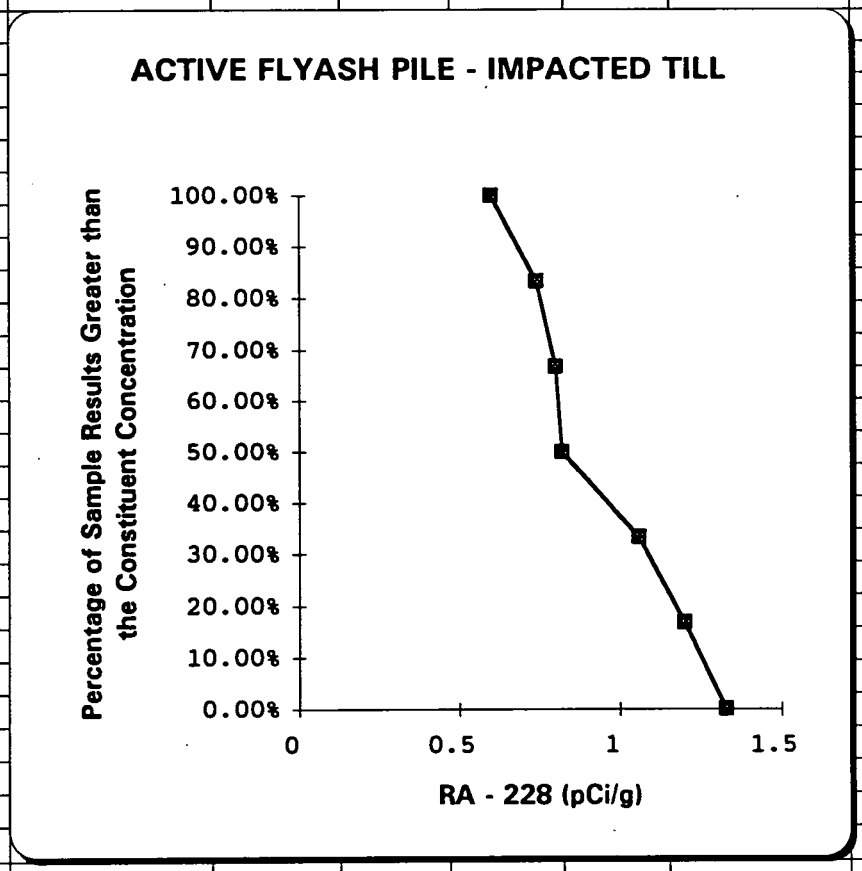


TABLE A.6-13
ACTIVE FLYASH PILE - IMPACTED TILL

Sample ID	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
67217	SR-90	1724	3.61	pci/g	-	3.61	100.00%
67506	SR-90	1820	0.6	pci/g	U	0.3	75.00%
112180	SR-90	1981	0.4	pci/g	UJ	0.2	50.00%
112123	SR-90	1979	0.178	pci/g	UJ	0.089	25.00%
112157	SR-90	1980	0.171	pci/g	UJ	0.0855	.00%

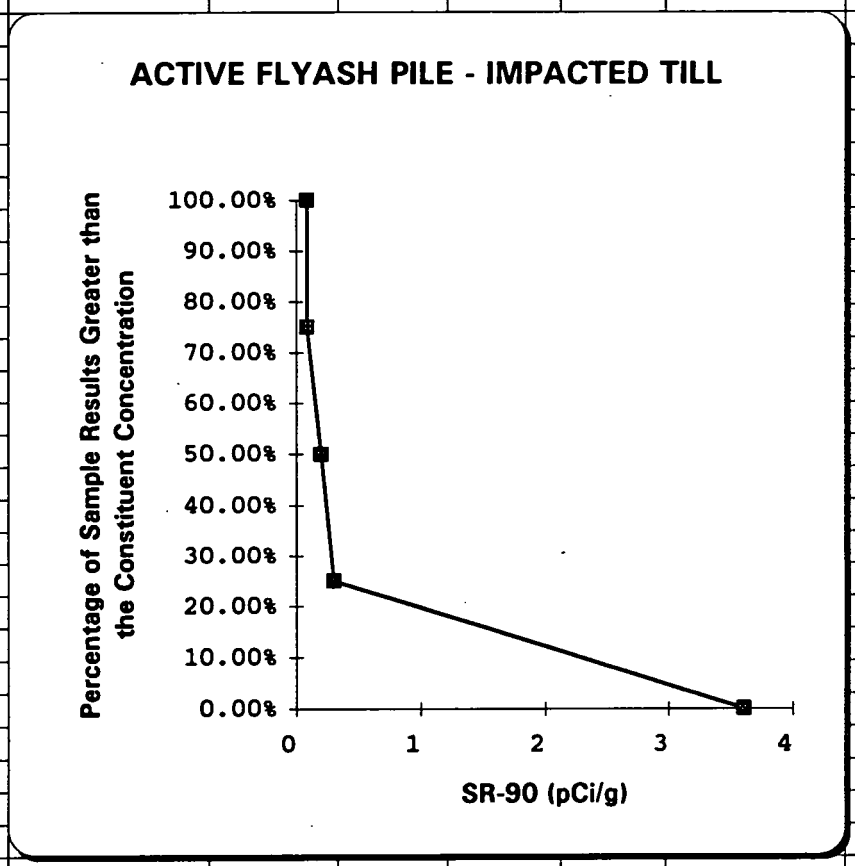


TABLE A.6-13
ACTIVE FLYASH PILE - IMPACTED TILL

Sample ID	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
067217	Technetium-99	1724	0.9	pci/g	U	0.45	100.00%
112123	Technetium-99	1979	0.523	pci/g	UJ	0.2615	66.66%
112180	Technetium-99	1981	0.4	pci/g	UJ	0.2	33.33%
112157	Technetium-99	1980	0.338	pci/g	UJ	0.169	0.00%

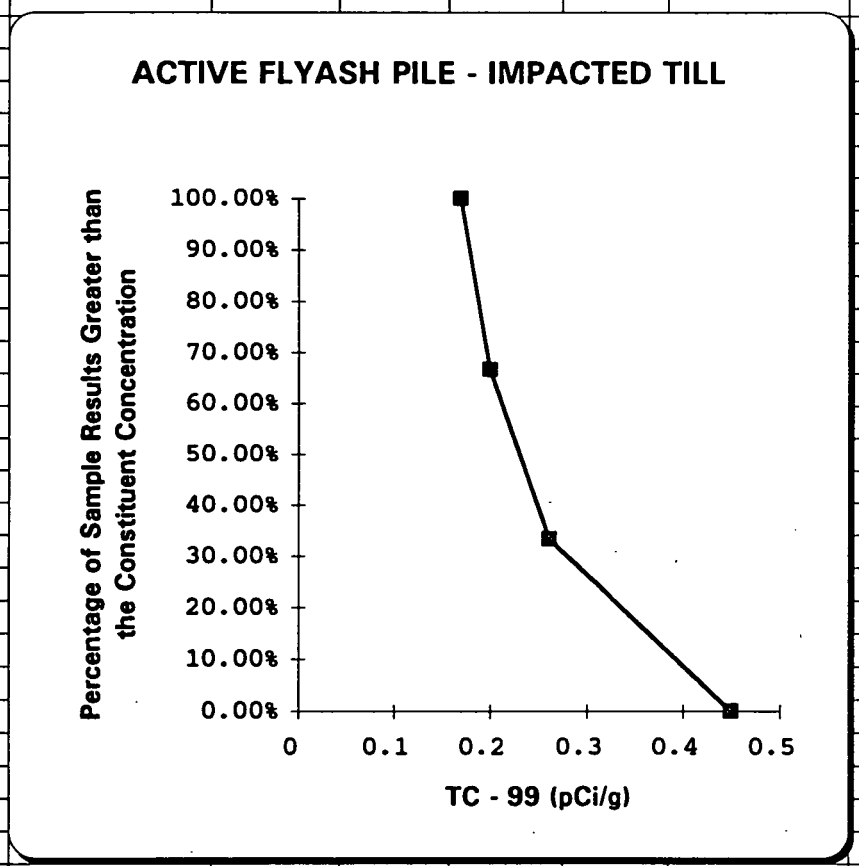


TABLE A.6-13
ACTIVE FLYASH PILE - IMPACTED TILL

Sample ID	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
007217	Thorium-228	1048	1.6	pci/g	-	1.6	100.00%
112180	Thorium-228	1981	1.37	pci/g	-	1.37	83.33%
007220	Thorium-228	1048	1.2	pci/g	-	1.2	66.66%
067217	Thorium-228	1724	1.16	pci/g	J	1.16	50.00%
112123	Thorium-228	1979	0.869	pci/g	-	0.869	33.33%
112157	Thorium-228	1980	0.853	pci/g	-	0.853	16.66%
067506	Thorium-228	1820	0.813	pci/g	J	0.813	0.00%

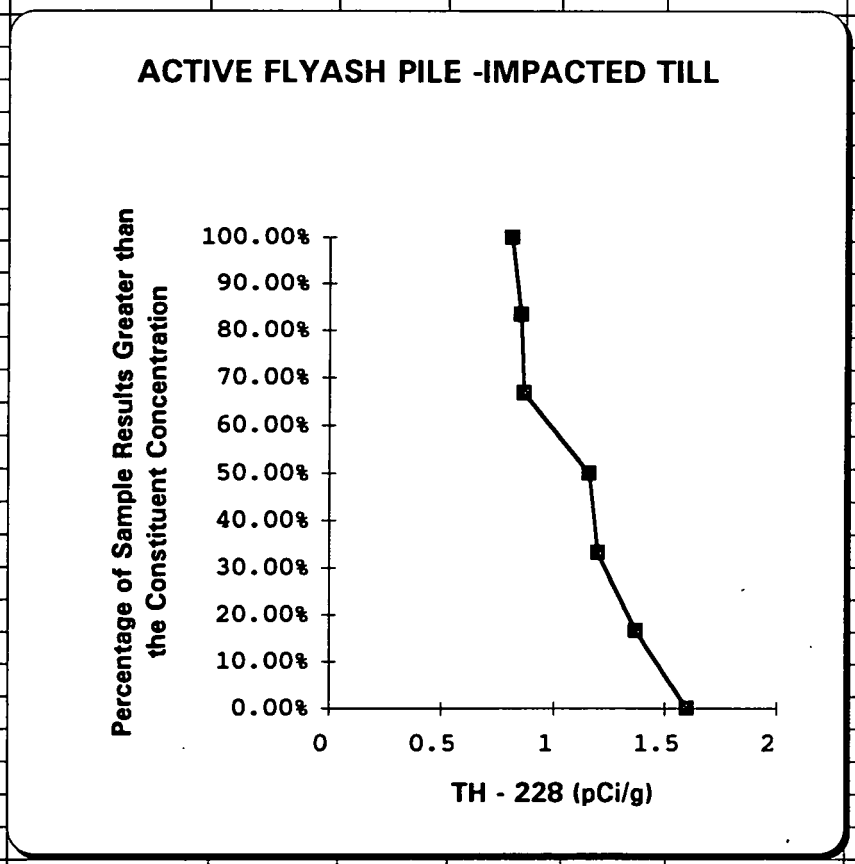


TABLE A.6-13
ACTIVE FLYASH PILE - IMPACTED TILL

Sample ID	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
112180	Thorium-230	1981	3.6	pci/g	-	3.6	100.00%
007220	Thorium-230	1048	2.2	pci/g	-	2.2	83.33%
007217	Thorium-230	1048	1.9	pci/g	-	1.9	66.66%
067217	Thorium-230	1724	1.33	pci/g	J	1.33	50.00%
067506	Thorium-230	1820	1.12	pci/g	J	1.12	33.33%
112157	Thorium-230	1980	1.11	pci/g	-	1.11	16.66%
112123	Thorium-230	1979	1.01	pci/g	-	1.01	0.00%

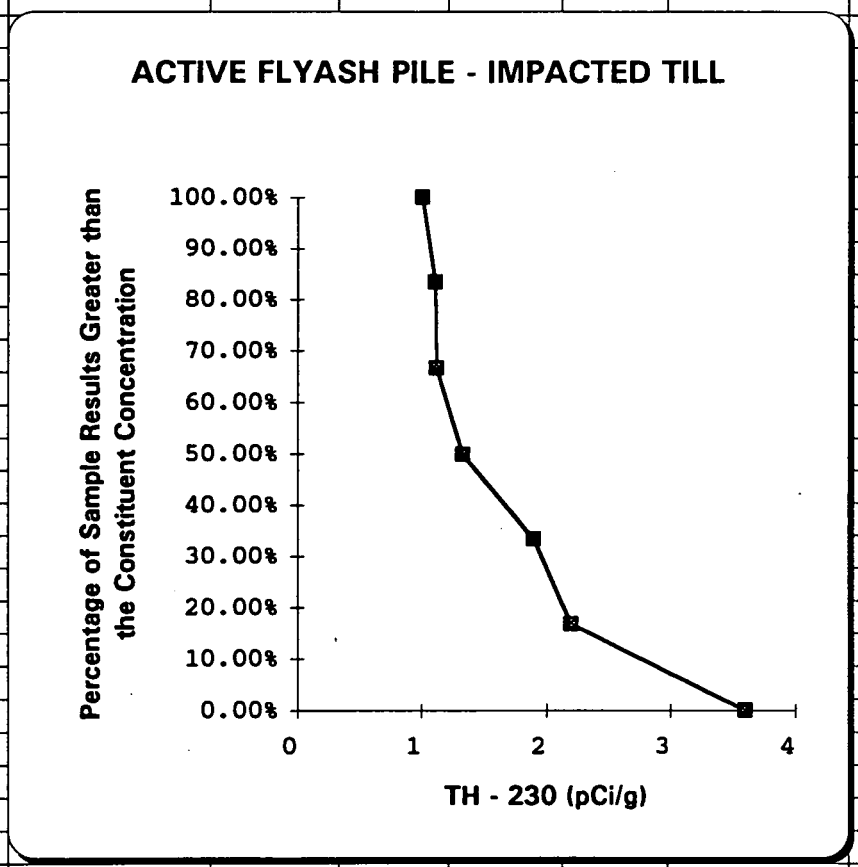


TABLE A.6-13
ACTIVE FLYASH PILE - IMPACTED TILL

Sample ID	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
112180	Thorium-232	1981	1.35	pci/g	-	1.35	100.00%
007220	Thorium-232	1048	1	pci/g	-	1	83.33%
007217	Thorium-232	1048	0.9	pci/g	-	0.9	66.66%
112157	Thorium-232	1980	0.892	pci/g	-	0.892	50.00%
112123	Thorium-232	1979	0.685	pci/g	-	0.685	33.33%
067217	Thorium-232	1724	0.52	pci/g	-	0.52	16.66%
067506	Thorium-232	1820	0.6	pci/g	U	0.3	0.00%

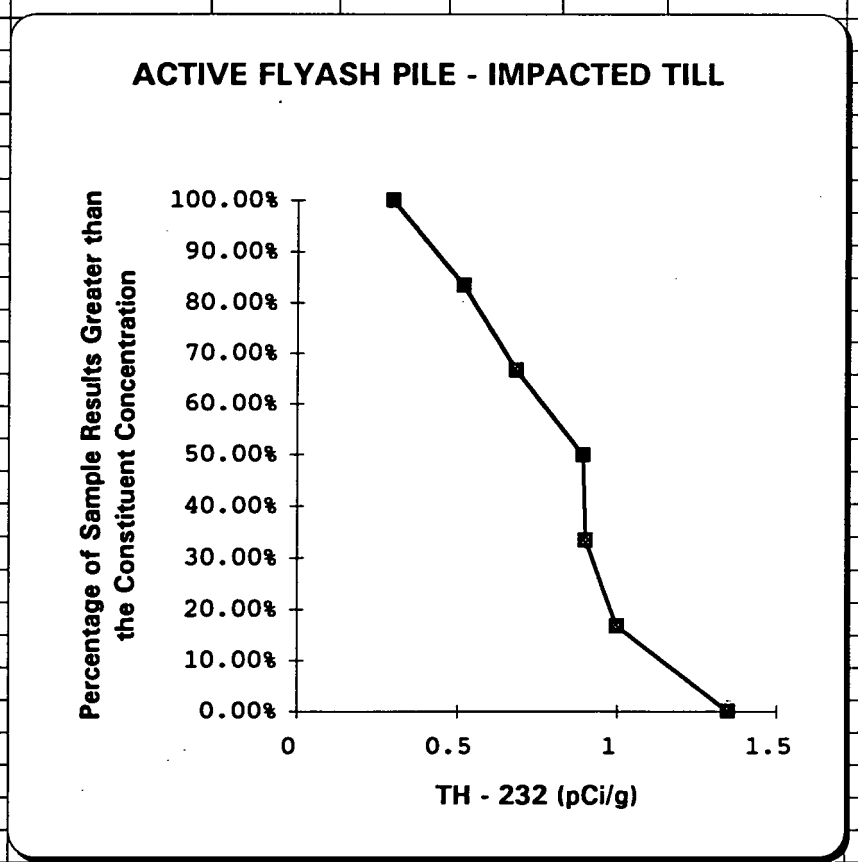


TABLE A.6-13
ACTIVE FLYASH PILE - IMPACTED TILL

Sample ID	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
067217	Uranium, Total	1724	7.17	mg/kg	J	7.17	100.00%
112157	Uranium, Total	1980	4.534	mg/kg	-	4.534	75.00%
112123	Uranium, Total	1979	4.49	mg/kg	-	4.49	50.00%
112180	Uranium, Total	1981	4.15	mg/kg	-	4.15	25.00%
067506	Uranium, Total	1820	3.9	mg/kg	UJ	1.95	0.00%

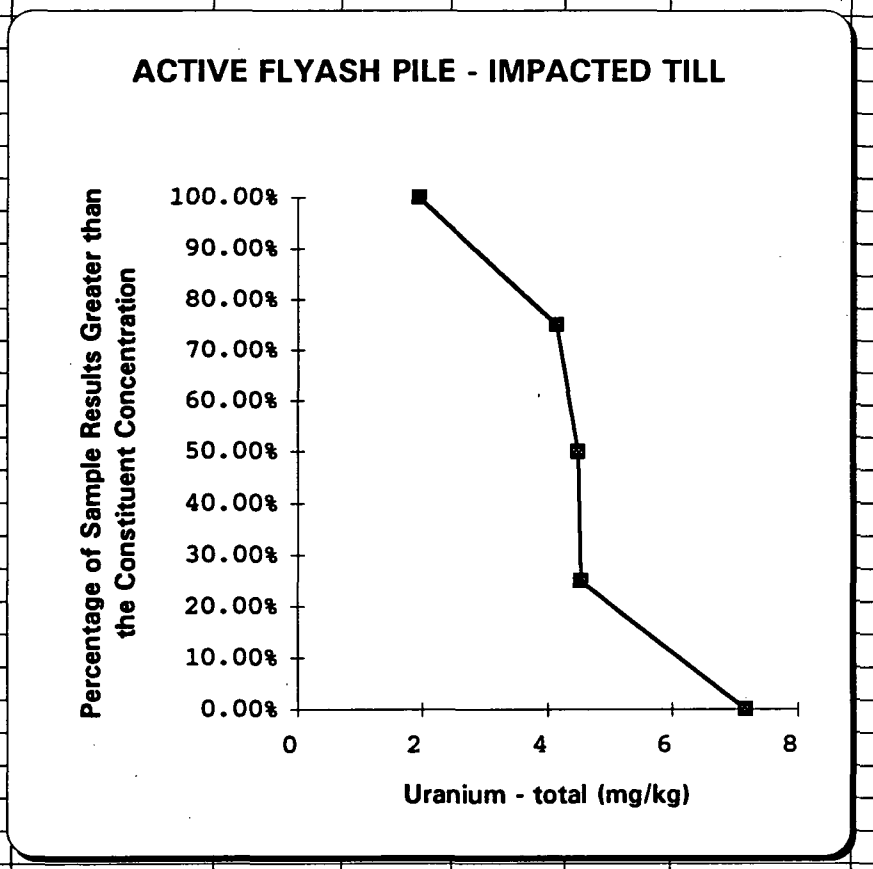


TABLE A.6-13
ACTIVE FLYASH PILE - IMPACTED TILL

Sample ID	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
007220	Uranium-234	1048	1.4	pci/g	J	1.4	100.00%
067217	Uranium-234	1724	1.27	pci/g	J	1.27	83.33%
112180	Uranium-234	1981	1.01	pci/g	-	1.01	66.66%
007217	Uranium-234	1048	1	pci/g	J	1	50.00%
112157	Uranium-234	1980	0.952	pci/g	-	0.952	33.33%
067506	Uranium-234	1820	0.92	pci/g	J	0.92	16.66%
112123	Uranium-234	1979	0.772	pci/g	-	0.772	0.00%

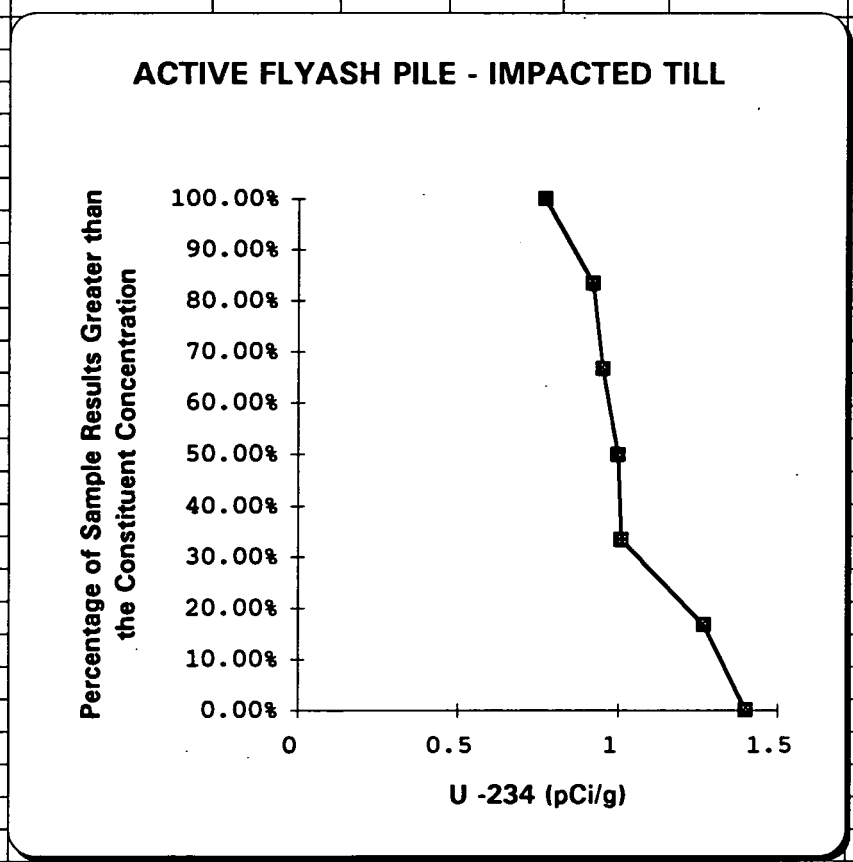


TABLE A.6-13
ACTIVE FLYASH PILE - IMPACTED TILL

Sample ID	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
067217	Uranium-235/236	1724	0.6	pci/g	UJ	0.3	50.00%
007220	Uranium-235/236	1048	0.6	pci/g	UJ	0.3	50.00%
007217	Uranium-235/236	1048	0.6	pci/g	UJ	0.3	50.00%
067506	Uranium-235/236	1820	0.6	pci/g	UJ	0.3	50.00%
112157	Uranium-235/236	1980	0.069	pci/g	J	0.069	33.33%
112180	Uranium-235/236	1981	0.05	pci/g	-	0.05	16.66%
112123	Uranium-235/236	1979	0.043	pci/g	J	0.043	0.00%

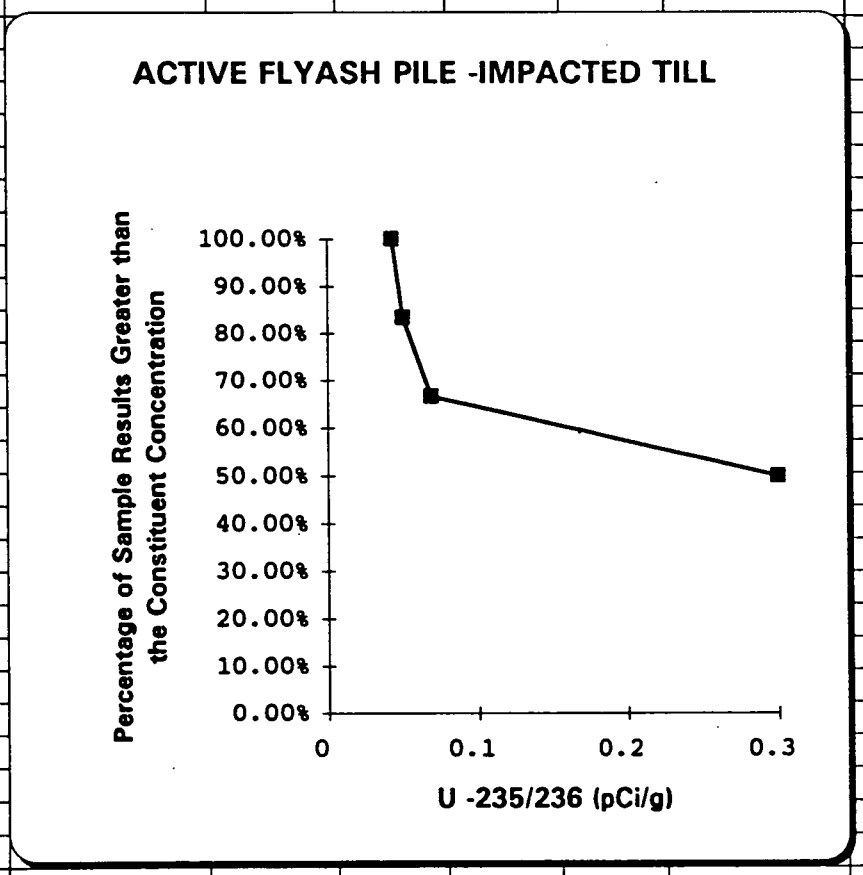


TABLE A.6-13
ACTIVE FLYASH PILE - IMPACTED TILL

Sample ID	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
007220	Uranium-238	1048	2.8	pci/g	J	2.8	100.00%
007217	Uranium-238	1048	2.4	pci/g	J	2.4	83.33%
067217	Uranium-238	1724	2.04	pci/g	-	2.04	66.66%
112157	Uranium-238	1980	1.21	pci/g	-	1.21	50.00%
112180	Uranium-238	1981	1.2	pci/g	-	1.2	33.33%
067506	Uranium-238	1820	0.97	pci/g	-	0.97	16.66%
112123	Uranium-238	1979	0.93	pci/g	-	0.93	0.00%

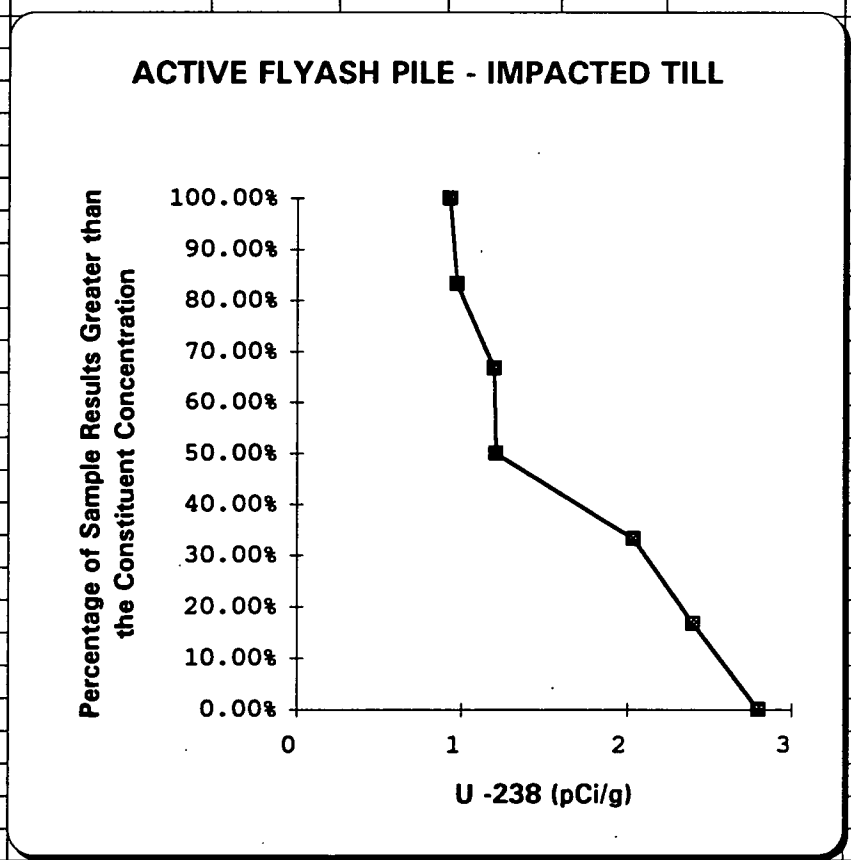


TABLE A.6-14
ACTIVE FLYASH PILE - OTHER TILL

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Results
112181	Arsenic	1981	14	mg/kg	J	14
067184	Arsenic	1723	8.4	mg/kg	-	8.4
112126	Arsenic	1979	4.1	mg/kg	-	4.1
112181	Beryllium	1981	1.1	mg/kg	-	1.1
067184	Beryllium	1723	0.75	mg/kg	-	0.75
112126	Beryllium	1979	0.64	mg/kg	-	0.64
112126	Cesium-137	1979	0.0623	pci/g	UJ	0.03115
112181	Cesium-137	1981	0.1	pci/g	UJ	0.05
67182	Cesium-137	1723	0.2	pci/g	UJ	0.1
7207	Cesium-137	1045	0.2	pci/g	UJ	0.1
067182	Neptunium-237	1723	0.6	pci/g	U	0.3
007207	Neptunium-237	1045	0.6	pci/g	UJ	0.3
112126	Neptunium-237	1979	0.19	pci/g	N	0.19
112181	Neptunium-237	1981	0.12	pci/g	N	0.12
112181	Radium-226	1981	1.14	pci/g	-	1.14
112126	Radium-226	1979	0.912	pci/g	-	0.912
067182	Radium-226	1723	0.76	pci/g	J	0.76
007207	Radium-226	1045	0.4	pci/g	UJ	0.2
112181	Radium-228	1981	0.9	pci/g	-	0.9
112126	Radium-228	1979	0.748	pci/g	-	0.748
067182	Radium-228	1723	0.56	pci/g	J	0.56
112126	Strontium-90	1979	0.197	pci/g	UJ	0.0985
112181	Strontium-90	1981	0.21	pci/g	UJ	0.105
67182	Strontium-90	1723	0.7	pci/g	J	0.7
7207	Strontium-90	1045	1.2	pci/g	-	1.2
007207	Technetium-99	1045	2.8	pci/g	NV	2.8
067182	Technetium-99	1723	0.9	pci/g	U	0.45
112126	Technetium-99	1979	0.498	pci/g	UJ	0.249
112181	Technetium-99	1981	0.37	pci/g	UJ	0.185
067182	Thorium-228	1723	1.76	pci/g	J	1.76
007207	Thorium-228	1045	1.1	pci/g	-	1.1
112181	Thorium-228	1981	0.87	pci/g	-	0.87
112126	Thorium-228	1979	0.628	pci/g	-	0.628
112181	Thorium-230	1981	2.67	pci/g	-	2.67
007207	Thorium-230	1045	1.8	pci/g	-	1.8
112126	Thorium-230	1979	1.04	pci/g	-	1.04
067182	Thorium-230	1723	0.85	pci/g	J	0.85
007207	Thorium-232	1045	1.2	pci/g	-	1.2
112181	Thorium-232	1981	0.72	pci/g	-	0.72
112126	Thorium-232	1979	0.677	pci/g	-	0.677
067182	Thorium-232	1723	0.61	pci/g	J	0.61
112126	Uranium, Total	1979	4.27	mg/kg	-	4.27
112181	Uranium, Total	1981	3.3	mg/kg	-	3.3
067182	Uranium, Total	1723	2.72	mg/kg	J	2.72
007207	Uranium-234	1045	1	pci/g	-	1
067182	Uranium-234	1723	0.96	pci/g	J	0.96
112126	Uranium-234	1979	0.956	pci/g	-	0.956
112181	Uranium-234	1981	0.87	pci/g	-	0.87
067182	Uranium-235/236	1723	0.6	pci/g	UJ	0.3
007207	Uranium-235/236	1045	0.6	pci/g	U	0.3
112126	Uranium-235/236	1979	0.034	pci/g	J	0.034
112181	Uranium-235/236	1981	0.03	pci/g	J	0.03
067182	Uranium-238	1723	1.05	pci/g	J	1.05
007207	Uranium-238	1045	0.9	pci/g	-	0.9
112126	Uranium-238	1979	0.875	pci/g	-	0.875
112181	Uranium-238	1981	0.8	pci/g	-	0.8

TABLE A.6-15
ACTIVE FLYASH PILE - GMA (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percentile
098017	Uranium, Total	1406	8	mg/kg	-	8	100.00%
098010	Uranium, Total	1406	7	mg/kg	-	7	57.14%
098014	Uranium, Total	1406	7	mg/kg	-	7	57.14%
098024	Uranium, Total	1406	7	mg/kg	-	7	57.14%
098011	Uranium, Total	1406	4	mg/kg	-	4	28.57%
098028	Uranium, Total	1406	4	mg/kg	-	4	28.57%
032609	Uranium, Total	3045	2.85	mg/kg	J	2.85	14.28%
008948	Uranium, Total	2045	2	mg/kg	J	2	0.00%

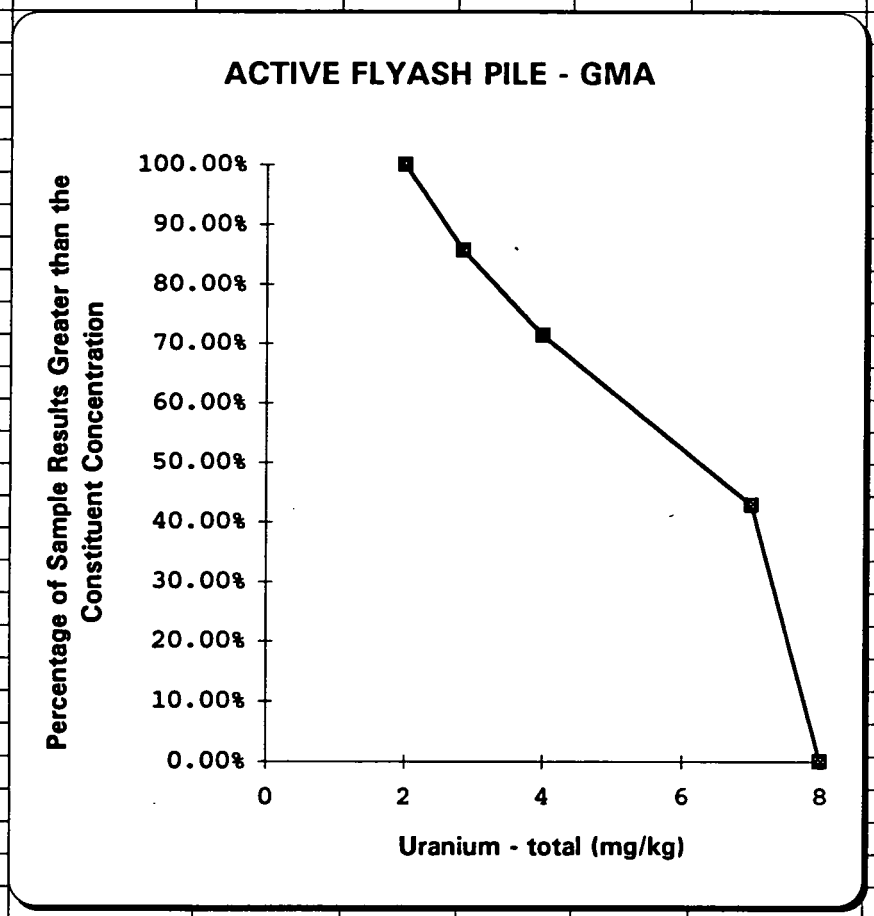


TABLE A.6-15
ACTIVE FLYASH PILE - GMA (inside battery limits)

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
32609	Cesium-137	3045	0.2	pci/g	UJ	0.1
8948	Cesium-137	2045	0.2	pci/g	UJ	0.1
032609	Neptunium-237	3045	0.6	pci/g	U	0.3
020498	Neptunium-237	2048	0.6	pci/g	U	0.3
008948	Neptunium-237	2045	0.6	pci/g	U	0.3
032609	Radium-226	3045	0.594	pci/g	J	0.594
008948	Radium-226	2045	0.4	pci/g	J	0.4
032609	Radium-228	3045	0.537	pci/g	J	0.537
008948	Radium-228	2045	0.5	pci/g	UJ	0.25
20498	Strontium-90	2048	0.5	pci/g	U	0.25
8948	Strontium-90	2045	0.5	pci/g	-	0.5
032609	Technetium-99	3045	1	pci/g	U	0.5
020498	Technetium-99	2048	0.9	pci/g	U	0.45
008948	Technetium-99	2045	0.9	pci/g	U	0.45
032609	Thorium-228	3045	1.19	pci/g	J	1.19
020498	Thorium-228	2048	0.6	pci/g	U	0.3
008948	Thorium-228	2045	0.6	pci/g	UJ	0.3
032609	Thorium-230	3045	1.42	pci/g	J	1.42
020498	Thorium-230	2048	0.7	pci/g	-	0.7
008948	Thorium-230	2045	0.7	pci/g	J	0.7
032609	Thorium-232	3045	0.965	pci/g	J	0.965
008948	Thorium-232	2045	0.6	pci/g	J	0.6
020498	Thorium-232	2048	0.6	pci/g	U	0.3
032609	Uranium-234	3045	0.921	pci/g	J	0.921
020498	Uranium-234	2048	0.6	pci/g	U	0.3
008948	Uranium-234	2045	0.6	pci/g	U	0.3
032609	Uranium-235/236	3045	0.6	pci/g	UJ	0.3
020498	Uranium-235/236	2048	0.6	pci/g	U	0.3
008948	Uranium-235/236	2045	0.6	pci/g	U	0.3
032609	Uranium-238	3045	0.754	pci/g	J	0.754
020498	Uranium-238	2048	0.6	pci/g	U	0.3
008948	Uranium-238	2045	0.6	pci/g	U	0.3

TABLE A.6-16
ACTIVE FLYASH PILE - SEDIMENT

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result	Percent
009045	U-TOTAL	ASIT-005	51.8	mg/kg	J	51.8	100.00%
009044	U-TOTAL	ASIT-004	38.9	mg/kg	J	38.9	75.00%
009046	U-TOTAL	ASIT-006	22.9	mg/kg	J	22.9	50.00%
112246	U-TOTAL	AFP-SD-06	11.3	mg/kg	-	11.3	25.00%
009047	U-TOTAL	ASIT-007	4.53	mg/kg	J	4.53	0.00%

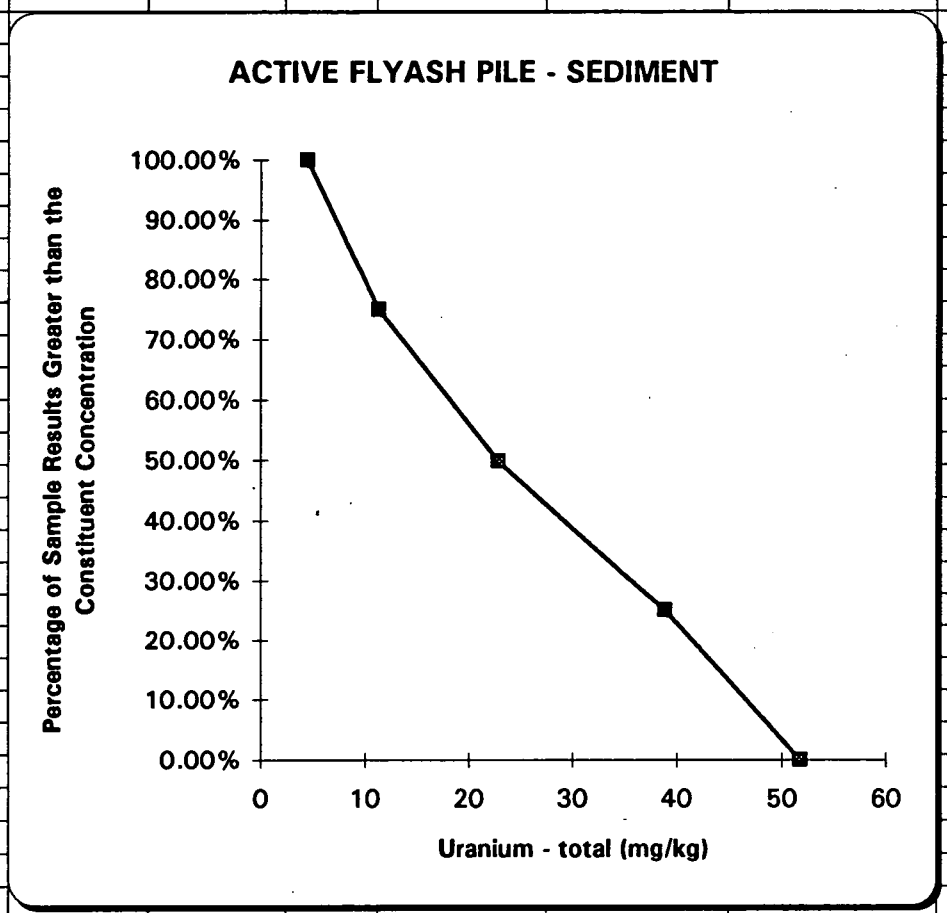


TABLE A.6-16
ACTIVE FLYASH PILE - SEDIMENT

Sample	Parameter	Location	Result	Units	Qualifier	Adjusted Result
112246	Arsenic	AFP-SD-06	10.9	mg/kg	-	10.9
112246	Beryllium	AFP-SD-06	1.4	mg/kg	-	1.4
112246	CS-137	AFP-SD-06	0.086	pci/g	J	0.086
112246	NP-237	AFP-SD-06	0.038	pci/g	N	0.038
112246	RA-226	AFP-SD-06	1.32	pci/g	-	1.32
009044	RA-226	ASIT-004	1.24	pci/g	J	1.24
009047	RA-226	ASIT-007	0.637	pci/g	J	0.637
009044	RA-228	ASIT-004	1.08	pci/g	J	1.08
112246	RA-228	AFP-SD-06	0.908	pci/g	-	0.908
009047	RA-228	ASIT-007	0.703	pci/g	J	0.703
112246	SR-90	AFP-SD-06	0.141	pci/g	UJ	0.0705
112246	TC-99	AFP-SD-06	0.299	pci/g	UJ	0.1495
112246	TH-228	AFP-SD-06	0.824	pci/g	-	0.824
112246	TH-230	AFP-SD-06	1.47	pci/g	-	1.47
112246	TH-232	AFP-SD-06	0.883	pci/g	-	0.883
112246	U-234	AFP-SD-06	2.77	pci/g	-	2.77
112246	U-235/236	AFP-SD-06	0.163	pci/g	J	0.163
112246	U-238	AFP-SD-06	2.9	pci/g	-	2.9

TABLE A.6-17
ACTIVE FLYASH PILE - PGW (Inside Battery Limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
003647	Arsenic	FILTERED	10/23/88	1048	0.002	mg/l	U
003368	Arsenic	FILTERED	07/24/88	1048	0.01	mg/l	U
110900	Arsenic	FILTERED	04/28/93	1048	0.001	mg/l	U
003132	Arsenic	FILTERED	04/27/88	1048	0.2	mg/l	U
112000	Arsenic	FILTERED	04/29/93	1045	0.0034	mg/l	-
112000	Arsenic	UNFILTERED	04/29/93	1045	0.0034	mg/l	-
003856	Arsenic	*F	1/22/89	1048	0.002	mg/l	U
110900	Beryllium	FILTERED	04/28/93	1048	0.0036	mg/l	U
112000	Beryllium	FILTERED	04/29/93	1045	0.0012	mg/l	U
112000	Beryllium	UNFILTERED	04/29/93	1045	0.0017	mg/l	U
112000	Cesium-137	FILTERED	4/29/93	1045	17.7	pci/l	UJ
110900	Cesium-137	UNFILTERED	4/28/93	1048	18	pci/l	UJ
112000	Cesium-137	UNFILTERED	4/29/93	1045	15.7	pci/l	UJ
003647	Neptunium-237	UNFILTERED	10/23/88	1048	1	pci/l	UJ
003368	Neptunium-237	UNFILTERED	07/24/88	1048	1	pci/l	UJ
110900	Neptunium-237	UNFILTERED	04/28/93	1048	0.184	pci/l	U
112000	Neptunium-237	FILTERED	04/29/93	1045	0.49	pci/l	N
112000	Neptunium-237	UNFILTERED	04/29/93	1045	0.48	pci/l	N
003856	Neptunium-237	*U	1/22/89	1048	1	pci/l	U
003647	Radium-226	UNFILTERED	10/23/88	1048	1	pci/l	U
003368	Radium-226	UNFILTERED	07/24/88	1048	1	pci/l	UJ
110900	Radium-226	UNFILTERED	04/28/93	1048	0.141	pci/l	UJ
112000	Radium-226	FILTERED	04/29/93	1045	0.25	pci/l	J
112000	Radium-226	UNFILTERED	04/29/93	1045	0.16	pci/l	UJ
003856	Radium-226	*U	1/22/89	1048	1	pci/l	U
003647	Radium-228	UNFILTERED	10/23/88	1048	3	pci/l	U
003368	Radium-228	UNFILTERED	07/24/88	1048	3	pci/l	UJ
110900	Radium-228	UNFILTERED	04/28/93	1048	0.879	pci/l	UJ
112000	Radium-228	FILTERED	04/29/93	1045	1.48	pci/l	UJ
112000	Radium-228	UNFILTERED	04/29/93	1045	1.46	pci/l	UJ
003856	Radium-228	*U	1/22/89	1048	3	pci/l	UJ
003856	Strontium-90	*U	1/22/89	1048	5	pci/l	U
3368	Strontium-90	*U	7/24/88	1048	5	pci/l	U
3647	Strontium-90	*U	10/23/88	1048	5	pci/l	U
112000	Strontium-90	FILTERED	4/29/93	1045	0.82	pci/l	UJ
110900	Strontium-90	UNFILTERED	4/28/93	1048	1.19	pci/l	J
112000	Strontium-90	UNFILTERED	4/29/93	1045	0.818	pci/l	UJ
003647	Technetium-99	UNFILTERED	10/23/88	1048	30	pci/l	U
003368	Technetium-99	UNFILTERED	07/24/88	1048	30	pci/l	U
110900	Technetium-99	UNFILTERED	04/28/93	1048	9.7	pci/l	UJ
112000	Technetium-99	FILTERED	04/29/93	1045	8.3	pci/l	UJ
112000	Technetium-99	UNFILTERED	04/29/93	1045	9	pci/l	UJ
003856	Technetium-99	*U	1/22/89	1048	30	pci/l	U
066828	Technetium-99	*U	12/13/89	1045	30	pci/l	U
066831	Technetium-99	*U	12/16/89	1048	30	pci/l	U
003647	Thorium-228	UNFILTERED	10/23/88	1048	1	pci/l	UJ
003368	Thorium-228	UNFILTERED	07/24/88	1048	1	pci/l	UJ
110900	Thorium-228	UNFILTERED	04/28/93	1048	0.115	pci/l	UJ
112000	Thorium-228	FILTERED	04/29/93	1045	0.048	pci/l	J
112000	Thorium-228	UNFILTERED	04/29/93	1045	0.13	pci/l	J
003856	Thorium-228	*U	1/22/89	1048	1	pci/l	U

TABLE A.6-17
ACTIVE FLYASH PILE - PGW (Inside Battery Limits)

Sample	Parameter	Filtered	Samp.Date	Boring	Result	Units	Qualifier
066828	Thorium-228	*U	12/13/89	1045	1	pci/l	U
066831	Thorium-228	*U	12/16/89	1048	2.93	pci/l	-
003647	Thorium-230	UNFILTERED	10/23/88	1048	1	pci/l	UJ
003368	Thorium-230	UNFILTERED	07/24/88	1048	1	pci/l	UJ
110900	Thorium-230	UNFILTERED	04/28/93	1048	0.138	pci/l	U
112000	Thorium-230	FILTERED	04/29/93	1045	0.072	pci/l	UJ
112000	Thorium-230	UNFILTERED	04/29/93	1045	0.24	pci/l	J
003856	Thorium-230	*U	1/22/89	1048	1	pci/l	U
066828	Thorium-230	*U	12/13/89	1045	1	pci/l	U
066831	Thorium-230	*U	12/16/89	1048	2.78	pci/l	-
003647	Thorium-232	UNFILTERED	10/23/88	1048	1	pci/l	UJ
003368	Thorium-232	UNFILTERED	07/24/88	1048	1	pci/l	UJ
110900	Thorium-232	UNFILTERED	04/28/93	1048	0.1	pci/l	UJ
112000	Thorium-232	FILTERED	04/29/93	1045	0.072	pci/l	UJ
112000	Thorium-232	UNFILTERED	04/29/93	1045	0.032	pci/l	J
003856	Thorium-232	*U	1/22/89	1048	1	pci/l	U
003647	Uranium, Total	UNFILTERED	10/23/88	1048	15	ug/l	-
003368	Uranium, Total	UNFILTERED	07/24/88	1048	17	ug/l	-
110900	Uranium, Total	UNFILTERED	04/28/93	1048	31.1	ug/l	-
112000	Uranium, Total	FILTERED	04/29/93	1045	2.47	ug/l	-
112000	Uranium, Total	UNFILTERED	04/29/93	1045	2.91	ug/l	-
003856	Uranium, Total	*U	1/22/89	1048	21	ug/l	-
066828	Uranium, Total	*U	12/13/89	1045	10.1	ug/l	-
066831	Uranium, Total	*U	12/16/89	1048	52.6	ug/l	-
003647	Uranium-234	UNFILTERED	10/23/88	1048	4.5	pci/l	J
003368	Uranium-234	UNFILTERED	07/24/88	1048	5.4	pci/l	J
110900	Uranium-234	UNFILTERED	04/28/93	1048	11.4	pci/l	-
112000	Uranium-234	FILTERED	04/29/93	1045	0.044	pci/l	UJ
112000	Uranium-234	UNFILTERED	04/29/93	1045	1.16	pci/l	-
003856	Uranium-234	*U	1/22/89	1048	6.6	pci/l	-
066828	Uranium-234	*U	12/13/89	1045	1.72	pci/l	-
066831	Uranium-234	*U	12/16/89	1048	14.2	pci/l	-
003647	Uranium-235/236	UNFILTERED	10/23/88	1048	1	pci/l	UJ
003368	Uranium-235/236	UNFILTERED	07/24/88	1048	1	pci/l	UJ
110900	Uranium-235/236	UNFILTERED	04/28/93	1048	0.56	pci/l	J
112000	Uranium-235/236	FILTERED	04/29/93	1045	0.16	pci/l	UJ
112000	Uranium-235/236	UNFILTERED	04/29/93	1045	0.051	pci/l	UJ
003856	Uranium-235/236	*U	1/22/89	1048	1	pci/l	U
066828	Uranium-235/236	*U	12/13/89	1045	1	pci/l	U
066831	Uranium-235/236	*U	12/16/89	1048	1	pci/l	U
003647	Uranium-238	UNFILTERED	10/23/88	1048	4	pci/l	J
003368	Uranium-238	UNFILTERED	07/24/88	1048	5.3	pci/l	J
110900	Uranium-238	UNFILTERED	04/28/93	1048	12.5	pci/l	-
112000	Uranium-238	FILTERED	04/29/93	1045	0.93	pci/l	J
112000	Uranium-238	UNFILTERED	04/29/93	1045	1.19	pci/l	-
003856	Uranium-238	*U	1/22/89	1048	6.9	pci/l	-
066828	Uranium-238	*U	12/13/89	1045	2.15	pci/l	-
066831	Uranium-238	*U	12/16/89	1048	15	pci/l	-

APPENDIX A.7

CIS DATA

SECTION A-7: CIS DATA

SOLID WASTE LANDFILL

Location	Sample ID*	East	North	Top	Bottom	Parameter	Qualifier	Results	Uncertainty	Units	Validated
SWL	SL46238	1379711	482098.72	6"	12"	Cs-137		0.31		PCI/G	Yes
SWL	SL46238	1379711	482098.72	6"	12"	Np-237		0.34		PCI/G	Yes
SWL	SL46238	1379711	482098.72	6"	12"	Pu-238		0.09		PCI/G	Yes
SWL	SL46238	1379711	482098.72	6"	12"	Th-228		1.29±0.29		PCI/G	Yes
SWL	SL46238	1379711	482098.72	6"	12"	Th-230		8.91±0.70		PCI/G	Yes
SWL	SL46238	1379711	482098.72	6"	12"	U-234		183±3.42		PCI/G	Yes
SWL	SL46238	1379711	482098.72	6"	12"	U-238		330±4.59		PCI/G	Yes
SWL	SL46238	1379711	482098.72	6-12"		Tc-99		0.9		PCI/G	Yes
SWL	SL46238	1379711	482098.72	6-12"		Th-232		1.05±0.25		PCI/G	Yes
SWL	SL46238	1379711	482098.72	6-12"		U-235		16.7±1.03		PCI/G	Yes

* - See Figure A-1

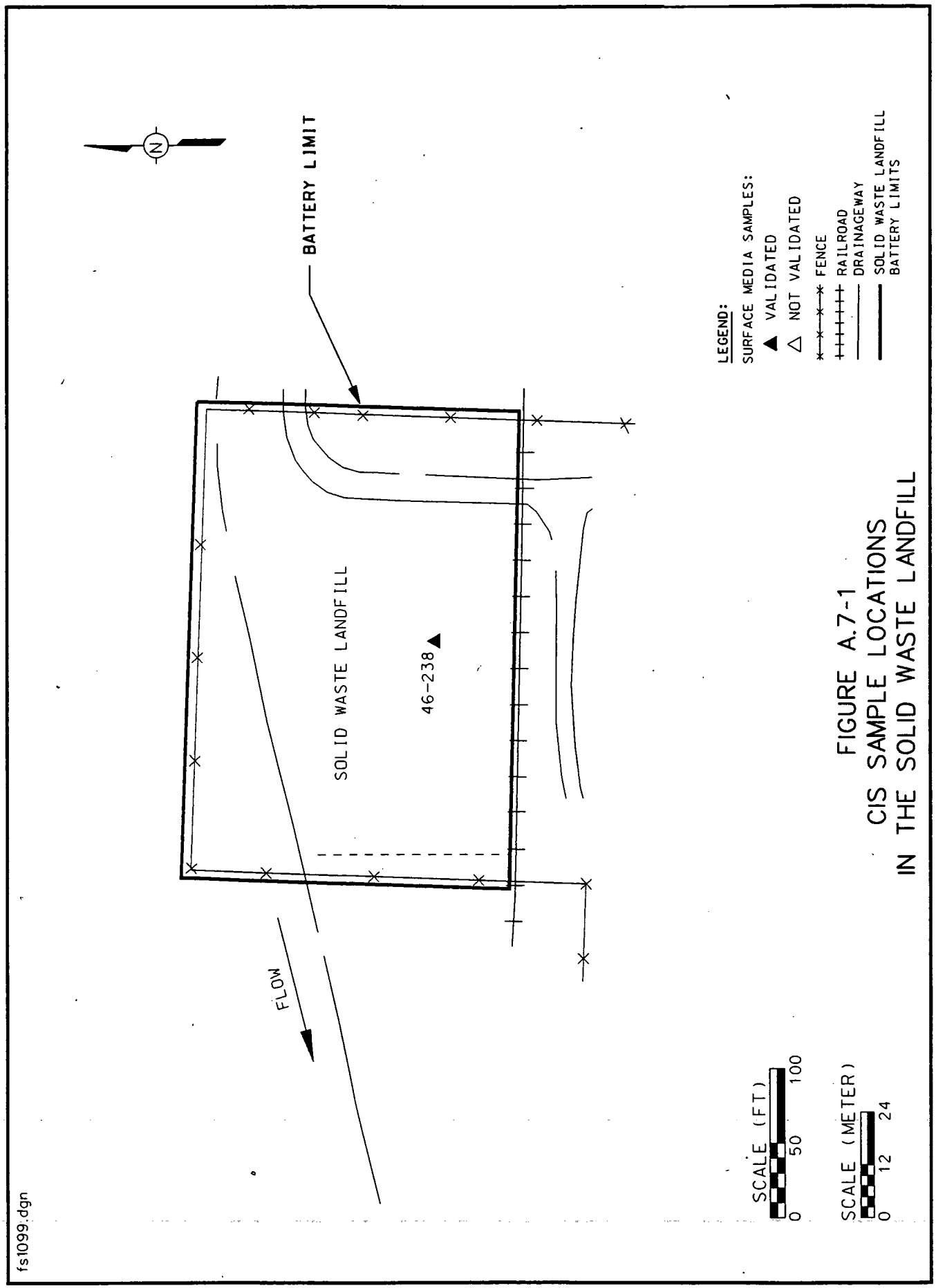


FIGURE A.7-1
CIS SAMPLE LOCATIONS
IN THE SOLID WASTE LANDFILL

000088

LIME SLUDGE PONDS

Location	Sample ID*	East	North	Top	Bottom	Parameter	Qualifier	Results	Uncertainty	Units	Validated
LSP	SS46187	1379622.9	480748.91	0-6"		Np-237		0.04		PCI/G	Yes
LSP	FMP-SS-23-012	1379557.13	480436.62	0	0.5	RADIUM-226	-	19.8	1.3	PCI/G	No
LSP	FMP-SS-23-012D	1379557.13	480436.62	0	0.5	RADIUM-226	-	19	1.2	PCI/G	No
LSP	FMP-SS-23-013	1379535.75	480423.21	0	0.5	RADIUM-226	-	6.7	0.9	PCI/G	No
LSP	SS46187	1379622.9	480748.91	0-6"		Tc-99		4.04±0.33		PCI/G	Yes
LSP	SS46187	1379622.9	480748.91	0	6"	Th-228		3.42±0.35		PCI/G	Yes
LSP	SS46187	1379622.9	480748.91	0	6"	Th-230		31.4±1.04		PCI/G	Yes
LSP	SS46187	1379622.9	480748.91	0-6"		Th-232		2.80±0.31		PCI/G	Yes
LSP	FMP-SS-23-012	1379557.13	480436.62	0	0.5	THORIUM-232	-	4.6	1.1	PCI/G	No
LSP	FMP-SS-23-012D	1379557.13	480436.62	0	0.5	THORIUM-232	-	2.9	1.5	PCI/G	No
LSP	FMP-SS-23-013	1379535.75	480423.21	0	0.5	THORIUM-232	-	9.2	3.3	PCI/G	No
LSP	SS46187	1379622.9	480748.91	0	6"	U-238		86.5±1.05		PCI/G	Yes
LSP	FMP-SS-23-012	1379557.13	480436.62	0	0.5	URANIUM-238	-	12.7	8	PCI/G	No
LSP	FMP-SS-23-012D	1379557.13	480436.62	0	0.5	URANIUM-238	<	11	0	PCI/G	No
LSP	FMP-SS-23-013	1379535.75	480423.21	0	0.5	URANIUM-238	-	19.1	7.4	PCI/G	No

* - See Figure A-2

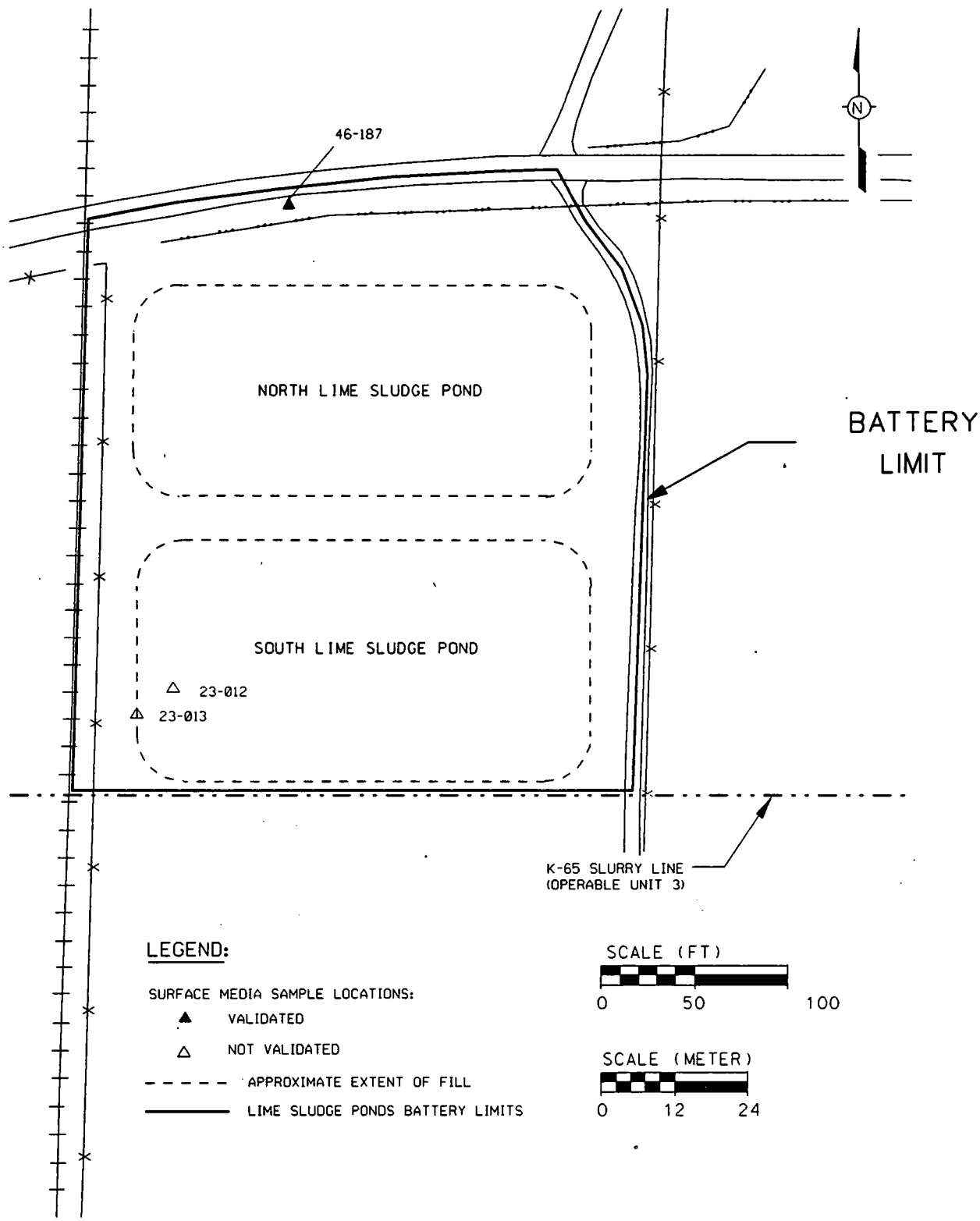


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FIGURE A.7-2
CIS SAMPLE LOCATIONS IN LIME SLUDGE PONDS

INACTIVE FLYASH PILE

Location	Sample ID*	East	North	Top	Bottom	Parameter	Qualifier	Results	Uncertainty	Units	Validated
IFP	SL24188	1379114.2	477876.47	12-18"		Cs-137		0.36±0.23		PCI/G	Yes
IFP	SS24137	1378951.6	477991.6	0-2"		Cs-137		1.15±0.77		PCI/G	Yes
IFP	SS24241	1378922.7	478067.44	0-6"		Cs-137		1.69±0.92		PCI/G	Yes
IFP	SL24188	1379114.2	477876.47	12	18"	Np-237		0.04		PCI/G	Yes
IFP	SS24137	1378951.6	477991.6	0	2"	Np-237		0.13		PCI/G	Yes
IFP	SS24241	1378922.7	478067.44	0	6"	Np-237		0.06		PCI/G	Yes
IFP	FMP-SD-53-001	1378833	478016	0	0.5	RADIUM-226	-	1.4	0.5	PCI/G	No
IFP	FMP-SD-53-002	1378831	478014	0	0.5	RADIUM-226	-	0.8	0.3	PCI/G	No
IFP	FMP-SS-24-137	1378951.63	477991.6	0	0.16	RADIUM-226	<	5.9	0	PCI/G	No
IFP	FMP-SS-24-224	1378995.73	478209.45	0	0.16	RADIUM-226	-	33.5	2.1	PCI/G	No
IFP	SL24188	1379114.2	477876.47	12-18"		Tc-99		1.20		PCI/G	Yes
IFP	SS24137	1378951.6	477991.6	0-2"		Tc-99		1.80		PCI/G	Yes
IFP	SS24241	1378922.7	478067.44	0-6"		Tc-99		594±51		PCI/G	Yes
IFP	SL24188	1379114.2	477876.47	12	18"	Th-228		3.55±0.52		PCI/G	Yes
IFP	SS24137	1378951.6	477991.6	0	2"	Th-228		13.5±3.63		PCI/G	Yes
IFP	SS24241	1378922.7	478067.44	0	6"	Th-228		3.52±0.45		PCI/G	Yes
IFP	SL24188	1379114.2	477876.47	12-18"		Th-230		1.58±0.34		PCI/G	Yes
IFP	SS24137	1378951.6	477991.6	0-2"		Th-230		17.8±3.69		PCI/G	Yes
IFP	SS24241	1378922.7	478067.44	0-6"		Th-230		8.66±0.68		PCI/G	Yes
IFP	SL24188	1379114.2	477876.47	12-18"		Th-232		2.91±0.48		PCI/G	Yes
IFP	SS24137	1378951.6	477991.6	0-2"		Th-232		18.5±3.81		PCI/G	Yes
IFP	SS24241	1378922.7	478067.44	0-6"		Th-232		1.95±0.36		PCI/G	Yes
IFP	FMP-SD-53-001	1378833	478016	0	0.5	THORIUM-232	-	1.1	0.6	PCI/G	No
IFP	FMP-SD-53-002	1378831	478014	0	0.5	THORIUM-232	<	0.5	0	PCI/G	No
IFP	FMP-SS-24-137	1378951.63	477991.6	0	0.16	THORIUM-232	-	5.3	2.2	PCI/G	No
IFP	FMP-SS-24-224	1378995.73	478209.45	0	0.16	THORIUM-232	<	1.2	0	PCI/G	No
IFP	SL24188	1379114.2	477876.47	12	18"	U-234		114±1.74		PCI/G	Yes
IFP	SS24137	1378951.6	477991.6	0	2"	U-234		255±2.92		PCI/G	Yes
IFP	SS24241	1378922.7	478067.44	0	6"	U-234		1137±76.3		PCI/G	Yes
IFP	SL24188	1379114.2	477876.47	12	18"	U-235		5.79±0.39		PCI/G	Yes
IFP	SS24137	1378951.6	477991.6	0	2"	U-235		14.6±0.70		PCI/G	Yes
IFP	SS24241	1378922.7	478067.44	0	6"	U-235		2190±33.5		PCI/G	Yes
IFP	SL24188	1379114.2	477876.47	12	18"	U-238		92.3±1.56		PCI/G	Yes
IFP	SS24137	1378951.6	477991.6	0	2"	U-238		216±2.69		PCI/G	Yes
IFP	SS24241	1378922.7	478067.44	0	6"	U-238		8600±66.3		PCI/G	Yes
IFP	FMP-SD-53-001	1378833	478016	0	0.5	URANIUM-238	-	8.9	3.4	PCI/G	No
IFP	FMP-SD-53-002	1378831	478014	0	0.5	URANIUM-238	-	4	3.1	PCI/G	No
IFP	FMP-SS-24-137	1378951.63	477991.6	0	0.16	URANIUM-238	-	204	24	PCI/G	No
IFP	FMP-SS-24-224	1378995.73	478209.45	0	0.16	URANIUM-238	<	17.9	0	PCI/G	No

* - See Figure A-3

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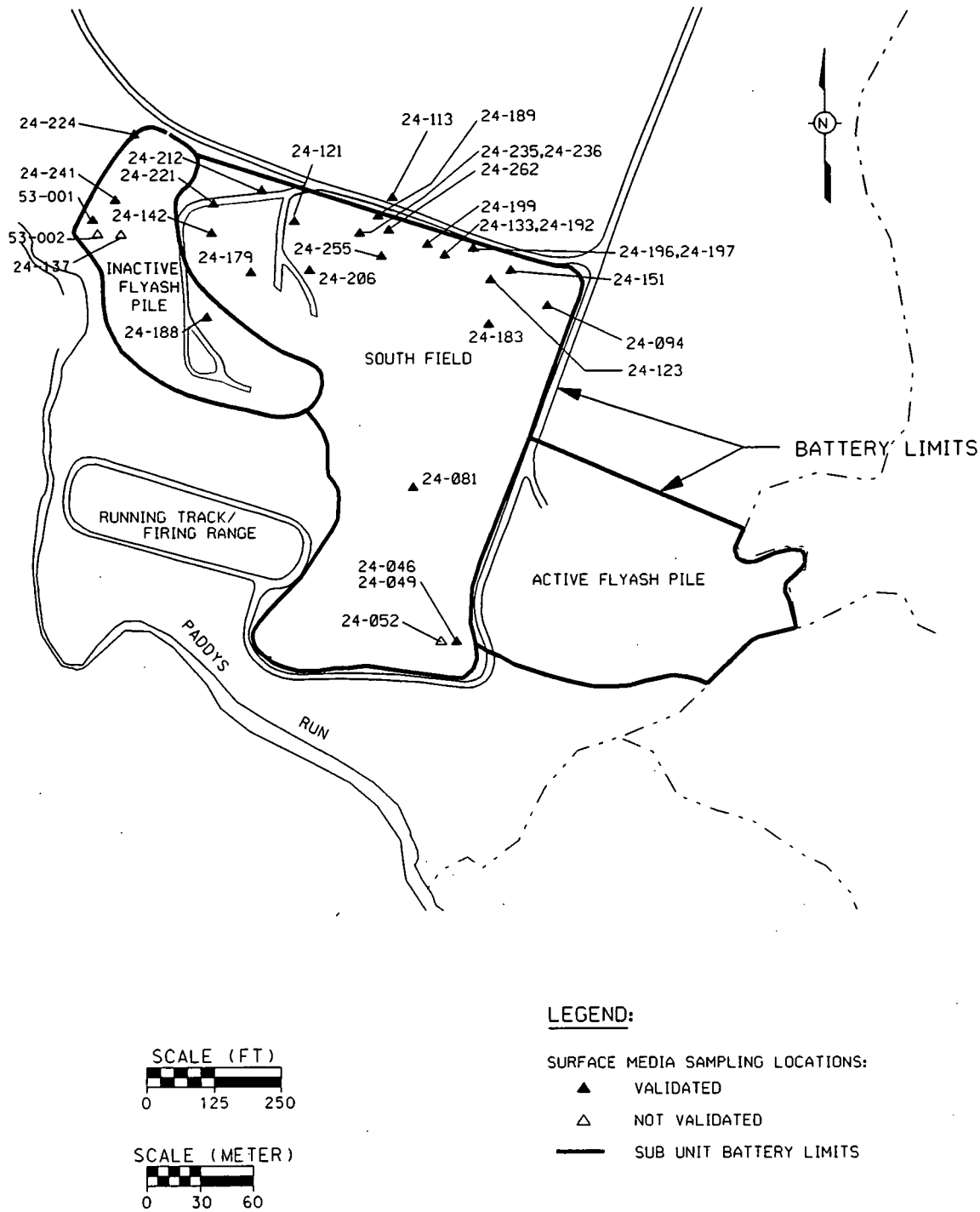

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FIGURE A.7-3
CIS SAMPLE LOCATIONS IN SOUTH FIELD/FLYASH PILES

						SOUTH FIELD					
Location	Sample ID*	East	North	Top	Bottom	Parameter	Qualifier	Results	Uncertainty	Units	Validated
SF	FMP-SL-24-052	1379619.42	477222.66	0.5	1	CS-137	<	1.6	0	PCI/G	No
SF	SL24049	1379630.1	477212.36	6	12"	Cs-137		2.81±0.90		PCI/G	Yes
SF	SL24094	1379813.2	477892.5	0	6"	Cs-137		0.27		PCI/G	Yes
SF	SL24121	1379302.9	478031.8	2	6"	Cs-137		0.29		PCI/G	Yes
SF	SL24179	1379204.7	477884.49	12	18"	Cs-137		0.27		PCI/G	Yes
SF	SL24192	1379581.5	477943.99	2	6"	Cs-137		0.54±0.52		PCI/G	Yes
SF	SL24197	1379620.9	477991.92	2	6"	Cs-137		2.24±0.48		PCI/G	Yes
SF	SL24199	1379563.9	477955.49	2	6"	Cs-137		0.37±0.37		PCI/G	Yes
SF	SL24206	1379339	477961.77	2	6"	Cs-137		0.48±0.77		PCI/G	Yes
SF	SL24236	1379420.8	477991.49	2	5"	Cs-137		0.61±0.36		PCI/G	Yes
SF	SL24255	1379481.9	477957.78	6	12"	Cs-137		0.25		PCI/G	Yes
SF	SL24262	1379529.1	478000.48	6	12"	Cs-137		0.37±0.70		PCI/G	Yes
SF	SS24046	1379630.1	477212.36	0	2"	Cs-137		0.61±0.35		PCI/G	Yes
SF	SS24081	1379488.1	477536.45	0	2"	Cs-137		4.38±2.52		PCI/G	Yes
SF	SS24123	1379638	477922.41	0	2"	Cs-137		1.38±0.72		PCI/G	Yes
SF	SS24133	1379581.5	477943.99	0	2"	Cs-137		0.25		PCI/G	Yes
SF	SS24142	1379133.4	478017.53	0	2"	Cs-137		1.03±0.52		PCI/G	Yes
SF	SS24151	1379695.2	477964.83	0	2"	Cs-137		0.24		PCI/G	Yes
SF	SS24183	1379210	477820.32	0	2"	Cs-137		0.69±0.39		PCI/G	Yes
SF	SS24189	1379506.4	478048.13	0	2"	Cs-137		2.39±0.70		PCI/G	Yes
SF	SS24196	1379620.9	477991.92	0	2"	Cs-137		1.02±0.49		PCI/G	Yes
SF	SS24212	1379226.2	478092.48	2	6"	Cs-137		0.26		PCI/G	Yes
SF	SS24221	1379154.2	478079.98	0	2"	Cs-137		0.27		PCI/G	Yes
SF	SS24235	1379420.8	477991.49	0	2"	Cs-137		0.28		PCI/G	Yes
SF	SL24049	1379630.1	477212.36	6	12"	Np-237		0.13		PCI/G	Yes
SF	SL24094	1379813.2	477892.5	0	6"	Np-237		0.08		PCI/G	Yes
SF	SL24121	1379302.9	478031.8	2	6"	Np-237		0.05		PCI/G	Yes
SF	SL24179	1379204.7	477884.49	12	18"	Np-237		0.13		PCI/G	Yes
SF	SL24192	1379581.5	477943.99	2	6"	Np-237		0.03		PCI/G	Yes
SF	SL24197	1379620.9	477991.92	2	6"	Np-237		0.04		PCI/G	Yes
SF	SL24199	1379563.9	477955.49	2	6"	Np-237		0.04		PCI/G	Yes
SF	SL24206	1379339	477961.77	2	6"	Np-237		0.41		PCI/G	Yes
SF	SL24236	1379420.8	477991.49	2	5"	Np-237		0.03		PCI/G	Yes
SF	SL24255	1379481.9	477957.78	6	12"	Np-237		0.04		PCI/G	Yes
SF	SL24262	1379529.1	478000.48	6	12"	Np-237		0.04		PCI/G	Yes
SF	SS24046	1379630.1	477212.36	0	2"	Np-237		0.04		PCI/G	Yes
SF	SS24081	1379488.1	477536.45	0	2"	Np-237		0.04		PCI/G	Yes
SF	SS24123	1379638	477922.41	0	2"	Np-237		0.03		PCI/G	Yes
SF	SS24133	1379581.5	477943.99	0	2"	Np-237		0.03		PCI/G	Yes
SF	SS24142	1379133.4	478017.53	0	2"	Np-237		0.03		PCI/G	Yes
SF	SS24151	1379695.2	477964.83	0	2"	Np-237		0.03		PCI/G	Yes
SF	SS24183	1379210	477820.32	0	2"	Np-237		0.04		PCI/G	Yes
SF	SS24189	1379506.4	478048.13	0	2"	Np-237		0.04		PCI/G	Yes
SF	SS24196	1379620.9	477991.92	0	2"	Np-237		0.04		PCI/G	Yes
SF	SS24212	1379226.2	478092.48	2	6"	Np-237		0.09		PCI/G	Yes
SF	SS24221	1379154.2	478079.98	0	2"	Np-237		0.02		PCI/G	Yes
SF	SS24235	1379420.8	477991.49	0	2"	Np-237		0.04		PCI/G	Yes
SF	FMP-SL-24-052	1379619.42	477222.66	0.5	1	RA-226	-	28.2	0.4	PCI/G	No
SF	SL24049	1379630.1	477212.36	6	12"	Tc-99		1.10		PCI/G	Yes
SF	SL24094	1379813.2	477892.5	0	6"	Tc-99		1.2		PCI/G	Yes
SF	SL24121	1379302.9	478031.8	2	6"	Tc-99		1.2		PCI/G	Yes
SF	SL24179	1379204.7	477884.49	12	18"	Tc-99		1.2		PCI/G	Yes
SF	SL24192	1379581.5	477943.99	2	6"	Tc-99		1.30		PCI/G	Yes
SF	SL24197	1379620.9	477991.92	2	6"	Tc-99		1.1		PCI/G	Yes

SOUTH FIELD											
Location	Sample ID*	East	North	Top	Bottom	Parameter	Qualifier	Results	Uncertainty	Units	Validated
SF	SL24199	1379563.9	477955.49	2	6"	Tc-99		1.30		PCI/G	Yes
SF	SL24206	1379339	477961.77	2	6"	Tc-99		1.40		PCI/G	Yes
SF	SL24236	1379420.8	477991.49	2	5"	Tc-99		1.30		PCI/G	Yes
SF	SL24255	1379481.9	477957.78	6	12"	Tc-99		1.20		PCI/G	Yes
SF	SL24262	1379529.1	478000.48	6	12"	Tc-99		1.20		PCI/G	Yes
SF	SS24046	1379630.1	477212.36	0	2"	Tc-99		1.2		PCI/G	Yes
SF	SS24081	1379488.1	477536.45	0	2"	Tc-99		1.3		PCI/G	Yes
SF	SS24123	1379638	477922.41	0	2"	Tc-99		1.40		PCI/G	Yes
SF	SS24133	1379581.5	477943.99	0	2"	Tc-99		1.2		PCI/G	Yes
SF	SS24142	1379133.4	478017.53	0	2"	Tc-99		1.40		PCI/G	Yes
SF	SS24151	1379695.2	477964.83	0	2"	Tc-99		2.10		PCI/G	Yes
SF	SS24183	1379210	477820.32	0	2"	Tc-99		1.50		PCI/G	Yes
SF	SS24189	1379506.4	478048.13	0	2"	Tc-99		1.20		PCI/G	Yes
SF	SS24196	1379620.9	477991.92	0	2"	Tc-99		1.2		PCI/G	Yes
SF	SS24212	1379226.2	478092.48	2	6"	Tc-99		1.5		PCI/G	Yes
SF	SS24221	1379154.2	478079.98	0	2"	Tc-99		4.0		PCI/G	Yes
SF	SS24235	1379420.8	477991.49	0	2"	Tc-99		1.30		PCI/G	Yes
SF	SL24049	1379630.1	477212.36	6	12"	Th-228		0.28±0.11		PCI/G	Yes
SF	SL24094	1379813.2	477892.5	0	6"	Th-228		0.51±0.16		PCI/G	Yes
SF	SL24121	1379302.9	478031.8	2	6"	Th-228		0.74±0.32		PCI/G	Yes
SF	SL24179	1379204.7	477884.49	12	18"	Th-228		129±4.31		PCI/G	Yes
SF	SL24192	1379581.5	477943.99	2	6"	Th-228		0.24±0.07		PCI/G	Yes
SF	SL24197	1379620.9	477991.92	2	6"	Th-228		1.75±1.20		PCI/G	Yes
SF	SL24199	1379563.9	477955.49	2	6"	Th-228		0.16±0.09		PCI/G	Yes
SF	SL24206	1379339	477961.77	2	6"	Th-228		1.71±0.53		PCI/G	Yes
SF	SL24236	1379420.8	477991.49	2	5"	Th-228		7.95±0.047		PCI/G	Yes
SF	SL24255	1379481.9	477957.78	6	12"	Th-228		0.62±0.30		PCI/G	Yes
SF	SL24262	1379529.1	478000.48	6	12"	Th-228		0.27±0.07		PCI/G	Yes
SF	SS24046	1379630.1	477212.36	0	2"	Th-228		0.51±0.11		PCI/G	Yes
SF	SS24081	1379488.1	477536.45	0	2"	Th-228		0.85±0.22		PCI/G	Yes
SF	SS24123	1379638	477922.41	0	2"	Th-228		0.30±0.08		PCI/G	Yes
SF	SS24133	1379581.5	477943.99	0	2"	Th-228		1.03±0.10		PCI/G	Yes
SF	SS24142	1379133.4	478017.53	0	2"	Th-228		4.80±0.79		PCI/G	Yes
SF	SS24151	1379695.2	477964.83	0	2"	Th-228		0.17		PCI/G	Yes
SF	SS24183	1379210	477820.32	0	2"	Th-228		34.3±2.19		PCI/G	Yes
SF	SS24189	1379506.4	478048.13	0	2"	Th-228		0.15±0.07		PCI/G	Yes
SF	SS24196	1379620.9	477991.92	0	2"	Th-228		0.62±0.21		PCI/G	Yes
SF	SS24212	1379226.2	478092.48	2	6"	Th-228		1.47±0.42		PCI/G	Yes
SF	SS24221	1379154.2	478079.98	0	2"	Th-228		1.87±0.20		PCI/G	Yes
SF	SS24235	1379420.8	477991.49	0	2"	Th-228		41.2±4.29		PCI/G	Yes
SF	SL24049	1379630.1	477212.36	6	12"	Th-230		399±3.77		PCI/G	Yes
SF	SL24094	1379813.2	477892.5	0	6"	Th-230		20.7±0.86		PCI/G	Yes
SF	SL24121	1379302.9	478031.8	2	6"	Th-230		83.5±3.09		PCI/G	Yes
SF	SL24179	1379204.7	477884.49	12	18"	Th-230		21.4±1.76		PCI/G	Yes
SF	SL24192	1379581.5	477943.99	2	6"	Th-230		3.56±0.26		PCI/G	Yes
SF	SL24197	1379620.9	477991.92	2	6"	Th-230		14.8±7.62		PCI/G	Yes
SF	SL24199	1379563.9	477955.49	2	6"	Th-230		2.92±0.28		PCI/G	Yes
SF	SL24206	1379339	477961.77	2	6"	Th-230		17.5±1.41		PCI/G	Yes
SF	SL24236	1379420.8	477991.49	2	5"	Th-230		28.7±0.89		PCI/G	Yes
SF	SL24255	1379481.9	477957.78	6	12"	Th-230		18.2±1.38		PCI/G	Yes
SF	SL24262	1379529.1	478000.48	6	12"	Th-230		12.1±0.44		PCI/G	Yes
SF	SS24046	1379630.1	477212.36	0	2"	Th-230		310±2.66		PCI/G	Yes
SF	SS24081	1379488.1	477536.45	0	2"	Th-230		77.1±1.96		PCI/G	Yes
SF	SS24123	1379638	477922.41	0	2"	Th-230		9.29±0.45		PCI/G	Yes
SF	SS24133	1379581.5	477943.99	0	2"	Th-230		35.7±1.08		PCI/G	Yes
SF	SS24142	1379133.4	478017.53	0	2"	Th-230		1.16±0.48		PCI/G	Yes
SF	SS24151	1379695.2	477964.83	0	2"	Th-230		2.31±0.28		PCI/G	Yes

SOUTH FIELD											
Location	Sample ID*	East	North	Top	Bottom	Parameter	Qualifier	Results	Uncertainty	Units	Validated
SF	SS24183	1379210	477820.32	0	2"	Th-230		10.7±1.25		PCI/G	Yes
SF	SS24189	1379506.4	478048.13	0	2"	Th-230		0.15±0.07		PCI/G	Yes
SF	SS24196	1379620.9	477991.92	0	2"	Th-230		21.2±1.08		PCI/G	Yes
SF	SS24212	1379226.2	478092.48	2	6"	Th-230		31.8±1.79		PCI/G	Yes
SF	SS24221	1379154.2	478079.98	0	2"	Th-230		7.05±0.37		PCI/G	Yes
SF	SS24235	1379420.8	477991.49	0	2"	Th-230		103±6.80		PCI/G	Yes
SF	FMP-SL-24-052	1379619.42	477222.66	0.5	1	Th-230	-	302	36.4	PCI/G	No
SF	SL24049	1379630.1	477212.36	6	12"	Th-232		0.49±0.13		PCI/G	Yes
SF	SL24094	1379813.2	477892.5	0	6"	Th-232		0.51±0.15		PCI/G	Yes
SF	SL24121	1379302.9	478031.8	2	6"	Th-232		0.69±0.28		PCI/G	Yes
SF	SL24179	1379204.7	477884.49	12	18"	Th-232		130±4.33		PCI/G	Yes
SF	SL24192	1379581.5	477943.99	2	6"	Th-232		0.11±0.05		PCI/G	Yes
SF	SL24197	1379620.9	477991.92	2	6"	Th-232		2.33±1.10		PCI/G	Yes
SF	SL24199	1379563.9	477955.49	2	6"	Th-232		0.06		PCI/G	Yes
SF	SL24206	1379339	477961.77	2	6"	Th-232		1.54±0.46		PCI/G	Yes
SF	SL24236	1379420.8	477991.49	2	5"	Th-232		10.0±0.53		PCI/G	Yes
SF	SL24255	1379481.9	477957.78	6	12"	Th-232		0.39±0.21		PCI/G	Yes
SF	SL24262	1379529.1	478000.48	6	12"	Th-232		0.18±0.05		PCI/G	Yes
SF	SS24046	1379630.1	477212.36	0	2"	Th-232		1.00±0.15		PCI/G	Yes
SF	SS24081	1379488.1	477536.45	0	2"	Th-232		0.45±0.15		PCI/G	Yes
SF	SS24123	1379638	477922.41	0	2"	Th-232		0.22±0.07		PCI/G	Yes
SF	SS24133	1379581.5	477943.99	0	2"	Th-232		1.04±0.19		PCI/G	Yes
SF	SS24142	1379133.4	478017.53	0	2"	Th-232		5.33±0.80		PCI/G	Yes
SF	SS24151	1379695.2	477964.83	0	2"	Th-232		0.12		PCI/G	Yes
SF	SS24183	1379210	477820.32	0	2"	Th-232		36.5±2.26		PCI/G	Yes
SF	SS24189	1379506.4	478048.13	0	2"	Th-232		0.04±0.03		PCI/G	Yes
SF	SS24196	1379620.9	477991.92	0	2"	Th-232		0.53±0.19		PCI/G	Yes
SF	SS24212	1379226.2	478092.48	2	6"	Th-232		1.32±0.37		PCI/G	Yes
SF	SS24221	1379154.2	478079.98	0	2"	Th-232		2.43±0.22		PCI/G	Yes
SF	SS24235	1379420.8	477991.49	0	2"	Th-232		44.2±4.49		PCI/G	Yes
SF	FMP-SL-24-052	1379619.42	477222.66	0.5	1	Th-232	-	8.1	0	PCI/G	No
SF	SL24049	1379630.1	477212.36	6	12"	U-234		78.9±1.45		PCI/G	Yes
SF	SL24094	1379813.2	477892.5	0	6"	U-234		4.16±0.35		PCI/G	Yes
SF	SL24121	1379302.9	478031.8	2	6"	U-234		13.6±0.57		PCI/G	Yes
SF	SL24179	1379204.7	477884.49	12	18"	U-234		31.2±0.78		PCI/G	Yes
SF	SL24192	1379581.5	477943.99	2	6"	U-234		18.9±0.75		PCI/G	Yes
SF	SL24197	1379620.9	477991.92	2	6"	U-234		98.4±2.39		PCI/G	Yes
SF	SL24199	1379563.9	477955.49	2	6"	U-234		6.31±0.37		PCI/G	Yes
SF	SL24206	1379339	477961.77	2	6"	U-234		8.98±0.48		PCI/G	Yes
SF	SL24236	1379420.8	477991.49	2	5"	U-234		74.0±2.16		PCI/G	Yes
SF	SL24255	1379481.9	477957.78	6	12"	U-234		8.32±0.47		PCI/G	Yes
SF	SL24262	1379529.1	478000.48	6	12"	U-234		48.6±0.99		PCI/G	Yes
SF	SS24046	1379630.1	477212.36	0	2"	U-234		15.1±0.56		PCI/G	Yes
SF	SS24081	1379488.1	477536.45	0	2"	U-234		2851±38.8		PCI/G	Yes
SF	SS24123	1379638	477922.41	0	2"	U-234		7.21±0.38		PCI/G	Yes
SF	SS24133	1379581.5	477943.99	0	2"	U-234		491±10.3		PCI/G	Yes
SF	SS24142	1379133.4	478017.53	0	2"	U-234		99.2±1.48		PCI/G	Yes
SF	SS24151	1379695.2	477964.83	0	2"	U-234		8.50±0.40		PCI/G	Yes
SF	SS24183	1379210	477820.32	0	2"	U-234		12.3±0.59		PCI/G	Yes
SF	SS24189	1379506.4	478048.13	0	2"	U-234		4.73±0.32		PCI/G	Yes
SF	SS24196	1379620.9	477991.92	0	2"	U-234		105±1.64		PCI/G	Yes
SF	SS24212	1379226.2	478092.48	2	6"	U-234		115±1.72		PCI/G	Yes
SF	SS24221	1379154.2	478079.98	0	2"	U-234		117±1.67		PCI/G	Yes
SF	SS24235	1379420.8	477991.49	0	2"	U-234		44.4±0.89		PCI/G	Yes
SF	SL24049	1379630.1	477212.36	6	12"	U-235		3.62±0.31		PCI/G	Yes
SF	SL24094	1379813.2	477892.5	0	6"	U-235		0.19±0.08		PCI/G	Yes
SF	SL24121	1379302.9	478031.8	2	6"	U-235		0.62±0.12		PCI/G	Yes

SOUTH FIELD											
Location	Sample ID*	East	North	Top	Bottom	Parameter	Qualifier	Results	Uncertainty	Units	Validated
SF	SL24179	1379204.7	477884.49	12	18"	U-235		1.36±0.16		PCI/G	Yes
SF	SL24192	1379581.5	477943.99	2	6"	U-235		1.07±0.18		PCI/G	Yes
SF	SL24197	1379620.9	477991.92	2	6"	U-235		3.80±0.47		PCI/G	Yes
SF	SL24199	1379563.9	477955.49	2	6"	U-235		0.27±0.08		PCI/G	Yes
SF	SL24206	1379339	477961.77	2	6"	U-235		0.31±0.09		PCI/G	Yes
SF	SL24236	1379420.8	477991.49	2	5"	U-235		3.23±0.45		PCI/G	Yes
SF	SL24255	1379481.9	477957.78	6	12"	U-235		0.35±0.09		PCI/G	Yes
SF	SL24262	1379529.1	478000.48	6	12"	U-235		2.39±0.22		PCI/G	Yes
SF	SS24046	1379630.1	477212.36	0	2"	U-235		0.63±0.11		PCI/G	Yes
SF	SS24081	1379488.1	477536.45	0	2"	U-235		356±13.7		PCI/G	Yes
SF	SS24123	1379638	477922.41	0	2"	U-235		0.30±0.08		PCI/G	Yes
SF	SS24133	1379581.5	477943.99	0	2"	U-235		20.1±2.04		PCI/G	Yes
SF	SS24142	1379133.4	478017.53	0	2"	U-235		4.17±0.30		PCI/G	Yes
SF	SS24151	1379695.2	477964.83	0	2"	U-235		0.39±0.09		PCI/G	Yes
SF	SS24183	1379210	477820.32	0	2"	U-235		0.68±0.14		PCI/G	Yes
SF	SS24189	1379506.4	478048.13	0	2"	U-235		0.27±0.08		PCI/G	Yes
SF	SS24196	1379620.9	477991.92	0	2"	U-235		4.38±0.34		PCI/G	Yes
SF	SS24212	1379226.2	478092.48	2	6"	U-235		5.53±0.38		PCI/G	Yes
SF	SS24221	1379154.2	478079.98	0	2"	U-235		4.85±0.34		PCI/G	Yes
SF	SS24235	1379420.8	477991.49	0	2"	U-235		1.86±0.18		PCI/G	Yes
SF	SL24049	1379630.1	477212.36	6	12"	U-238		82.7±1.48		PCI/G	Yes
SF	SL24094	1379813.2	477892.5	0	6"	U-238		5.43±0.40		PCI/G	Yes
SF	SL24121	1379302.9	478031.8	2	6"	U-238		14.8±0.59		PCI/G	Yes
SF	SL24179	1379204.7	477884.49	12	18"	U-238		29.1±0.75		PCI/G	Yes
SF	SL24192	1379581.5	477943.99	2	6"	U-238		17.7±0.73		PCI/G	Yes
SF	SL24197	1379620.9	477991.92	2	6"	U-238		102±2.44		PCI/G	Yes
SF	SL24199	1379563.9	477955.49	2	6"	U-238		5.92±0.36		PCI/G	Yes
SF	SL24206	1379339	477961.77	2	6"	U-238		9.54±0.50		PCI/G	Yes
SF	SL24236	1379420.8	477991.49	2	5"	U-238		68.9±2.09		PCI/G	Yes
SF	SL24255	1379481.9	477957.78	6	12"	U-238		8.54±0.47		PCI/G	Yes
SF	SL24262	1379529.1	478000.48	6	12"	U-238		56.7±1.07		PCI/G	Yes
SF	SS24046	1379630.1	477212.36	0	2"	U-238		16.2±0.58		PCI/G	Yes
SF	SS24081	1379488.1	477536.45	0	2"	U-238		2940±39.4		PCI/G	Yes
SF	SS24123	1379638	477922.41	0	2"	U-238		7.48±0.39		PCI/G	Yes
SF	SS24133	1379581.5	477943.99	0	2"	U-238		500±10.1		PCI/G	Yes
SF	SS24142	1379133.4	478017.53	0	2"	U-238		94.1±1.44		PCI/G	Yes
SF	SS24151	1379695.2	477964.83	0	2"	U-238		9.21±0.42		PCI/G	Yes
SF	SS24183	1379210	477820.32	0	2"	U-238		11.2±0.57		PCI/G	Yes
SF	SS24189	1379506.4	478048.13	0	2"	U-238		7.49±0.45		PCI/G	Yes
SF	SS24196	1379620.9	477991.92	0	2"	U-238		108±1.66		PCI/G	Yes
SF	SS24212	1379226.2	478092.48	2	6"	U-238		129±1.82		PCI/G	Yes
SF	SS24221	1379154.2	478079.98	0	2"	U-238		124±1.71		PCI/G	Yes
SF	SS24235	1379420.8	477991.49	0	2"	U-238		42.4±0.87		PCI/G	Yes
SF	FMP-SL-24-052	1379619.42	477222.66	0.5	1	U-238	<	20	1.3	PCI/G	No
* - See Figure A-3											

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Appendix B
ARARs

APPENDIX B

APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARs) AND TO BE CONSIDERED CRITERIA (TBCs)

LIST OF TABLES

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TABLE B-1
CHEMICAL-SPECIFIC REQUIREMENTS

Citation	Chemical	Requirement	Determination	Remarks
DRINKING WATER MAXIMUM CONTAMINANT LEVEL GOALS (MCLGs) AND MAXIMUM CONTAMINANT LEVELS (MCLs)				
EPA National Primary Drinking Water Regulations 40 CFR §141.15 and §141.16	MCLs for Radiological Contaminants	The following are maximum contaminant levels for radiological contaminants: Combined radium-226 and -228 . . . . . 5 pCi/L Gross alpha particle activity . . . . . 15 pCi/L (including radium-226 but excluding radon and uranium) Beta and photon radioactivity . . . . . 4 mrem/year from man-made radionuclides	Relevant and Appropriate	OEPA MCLs from OAC 3745-81-15 and -16 are the same as the Federal MCLs.
56 Federal Register 33050 (July 18, 1991)	Proposed MCLs for Radiological Contaminants	The following are the proposed maximum contaminant levels for radiological contaminants: Radium-226 . . . . . 20 pCi/L Radium-228 . . . . . 20 pCi/L Radon-222 . . . . . 300 pCi/L Uranium . . . . . 20 μg/L (30 pCi/L) Beta and photon emitters . . . . . 4 mrem ede/year (excluding radium-228) Adjusted gross alpha emitters . . . . . 15 pCi/L (excluding radium-226, uranium, and radon-222)	TBC	
EPA National Primary Drinking Water Regulations 40 CFR §141.61	MCLs for Organic Contaminants	The following are the maximum contaminant levels for organic contaminants: Benzo(a)pyrene . . . . . 0.0002 mg/L Polychlorinated biphenyls (PCBs) . . . . . 0.0005 mg/L	Relevant and Appropriate	Final MCLs are not presented for contaminants for which the non-zero MCLG is less than or equal to the MCL.
EPA National Primary Drinking Water Regulations 40 CFR §141.51	MCLGs for Inorganic Contaminants	The following are the non-zero maximum contaminant level goals for inorganic contaminants: Antimony . . . . . 0.006 mg/L Beryllium . . . . . 0.004 mg/L	Relevant and Appropriate	

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TABLE B-1
(Continued)

Citation	Chemical	Requirement	Determination	Remarks
DRINKING WATER MAXIMUM CONTAMINANT LEVEL GOALS (MCLGs) AND MAXIMUM CONTAMINANT LEVELS (MCLs) (continued)				
50 Federal Register 46936 (November 13, 1985)	Proposed MCLGs for Inorganic Contaminants	The following are proposed, non-zero, maximum contaminant level goals for inorganic contaminants: Arsenic . . . . . 0.05 mg/L	TBC	
Ohio Drinking Water Regulations OAC 3745-81-11	MCLs for Inorganic Contaminants	The following are the maximum contaminant levels for inorganic contaminants: Arsenic . . . . . 0.05 mg/L	Relevant and Appropriate	Final MCLs are not presented for contaminants for which the non-zero MCLG is less than or equal to the MCL. This MCL is a stricter state standard.
OHIO WATER QUALITY STANDARDS				
Ohio Water Quality Standards OAC 3745-1-21	Use Designation	Paddys Run and the Great Miami River are designated as: • warmwater aquatic life habitat • agricultural and industrial water supply • primary contact recreational use	Applicable	In addition to these overall designations: • Ross Rd. (River Mile (RM) 95.7) to Taylorsville Dam (RM 92.6) is a state resource water • RM 130 and RM 118 are public water supplies The FEMP effluent discharge pipe is located at RM 24.73, downstream of the state resource waters and public water supplies.
Ohio Water Quality Standards OAC 3745-1-07	Warmwater Habitat Water Quality Criteria	Parameter (µg/L) — outside mixing zone Max. / Avg. — inside mixing zone Max. Antimony (total) 650 190 1,300 Arsenic 360 190 720 Beryllium (total) 520 23 1,000	Applicable	Beryllium is based on a water hardness of 100 mg/L calcium carbonate ($CaCO_3$).

TABLE B-1
(Continued)

Citation	Chemical	Requirement	Determination	Remarks
OHIO WATER QUALITY STANDARDS (continued)				
Ohio Water Quality Standards OAC 3745-1-07 (continued)	Warmwater Habitat Water Quality Criteria	Parameter (µg/L) — outside mixing zone Max. / outside mixing zone Avg. / inside mixing zone Max. Dieldrin — - / 0.005 / - Polychlorinated Biphenyls (PCBs) — - / 0.001 / -	Applicable	
Ohio Water Quality Standards OAC 3745-1-07	Human Health and Agricultural Water Supply Criteria	Parameter (µg/L) — Human Health (outside mixing zone) / Agricultural Antimony (total) — 780 / - Arsenic — - / 100 Beryllium (total) — 1.17 / 100 Dieldrin — 0.00076 / - Polychlorinated Biphenyls (PCBs) — 0.00079 / - Polynuclear Aromatic Hyrdrocarbons (PAHs) — 0.31 / -	Applicable	
RADIATION DOSE LIMITS				
Radioactive Waste Management DOE Order 5820.2A Chapter III (3)(a)(2)	Protection of the General Population from Releases of Radioactivity	Concentrations of radioactive material which may be released to the general environment in surface water, ground water, soil, plants or animals must not result in an effective dose equivalent that exceeds 25 mrems per year to any member of the public. Reasonable effort should be made to maintain releases of radioactivity in effluents to the general environment as low as is reasonably achievable.	TBC	

000702

TABLE B-1
(Continued)

Citation	Chemical	Requirement	Determination	Remarks
		RADIATION DOSE LIMITS (continued)		
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter II (1)(a)	Public Dose Limits	The exposure of members of the public to radiation sources as a consequence of all routine DOE activities shall not cause, in a year, an effective dose equivalent greater than 100 mrem. Dose evaluations should reflect realistic exposure conditions. Specific authorization may be received for a temporary increase of the dose limit up to 500 mrem in a year.	TBC	
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter II (1)	Public Dose Limits	The public dose limits include consideration of all exposure modes from all DOE activities (including remedial activities). Effective dose equivalent is the sum of the effective dose equivalent (weighted summation of doses to various organs of the body) from exposures to radiation sources external to the body during the year plus the committed effective dose equivalent from radionuclides taken into the body during the year. Medical sources, consumer products, residual fallout from past nuclear accidents and weapons tests and naturally occurring radiation sources are not included in this summation.	TBC	
National Emission Standards for Hazardous Air Pollutants 40 CFR §61.92, 61.93 Subpart H [Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter II (1)(b)]	National Emissions Standards for Emissions of Radionuclides Other than Radon from DOE Facilities	Emissions of radionuclides (except radon-220 and radon-222) to the ambient air from Department of Energy facilities shall not exceed those amounts that would cause any member of the public to receive in any year an effective dose equivalent of 10 mrem/yr. To determine compliance with the standard, radionuclide emissions shall be determined and effective dose equivalent values to members of the public calculated using EPA approved sampling procedures, computer models CAP-88 or AIRDOS-PC, or other procedures for which EPA has granted prior approval.	Applicable	
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter II (3)(a)(5)	Interim Dose Limit for Native Aquatic Animal Organisms	The absorbed dose to native aquatic animal organisms shall not exceed 1 rad per day from exposure to the radioactive material in liquid wastes discharged to natural waterways.	TBC	

000203

TABLE B-1
(Continued)

Citation	Chemical	Requirement	Determination	Remarks
		RADIATION DOSE LIMITS (continued)		
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter IV (4)(c)	External Gamma Radiation	External gamma radiation levels on open lands shall comply with the basic public dose limit of 100 mrem effective dose equivalent in a year and the ALARA process, considering appropriate-use scenarios for the area.	TBC	
		EFFLUENT AND AIR EMISSION STANDARDS		
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter II (1)(d)	Drinking Water System Standards	It is DOE policy to provide a level of protection for persons consuming water from a public drinking water supply operated by the DOE, either directly or through a DOE contractor, that is equivalent to that provided to the public by the public community drinking water standards of 40 CFR Part 141 (listed above). These systems shall not cause persons consuming the water to receive an effective dose equivalent greater than 4 mrem in a year. Combined Ra-226 and Ra-228 shall not exceed 5×10^{-9} μCi/mL and gross alpha activity (excluding radon and uranium) shall not exceed 1.5×10^{-8} μCi/mL. The liquid effluents from DOE activities shall not cause private or public drinking water systems downstream of the facility discharge to exceed the drinking water radiological limits in 40 CFR Part 141 (listed above).	TBC	
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter III	Derived Concentration Guides for Air and Water	The derived concentration guides (DCGs) are provided as reference values for conducting radiological environmental protection programs at operational DOE facilities and sites. DCG values are presented in Figures III-1 and III-3 of DOE Order 5400.5 for the following exposure modes: • ingestion of water • inhalation of air • immersion in a gaseous cloud	TBC	

000804

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TABLE B-1
(Continued)

Citation	Chemical	Requirement	Determination	Remarks
		EFFLUENT AND AIR EMISSION STANDARDS (continued)		
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter III (continued)	Derived Concentration Guides for Air and Water	The DCG values for internal exposure are based on a committed effective dose equivalent of 100 mrem for the radionuclide taken into the body by ingestion or inhalation during one year. The DCG values account for only three exposure pathways (ingested water or inhaled air or air immersion) and do not include other potentially significant pathways. When more complex environmental pathways are involved, a more complete pathway analysis is required for calculating public radiation doses resulting from the operation of DOE facilities.	TBC	
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter II (3)(a)	Discharges of Liquid Waste to Surface Waters	The best available technology is the prescribed level of treatment for liquid radioactive discharges to surface waters that would otherwise contain radioactive concentrations greater than the DCG values. Implementation of the best available technology process is not required for waste streams that contain radionuclide concentrations of not more than the DCG values at the point of discharge to a surface waterway. The DCG for waste streams containing more than one type of radionuclide shall be the sum of the fractional DCG values.	TBC	
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter II (3)(a)(4)	Prevention of Radionuclide Buildup in Sediments	Liquid process waste streams containing radioactive material in the solid present in the waste stream must not exceed 5 pCi/g above background level of settleable solids for alpha-emitting radionuclides or 50 pCi/g above background of settleable solids for beta-gamma-emitting radionuclides.	TBC	

1000203

TABLE B-1
(Continued)

Citation	Chemical	Requirement	Determination	Remarks
		EFFLUENT AND AIR EMISSION STANDARDS (continued)		
Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings 40 CFR §192.02 (b) Subpart A 40 CFR §192.32 (b)(1)(ii) Subpart D Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter IV (6)(d)	Control of Radon Emissions	The following standards apply to the: • control of residual radioactive materials from inactive uranium processing sites. • management of uranium byproduct materials after closure of a disposal area. • long-term management of uranium, thorium, and their decay products. Controls shall be designed to provide reasonable assurance that releases of radon-222 from the above materials to the atmosphere will not: • exceed an average annual release rate of 20 pCi/m^{2}s • increase the annual average concentration of radon-222 in air or above any location outside the disposal site by more than 0.5 pCi/L.	Relevant and Appropriate	
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter IV (6)(b)	Interim Storage of Residual Radioactive Material	Control and stabilization features of an interim storage facility for residual radioactive material shall be designed such that radon-222 concentrations in the atmosphere above the facility, in addition to background levels, will not exceed: • 100 pCi/L at any given point • an annual average concentration of 30 pCi/L over the facility area • an annual average concentration of 3 pCi/L at or above any location outside the facility area • flux rates from the storage of radon producing wastes shall not exceed 20 pCi/m^{2}s	TBC	

000206

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TABLE B-1
(Continued)

Citation	Chemical	Requirement	Determination	Remarks
		EFFLUENT AND AIR EMISSION STANDARDS (continued)		
National Primary and Secondary Ambient Air Quality Standards 40 CFR §50	National Ambient Air Quality Standards	The following are the primary National Ambient Air Quality Standards (NAAQS): Criteria Pollutant / Primary Standard / Averaging Time Carbon Monoxide: 9 ppm, 8-hour; 35 ppm, 1-hour Lead: 1.5 $\mu g/m^3$, Quarterly average Nitrogen Dioxide: 0.053 ppm, Annual Particulate Matter: 50 $\mu g/m^3$, Annual; 150 $\mu g/m^3$, 24-hour Ozone: 0.12 ppm, 1-hour Sulfur oxides: 0.03 ppm, Annual; 0.14 ppm, 24-hour	Relevant and Appropriate	
Review of New Sources of Air Toxic Emissions OEPA Proposed Policy January 1994	De Minimis Emission Levels for Carcinogens	The following are the Ohio de minimis emission levels for classes A, B1, and B2 carcinogens: Carcinogen / EPA Class / Emission Level Chromium VI: A, 0.1 ton/year All Others: A, B1, B2, 1.0 ton/year	TBC	
Ohio Particulate Matter Standards OAC 3745-17-11	Restrictions on Particulate Emissions	The following are restrictions for particulates from any operation, process, or activity which releases or may release particulate emissions into the ambient air. These limits are based on the weight of material being processed.	Applicable	

TABLE B-1
(Continued)

Citation	Chemical	Requirement	Determination	Remarks
EFFLUENT AND AIR EMISSION STANDARDS (continued)				
Ohio Particulate Matter Standards OAC 3745-17-11 (continued)	Restrictions on Particulate Emissions	Process Weight at Maximum Capacity lb/hr. / Allowable Rate of Particulate Emission lb/hr. 100 / 0.551 200 / 0.877 400 / 1.40 600 / 1.83 800 / 2.22 1000 / 2.58	Applicable	
Standard of Performance for Nonmetallic Mineral Processing Plants 40 CFR § 670.672 (a),(d),(e)	Restrictions on Particulate Emissions From Crushers	No owner or operator shall cause to be discharged into the atmosphere from a crusher any emissions which: • contain particulate matter in excess of 0.05 grams per dry cubic meter at standard conditions (g/dscm); and • exhibit greater than 7 percent opacity Truck dumping of nonmetallic minerals into any crusher is exempt from these requirements.	Relevant and Appropriate	
RADIONUCLIDE CONCENTRATIONS IN SOILS				
Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings 40 CFR §192.12(a) Subpart B 40 CFR §192.20 Subpart C	Cleanup of Soils Contaminated with Residual Radioactive Materials	Remedial actions shall be conducted so as to provide reasonable assurance that, as a result of residual radioactive materials, the concentration of radium-226 in land averaged over any area of 100 m^2 shall not exceed the background level by more than: • 5 pCi/g, averaged over the first 15 cm of soil below the surface • 15 pCi/g, averaged over 15 cm thick layers of soil more than 15 cm below the surface Compliance with this requirement should be shown through measurements performed within the accuracy of currently available types of field and laboratory instruments in conjunction with reasonable survey and sampling procedures.	Relevant and Appropriate	

000703

TABLE B-1
(Continued)

Citation	Chemical	Requirement	Determination	Remarks
		RADIONUCLIDE CONCENTRATIONS IN SOILS (continued)		
Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings 40 CFR §192.21 (f) and §192.22 (b) Subpart C	Supplemental Standards	Where radionuclides other than radium-226 and its decay product are present in sufficient quantity and concentration to constitute a significant radiation hazard from residual radioactive materials, remedial actions shall, in addition to satisfying the standards of 40 CFR §§ 192.02, Subpart A and 192.12, Subpart B (both listed above), reduce other residual radioactivity to levels that are as low as is reasonably achievable.	Relevant and Appropriate	
Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings 40 CFR §192.32 (b)(2) Subpart D	Management of Uranium Byproduct Material	The requirements for the management of uranium byproduct materials after closure of a disposal area (40 CFR §192.32 (b)(1)) shall not apply to any portion of a disposal site which contains a concentration of radium-226 in land, averaged over areas of $100m^2$, which, as a result of uranium byproduct material, does not exceed the background level by more than the limits specified in 40 CFR §192.12 (a).	Relevant and Appropriate	
Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings 40 CFR §§ 192.40-192.42 Subpart E	Management of Thorium Byproduct Material	The following are requirements for the management of thorium byproduct materials: • the provisions for the management of uranium byproduct material (40 CFR §192.32) shall apply to thorium byproduct material and: - provisions applicable to the element uranium shall also apply to the element thorium - provisions applicable to radon-222 shall also apply to radon-220 - provisions applicable to radium-226 shall also apply to radium-228 With the concurrence of EPA, alternative provisions may be substituted for any of the above requirements provided the alternative provisions will provide at least an equivalent level of protection for human health and environment.	Relevant and Appropriate	

TABLE B-1
(Continued)

Citation	Chemical	Requirement	Determination	Remarks
		RADIONUCLIDE CONCENTRATIONS IN SOILS (continued)		
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter IV (4)(a)	Guidelines for Residual Radioactive Material	Guidelines for residual concentrations of radionuclides other than thorium and radium shall be derived from the basic dose limits by means of an environmental pathway analysis using specific property data where available. Procedures for these derivations are given in DOE/CH-8901. Residual concentrations of radioactive material in soil are defined as those in excess of background concentrations averaged over an area of 100 m^2.	TBC	
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter IV (4)(a)(2),(3)	Generic Guidelines for Residual Concentrations	The generic guidelines for residual concentrations (in excess of background) of radium-226, radium-228, thorium-230, and thorium-232 are: • 5 pCi/g, averaged over the first 15 cm of soil below the surface; and • 15 pCi/g, averaged over 15-cm-thick layers of soil more than 15 cm below the surface. These guidelines take into account ingrowth of radium-226 from thorium-230 and of radium-228 from thorium-232, and assume secular equilibrium. If both thorium-230 and radium-226, or both thorium-232 and radium-228, are present and not in secular equilibrium, the appropriate guideline is applied as a limit for the radionuclide with the higher concentration. If other mixtures of radionuclides occur, the concentrations of individual radionuclides shall be reduced so that either the dose for the mixture will not exceed the basic dose limit or the sum of the ratios of the soil concentration of each radionuclide to the allowable limit for that radionuclide will not exceed 1. Explicit formulas for calculating residual concentrations guidelines for mixtures are given in DOE/CH-8901.	TBC	

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TABLE B-1
(Continued)

Citation	Chemical	Requirement	Determination	Remarks
RADIONUCLIDE CONCENTRATIONS IN SOILS (continued)				
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter IV (4)(a)(1)	Hot Spots	If the average concentration in any surface or below surface area less than or equal to 25 m^2, exceeds the limit or guideline by a factor of $(100/A)^{0.5}$ [where A is the area (in square meters) of the region in which the concentrations are elevated], limits for "hot spots" shall also be developed and applied. Procedures for calculating these hot spots limits, which depend on the extent of the elevated local concentrations, are given in DOE/CH-8901. In addition, reasonable efforts shall be made to remove any source of radionuclide that exceeds 30 times the appropriate limit in the soil, irrespective of the average concentration in the soil.	TBC	
EPA Guidance Methods for Evaluating the Attainment of Cleanup Standards, Vol. 1	Attainment of Soil Cleanup Standards	This document describes methods for testing whether soil chemical concentrations at a site are statistically below a cleanup standard or ARAR. If it can be reasonably concluded that the remaining soil or treated soil at a site has concentrations that are statistically less than relevant cleanup standards then the site can be judged protective of human health and the environment.	TBC	
LAND DISPOSAL RESTRICTIONS LEVEL				
Resource Conservation and Recovery Act 40 CFR §268.41	Requirements for Lead Disposal	The maximum concentration of lead in the extract of any sample of treated soil is 5 mg/L.	Relevant and Appropriate	
PCB SOIL CLEANUP STANDARDS				
PCB Manufacturing, Processing, Distribution, and Use Prohibitions 40 CFR §761.125 (c)(4)(v)	Requirements for PCB Cleanup	Soil contaminated by a PCB spill in non-restricted access areas will be decontaminated to 10 ppm PCBs by weight, provided that the soil is excavated to a minimum depth of 10 inches. The excavated soil will be replaced with clean soil, i.e. containing less than 1 ppm PCBs, and the spill site will be restored (e.g. replacement of turf).	Relevant and Appropriate	The source of PCBs in Operable Unit 2 is unknown.

TABLE B-2
SOLID WASTE ACTION-SPECIFIC REQUIREMENTS

Citation	Action	Requirement	Determination	Remarks
		DEFINITIONS		
Resource, Conservation, and Recovery Act 42 U.S.C. §6903 (27)	Definition	Solid waste means any garbage, refuse, sludge from a waste treatment plant, water supply treatment plant, or air pollution control facility and other discarded material, including solid, liquid, semisolid, or contained gaseous material resulting from industrial, commercial, mining, and agricultural operations and from community activities, but does not include source, special nuclear, or byproduct material as defined by the Atomic Energy Act of 1954.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-01 (B)(40)	Definition	Solid wastes means such unwanted residual solid or semisolid material as results from industrial, commercial, agricultural, and community operations, excluding earth or material from construction, mining, or demolition operations, or other waste materials of the type that would normally be included in demolition debris, nontoxic flyash, spent nontoxic foundry sand, and slag and other substances that are not harmful or inimical to public health, and includes, but is not limited to, garbage, tires, combustible and noncombustible material, street dirt, and debris. Solid waste does not include any material that is an infectious waste or a hazardous waste. For the purpose of this definition, "semisolid material" does not contain liquids which can be readily released under normal climatic conditions, as determined by method 9095 (paint filter liquids test) in SW-846: "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods".	Applicable	
Resource, Conservation, and Recovery Act 40 CFR §261.3(a)	Definition	A solid waste is a hazardous waste, if: • it is not excluded from regulation as a hazardous waste under 40 CFR §261.4(b). • it exhibits any of the characteristics of hazardous waste. • it is listed in 40 CFR §§ 261.30 - 261.35. • it is a mixture of solid and hazardous wastes.	Applicable	

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		DEFINITIONS (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-03 (H)(2)	Definition	Chapters 3745-27 (Ohio Solid Waste Disposal Regulations) and 3745-37 (Ohio Hazardous Waste Management Regulations) do not apply to lime sludge disposal or storage. Lime sludge is defined as a material resulting from the treatment of a water supply for drinking or industrial purposes.	Applicable	
Ohio Infectious Waste Regulations OAC 3745-27-01 (B)(15) OAC 3745-27-30 (A),(E), (H) ORC 3734.021 (A)(1)(c), (d)	Definition	Infectious waste is defined by 9 categories of waste including human blood specimens and blood products, sharp wastes used in the treatment or inoculation of human beings, and any other waste materials generated in the diagnosis, treatment, or immunization of human beings. A generator who places all sharp infectious wastes and all unused hypodermic needles, syringes, and scalpel blades into a "SHARPS" container before they are transported and who generates less than 50 lbs. of infectious wastes each month and does not hold a certificate of registration as a generator of infectious wastes may transport and dispose of infectious wastes in the same manner as solid wastes. Treated infectious wastes can be transported and disposed in the same manner as noninfectious waste. Infectious waste that is also radioactive shall be managed in accordance with applicable Ohio Department of Health and U.S. Nuclear Regulatory Commission regulations.	Applicable	
Resource, Conservation, and Recovery Act 40 CFR §261.4(b)(4)	Definition	Flyash waste, bottom ash waste, slag waste, and fly gas emission control waste, generated primarily from the combustion of coal or other fossil fuels, are excluded from the definition of hazardous waste.	Applicable	

000713

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		DEFINITIONS (continued)		
55 Federal Register 30797, Section by Section Analysis, B.3. (July 27, 1990)	Definition	EPA has decided that firing range areas should not be considered solid waste management units. Unexploded ordinance fired during target practice is not discarded material which falls within the regulatory definition of "solid waste". Ordnance that does not explode, as well as fragments of exploded ordnance, would be expected to land on the ground. Hence, the "ordinary use" of ordinance includes placement on land.	TBC	According to this rule, the lead bullets in the soil embankment of the South Field Firing Range are not considered solid waste. EPA stated this position earlier in a September 6, 1988 memo from S. K. Lowrance which explained that discarded bullets are not considered solid waste. Because hazardous waste is a subset of solid waste, according to the Federal definition in RCRA, the discarded bullets also cannot be considered hazardous waste.
Ohio Petroleum Contaminated Soil Policy OEPA Policy PP 01 03 200	Definition	The basis of the "contained in" policy is that environmental media, such as soil or groundwater, are not considered to be waste material. Because they are not a solid waste, the mixture rule, as set forth in OAC 3745-51-03, does not apply when they become contaminated with a listed hazardous waste but only contains the waste. The result of this policy is that if the waste constituents can be removed, the soil is no longer considered to contain a hazardous waste. Therefore, since soil is not a waste material it does not have to be de-listed in order for it to be used for its intended purpose. However, as long as the soil contains the waste material, it must be managed as a hazardous waste. If we apply this concept to petroleum-contaminated soil, the soils containing a petroleum hydrocarbon would not need to be managed as a solid waste if the contaminants were removed.	TBC	

000214

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		DEFINITIONS (continued)		
Proposed Ohio Construction Debris Regulations OAC 3745-29-01 OAC 3745-29-08 (B)(1),(2),(4)	Definition	Construction and demolition debris means those materials resulting from the alteration, construction, destruction, rehabilitation, or repair of any manmade physical structure, including, without limitation, houses, buildings, industrial or commercial facilities, or roadways. Construction or demolition debris does not include reinforced or non reinforced concrete, asphalt, building or paving brick, or building or paving stone that is stored for a period of less than two years for recycling into a usable construction material. Construction debris disposal facilities that existed prior to the issuance of this rule are not required to install a recompacted soil liner or a leachate management system. Disposal facilities that have reached final elevations and no additional disposal will occur after the issuance date of this rule are not required to construct a cap system.	TBC	
CERCLA Compliance with Other Laws Manual Section 2.7	Definition	Placement/disposal of waste does not occur under the following circumstances: • waste is consolidated within a unit (including an area of contamination that can be viewed as a single unit); • waste is capped in place, including grading prior to capping; • waste is treated in situ; and • waste is processed within the unit in order to improve its structural stability for closure or for movement of equipment over the area.	TBC	

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		DEFINITIONS (continued)		
Resource, Conservation, and Recovery Act 40 CFR §260.10	Definition	Remediation waste means all solid and hazardous waste, and all media (including groundwater, surface water, soils, and sediments) and debris, which contain listed hazardous wastes or which themselves exhibit a hazardous waste characteristic, that are managed for the purpose of implementing corrective action requirements under 40 CFR §264.101 and RCRA section 3008(h). For a given facility, remediation wastes may originate only from within the facility boundary, but may include waste managed in implementing RCRA sections 3004(v) or 3008 (h) for releases beyond the facility boundary.	Relevant and Appropriate	
Resource, Conservation, and Recovery Act 40 CFR §264.552 (a),(c)	Definition	For the purpose of implementing corrective action for solid waste management units, the Regional Administrator may designate an area at the facility as a corrective action management unit (CAMU). One or more CAMU's may be designated at a facility. • Placement of remediation wastes into or within a CAMU does not constitute land disposal of hazardous wastes. • Consolidation or placement of remediation wastes into or within a CAMU does not constitute creation of a unit subject to minimum technology requirements. • The CAMU shall facilitate the implementation of reliable, effective, protective, and cost-effective remedies. • Waste management activities associated with the CAMU shall not create unacceptable risks to humans or to the environment resulting from exposure to wastes. • The CAMU shall include uncontaminated areas of the facility only if including such areas for the purpose of managing remediation waste is more protective than management of such wastes at contaminated areas of the facility.	Relevant and Appropriate	Under all of the remedial alternatives, any hazardous waste from the firing range is being sent off-site for disposal. This CAMU rule would only be used if Operable Unit 5 plans to dispose hazardous waste in a centralized disposal cell; the cell would then have to be designed to meet RCRA standards and it would not be cost-effective to send the firing range material off-site for disposal. Because this is dependent on Operable Unit 5, the RCRA disposal requirements will be addressed in Operable Unit 5 ARARs.

000716

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TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		DEFINITIONS (continued)		
Resource, Conservation, and Recovery Act 40 CFR §264.552 (a),(c) (continued)	Definition	• Areas within the CAMU, where wastes remain in place after closure of the CAMU, shall be managed and contained so as to minimize future releases, to the extent practicable. • The CAMU shall expedite the timing of remedial activity implementation, when appropriate and applicable. • The CAMU shall enable the use, when appropriate, of treatment technologies (including innovative technologies) to enhance the long-term effectiveness of remedial actions by reducing the toxicity, mobility, or volume of wastes that will remain in place after closure of the CAMU. • The CAMU shall, to the extent practicable, minimize the land area of the facility upon which wastes will remain in place after closure of the CAMU.	Relevant and Appropriate	
Resource, Conservation, and Recovery Act 40 CFR §264.553 (a),(b)	Definition	For temporary tanks and container storage areas used for treatment or storage of remediation wastes during remedial activities, the Regional Administrator may determine that a design, operating, or closure standard applicable to such units may be replaced by alternative requirements which are protective of human health and the environment. Any temporary unit to which alternative requirements are applied shall be: • located within the facility boundary; and • used solely for treatment or storage of remediation wastes.	Relevant and Appropriate	
		SOLID WASTE DISPOSAL		
Ohio Solid Waste Disposal Regulations OAC 3745-27-05 (A)	Solid Waste Disposal Methods	Solid waste shall be disposed of only by the following methods: • sanitary landfill	Applicable	

000717

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		SOLID WASTE DISPOSAL (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-05 (A) (continued)	Solid Waste Disposal Methods	• incineration • composting Methods not mentioned above and not prohibited by this chapter, OAC 3745-27, may be used provided that such methods are demonstrated to the satisfaction of the Director to be capable of disposing of solid waste without creating a nuisance or a health hazard, without causing water pollution, and without violating these regulations and any regulation adopted by the Director pursuant to Ohio Revised Code Chapter 3704 (Air Pollution Control).	Applicable	
US EPA Solid Waste Disposal Regulations 40 CFR §257.3-7	Open Burning Prohibited	The solid waste disposal facility or practice shall not engage in open burning of residential, commercial, institutional, or industrial solid waste. This requirement does not apply to land-clearing debris, diseased trees, debris from emergency clean-up operations, and ordnance.	Applicable	
US EPA Solid Waste Disposal Regulations 40 CFR §257.3-3	Surface Water	A solid waste disposal facility shall not cause a discharge of pollutants into waters of the United States that is in violation of the requirements of the NPDES under section 402 of the Clean Water Act, as amended. A solid waste disposal facility shall not cause a discharge of dredged material or fill material to waters of the United States that is in violation of the requirements under section 404 of the Clean Water Act, as amended. A solid waste disposal facility or practice shall not cause non-point source pollution of waters of the United States that violates applicable legal requirements implementing an area-wide or Statewide water quality management plan that has been approved by the Administrator under section 208 of the Clean Water Act, as amended.	Applicable	
US EPA Solid Waste Disposal Regulations 40 CFR §257.3-4	Groundwater Protection	A solid waste disposal facility or practice shall not contaminate an underground drinking water source beyond the solid waste boundary.	Applicable	

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		SOLID WASTE DISPOSAL (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (C)(1),(2),(3),(4),(5),(6),(7),(9)	Landfill Construction	The following layers must be installed in the construction of a sanitary landfill (from bottom to top): Recompacted Soil Liner The recompacted soil liner shall be: • constructed using loose lifts 8 inches thick with a maximum permeability of 1×10^{-7} cm/s. • constructed of a soil with a maximum clod size of 3 inches or half the lift thickness, whichever is less. • constructed of soil with: - 100% of the particles having a maximum dimension not greater than 2 inches. - not more than 10% of the particles, by weight, having a dimension greater than 0.75 inches. - not less than 50% of the particles, by weight, passing through the 200-mesh sieve. - not less than 25% of the particles, by weight, having a maximum dimension not greater than 0.002 millimeters. • compacted to at least 95% of the maximum "Standard Proctor Density" using ASTM D-698 or at least 90% of the maximum "Modified Proctor Density" using ASTM D-1557. • compacted at a moisture content at or wet of optimum. Alternatives for the above requirements may be used if it is demonstrated to the satisfaction of the Director that the materials and techniques will result in each lift having a maximum permeability of 1×10^{-7} cm/s. Additionally, the recompacted soil liner shall:	Applicable	This applies to new disposal of solid waste.

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		SOLID WASTE DISPOSAL (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (C)(1),(2),(3),(4),(5),(6),(7),(9) (continued)	Landfill Construction	• not comprised of solid waste. • be constructed using the same number of passes and lift thickness, and the same or similar type and weight of compaction equipment established by testing (as defined in this table). • be placed on the bottom and exterior excavated sides of the landfill and have a minimum bottom slope of 2% and a maximum slope based on: - compaction equipment limitations; - slope stability; - maximum friction angle between any soil-geosynthetic interface and between any geosynthetic-geosynthetic interface; and - resistance of geosynthetics and geosynthetic seams to tensile forces. • constructed on a prepared surface that shall: - be free of debris, foreign material, and deleterious material; - be able to bear the weight of the landfill and its construction operations without causing or allowing a failure of the liner to occur through settling; and - not have any abrupt changes in grade that may result in damage to geosynthetics. • be at least 5 feet thick, although the Director may approve an alternate thickness; to be no less than 3 feet, based upon the result of calculations or on a design that is no less protective of human health and the environment.	Applicable	

000820

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		SOLID WASTE DISPOSAL (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (C)(1),(2),(3),(4),(5),(6),(7),(9) (continued)	Landfill Construction	• be at least 3 feet thick with a geosynthetic clay liner that meets the specifications in paragraph (C)(3) of this rule although the Director may approve an alternate thickness to be no less than 1½ feet, based upon the results of calculations or on a design that is no less protective of human health and the environment. • have a factor of safety for hydrostatic uplift not less than 1.4. • be adequately protected from damage due to desiccation, freeze/thaw cycles, wet/dry cycles, and the intrusion of objects during construction and operation.	Applicable	
		Flexible Membrane Liner		
		The flexible membrane liner shall be: • placed on the recompacted soil liner. • sixty mil high density polyethylene (HDPE). • be protected from the drainage layer by a cushion layer, as required by the Director Other materials or thicknesses may be used if, at a minimum, the flexible membrane liner meets all the following: • negligibly permeable to fluid migration. • physically and chemically resistant to chemical attack by the solid waste, leachate, or other materials which may come in contact with the flexible membrane liner. • seamed to allow no more than negligible amounts of leakage with seaming material that is physically and chemically resistant to chemical attack by the solid waste, leachate, or other materials which may come in contact with the seams.		

000724

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		SOLID WASTE DISPOSAL (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (C)(1),(2),(3),(4),(5),(6),(7),(9) (continued)	Landfill Construction	• have properties for its installation and use which are acceptable to the Director. • protected from the drainage layer by a cushion layer, as required by the Director. • have a minimum thickness of 40 mils.	Applicable	
		Geosynthetic Clay Liner		
		The geosynthetic clay liner used in lieu of part of the recompacted soil liner shall be: • negligibly permeable to fluid migration. • be installed to allow no more than negligible amounts of leakage by a minimum overlap of 6 inches, or, for end of panel seams, a minimum over of 12 inches. Overlap shall be increased in accordance with manufacturers specifications or to account for shrinkage due to weather conditions. • have a bentonite mass per unit area of at least 1 pound per square foot. • be installed in accordance with the manufacturers specifications in regards to handling, overlap, and the use of granular or powdered bentonite to enhance bonding at the seams. • be constructed above the recompacted soil liner.		
		Leachate Management System		
		The leachate management system shall:		

000722

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		SOLID WASTE DISPOSAL (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (C)(1),(2),(3),(4),(5),(6),(7),(9) (continued)	Landfill Construction	• be designed to prevent clogging and crushing of the system and to limit the level of leachate in areas other than lift stations to a maximum of 1 foot. • include a drainage layer placed on top of the flexible membrane liner composed of granular material that must: - have a minimum permeability of 1 x 10^{-3} cm/s; - have a minimum thickness of 1 foot; - have a negligible amount of fines; and - not contain carbonate material. An alternate material and/or thickness may be used if it is demonstrated to the satisfaction of the Director that the material meets the requirements. • include leachate collection pipes to remove leachate from the bottom of the landfill. The pipes must: - be imbedded in the drainage layer; - have a minimum slope of 0.5%; - have lengths and configuration which shall not exceed the capabilities of clean-out devices; - be provided with access for clean-out devices which shall be protected from differential settling; - have joints sealed to prevent separation; and - be physically and chemically resistant to attack by the solid waste, leachate, or other materials that they may come in contact with. Sealing material and means of access for clean-out devices shall also be physically and chemically resistant to attack by the solid waste, leachate, or other materials that they may come in contact with.	Applicable	

000723

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		SOLID WASTE DISPOSAL (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (C)(1),(2),(3),(4),(5),(6),(7),(9) (continued)	Landfill Construction	An alternate means for leachate removal may be used if it is demonstrated to the satisfaction of the Director that the means for leachate removal meets the requirements. • include a filter layer to prevent clogging of the leachate collection system. • include a protective layer to protect the recompacted soil liner, flexible membrane liner, geosynthetic clay liner (if applicable), and leachate collection system from the intrusion of objects during construction and operation. • include lift stations which are to be protected from adverse effects from leachate and differential settling. If manholes are used as lift stations, they must be equipped with automatic high level alarms located no greater than 6 feet above the invert of the leachate inlet pipe. Lift station pipes should be of adequate capacity and shall automatically commence pumping before the leachate elevation activates the high level alarm.	Applicable	
		Leachate Collection and Storage		
		Any leachate conveyance and storage structures located outside the limits of solid waste placement shall be no less protective of the environment than the landfill facility, as determined by the Director, and: • The structures must be monitored, as required by the Director. • Storage tanks must be provided with spill containment • Leachate lines must be double-cased		

000221

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		SOLID WASTE DISPOSAL (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (C)(1),(2),(3),(4),(5),(6),(7),(9) (continued)	Landfill Construction	• Storage structures must have a minimum of 1 week of storage capacity using design assumptions simulating final closure. • If at any time leachate is evaluated to be hazardous in accordance with rule 3745-52-11 of the OAC, it shall be managed in accordance with Chapters 3745-50 to 3745-69 of the OAC, and the generator standards for storage shall apply in accordance with Chapter 3745-52 of the OAC.	Applicable	
		Surface Water Control		
		• Any permanent or temporary surface water control structures shall be designed to accommodate, by non-mechanical means, the peak flow from the 25-year/24-hour storm event. • Surface water control structures shall be designed to minimize silting and scouring. • If sedimentation ponds are used, they shall be designed and constructed according to OAC 3745-27-08 (C)(6)(b).		
		Benchmarks		
		• At least 3 permanent third order benchmarks on separate sides of the landfill facility shall be within easy access to the limits of solid waste placement and shall be constructed in accordance with OAC 3745-27-08(C)(7)(a)-(c).		

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
SOLID WASTE DISPOSAL (continued)				
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (C)(1),(2),(3),(4),(5),(6),(7),(9) (continued)	Landfill Construction	Groundwater Control • Any permanent groundwater control structures shall adequately control groundwater infiltration through the use of non-mechanical means such as impermeable barriers or permeable drainage structures. • No permanent groundwater control structures may be used to dewater an aquifer system, except if the recharge and discharge zone of the aquifer system are located entirely within the boundary of the landfill facility.	Applicable	
EPA Criteria for Municipal Solid Waste Landfills 40 CFR §258.40	Landfill Design Criteria	The liner and leachate system shall be designed and constructed to maintain less than a 30-cm depth of leachate over the liner. The geomembrane must be at least 30-mil thick.	Relevant and Appropriate	
EPA Criteria for Municipal Solid Waste Landfills 40 CFR §258.26	Run-On/Run-Off Control Systems	The landfill shall have: • a run-on control system to prevent flow onto the active portion of the landfill during the peak discharge from a 25-year storm. • a run-off control system from the active portion of the landfill to collect and control at least the water volume resulting from a 24-hour, 25-year storm.	Relevant and Appropriate	
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (D) and (E)	Landfill Construction	Prior to being used in the construction of the recompacted soil liner and drainage layer of the sanitary landfill or the landfill cap, the following characteristics of the earthen materials must be determined to show that the material is suitable for use in construction of the landfill.	Applicable	

000220
6645

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
SOLID WASTE DISPOSAL (continued)				
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (D) and (E) (continued)	Landfill Construction	**Soil Material Specifications** The following tests shall be performed on representative samples at least once for every 1,500 yd^3 of soil except the recompacted permeability test, which shall be performed at least once for every 10,000 yd^3 of soil. • recompacted permeability at construction specifications; • moisture content and density using an approved ASTM method; • grain size distribution using ASTM D-422 for sieve and hydrometer methods; and • Atterberg limits using ASTM D-4318. • chemical compatibility testing may be required by the Director	Applicable	
		Granular Drainage Material Specifications The following tests shall be performed at least once for every 3,000 yd^3 of material. • permeability; • grain size distribution using ASTM D-422 for the sieve method; and • chemical compatibility testing may be required by the Director.		

000227

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		SOLID WASTE DISPOSAL (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (D) and (E) (continued)	Landfill Construction	Geosynthetic Material Specifications Geosynthetics, other synthetic materials, and joint sealing compounds used in the construction of the flexible membrane liner, geosynthetic clay liner, and leachate management system for a sanitary landfill facility or a sanitary landfill cap system shall be shown to: • be physically and chemically resistant to attack by the solid waste, leachate, or other materials that they may come in contact with using USEPA Method 9090 or other documented data. • have properties acceptable for installation and use.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (C)(1)(m),(o) and (C)(2)(g)	Landfill Construction	The following activities must be performed to ensure that the components of the sanitary landfill facility meet the specifications of this rule. Test Pads The recompacted soil liner and the recompacted soil barrier layer in the cap system shall be modeled by the construction of test pads. The test pads shall: • be designed such that the proposed tests are appropriate and their results are valid. • be constructed to establish the construction details which are necessary to obtain sufficient compaction to satisfy the permeability requirement. The construction details include: - lift thickness; - water content necessary to achieve the desired compaction; and	Applicable	

000728

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		SOLID WASTE DISPOSAL (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (C)(1)(m),(o) and (C)(2)(g) (continued)	Landfill Construction	- type, weight, and number of passes of construction equipment. • be constructed prior to the construction of the sanitary landfill component which the test pad will model. • be constructed whenever there is a significant change in soil material properties. • have a minimum width three times the width of the compaction equipment, and a minimum length two times the length of compaction equipment, including power equipment and any attachments. • be comprised of at least four lifts. • be tested for field permeability, following the completion of test pad construction. For each lift a minimum of 3 tests for moisture content and density shall be performed. • be reconstructed as many times as necessary to meet the permeability requirement. Any amended construction details shall be noted. An alternative to test pads may be used if it is demonstrated to the satisfaction of the Director that the alternative meets the requirements.	Applicable	
		Moisture Content and Density Testing Moisture content and density testing of the recompacted soil liner and recompacted soil barrier in the cap system shall be performed at a frequency of no less than 5 tests per acre per lift. Any penetrations shall be repaired using methods acceptable to the Director.		

000529

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		SOLID WASTE DISPOSAL (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (C)(1)(m),(o) and (C)(2)(g) (continued)	Landfill Construction	Flexible Membrane Liner Testing • For the purpose of testing every seaming apparatus in use each day, peel and shear tests shall be performed on scrap pieces of flexible membrane liner at the beginning of the seaming period and every four hours thereafter. • Nondestructive testing shall be performed on 100% of the flexible membrane liner seams. • Destructive testing for peel and shear shall be performed at least once for every 500 feet of seam length. An alternate means may be used if it is demonstrated to the satisfaction of the Director that the alternate means meets the requirements.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (G)	Landfill Construction	All tests failing to meet the specifications outlined above must be investigated and the areas reconstructed to meet specifications.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (F)	Landfill Construction	The following testing procedures shall be included in a Quality Assurance/Quality Control Plan: • sampling and testing procedures to be used in the field and in the laboratory; • testing frequency; • parameters and sample locations; • procedures to be followed if a test fails; • the management structure and the experience and training of the testing personnel; and • contingency plan for anticipated construction difficulties. The following components shall be included in a Quality Assurance/Quality Control Plan:	Applicable	

000730

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		SOLID WASTE DISPOSAL (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (F) (continued)	Landfill Construction	• in-situ foundation preparation; • recompacted soil and/or geosynthetic clay liner system; • flexible membrane liner; • leachate management system; • cap system; • permanent ground water control structures; and • explosive gas control/extraction systems.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-19 (E)(19)	Sanitary Landfill Operation	To demonstrate that the solid wastes to be received at the landfill facility will not compromise the integrity of any material used to construct the landfill facility, the Director may require chemical compatibility testing to be performed.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-19 (E)(26)	Sanitary Landfill Operation	The integrity of the engineered components of the landfill facility shall be maintained and any damage to, or failure or, the components shall be repaired.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-19 (J)(1), (4)	Sanitary Landfill Operations	Surface water shall be diverted from areas where solid waste is being, or has been, deposited. The facility shall be designed, constructed, maintained, and provided with surface water control structures, as necessary, to control run-on and run-off of surface water to ensure minimal infiltration of water through the cover material and cap system, and minimal erosion of the cover material and cap system. If ponding or erosion occurs on areas of the landfill facility where solid waste is being, or has been, deposited, action will be taken to correct the conditions causing the ponding or erosion.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-19 (K)(1)	Sanitary Landfill Operations	If leachate is detected on the surface of the landfill facility, then the outbreak(s) shall be repaired and: • leachate shall be contained and properly managed at the sanitary landfill facility.	Applicable	

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		SOLID WASTE DISPOSAL (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-19 (K)(1) (continued)	Sanitary Landfill Operations	• if necessary, leachate shall be collected and disposed in accordance with paragraph (K)(5) and (K)(6) of OAC 3745-27-19. • actions shall be taken to minimize, control, or eliminate the conditions which contribute to the production of leachate.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-19 (K)(2)	Sanitary Landfill Operations	At least one lift station back-up pump shall be kept at the sanitary waste landfill facility at all times.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-19 (K)(3)	Sanitary Landfill Operations	The collection pipe network of the leachate management system shall be inspected after placement of the initial lift of waste to ensure that crushing has not occurred and shall be inspected annually thereafter to ensure that clogging has not occurred.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-19 (K)(4)	Sanitary Landfill Operations	If authorized by the Director, leachate may be temporarily stored within the limits of solid waste placement until the leachate can be treated and disposed.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-10	Groundwater Monitoring Program	The groundwater monitoring system for detection monitoring, assessment monitoring, or corrective measures shall consist of a sufficient number of wells, installed at appropriate locations and depths, to yield groundwater samples from both the uppermost aquifer system and any significant zones of saturation that exist above the uppermost aquifer system that: • represent the quality of the background groundwater that has not been affected by past or present operations; and • represent the quality of the groundwater passing directly downgradient of the limits of solid waste placement.	Applicable	

000232

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		SOLID WASTE DISPOSAL (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-10 (continued)	Groundwater Monitoring Program	The groundwater monitoring program shall include consistent sampling and analysis procedures and statistical methods that are protective of human health and the environment and that are designed to ensure monitoring results that provide an accurate presentation of groundwater quality at the background and downgradient well. If contamination from the landfill is discovered, corrective measures shall be taken.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-11 (H)	Final Closure of Landfill Facilities	At final closure of a landfill facility: • all land surfaces shall be graded to prevent ponding of water where solid waste has been placed. Drainage facilities shall be provided to direct surface water from the landfill facility. • a groundwater monitoring system shall be designed and installed in accordance with OAC 3745-27-10, if a system is not already in place.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-11 (O)	Final Closure of Landfill Facilities	Closure of the sanitary landfill facility must be completed in a manner that minimizes the need for further maintenance and minimizes post-closure formation and release of leachate and explosive gases to air, soil, groundwater, or surface water to the extent necessary to protect human health and the environment.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (C)(15)	Construction of a Landfill Cap System	A composite cap system which shall minimize infiltration, must be constructed in all areas of solid waste placement: • The cap system shall have a slope of between 5% and 25% or some greater slope based on stability analyses. • The cap system shall have a maximum projected erosion rate of 5 tons/acre/year. • Any penetrations into the cap system shall be sealed so that the integrity of the soil barrier layer is maintained.	Applicable	

000233

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		SOLID WASTE DISPOSAL (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (C)(15) (continued)	Construction of a Landfill Cap System	The cap system shall, at a minimum, consist of the following (from bottom to top):	Applicable	
		Recompacted Soil Barrier Layer		
		The recompacted soil barrier layer of the cap shall be: • a minimum of 18 inches thick and constructed in accordance with the specifications outlined above for construction of the recompacted soil liner for a landfill facility ((C)(1)(a) to (C)(1)(g) and (C)(1)(m) to (C)(1)(o) of OAC 3745-27-08) with the exception that the maximum permeability of the recompacted soil barrier shall be 1x 10^{-6} cm/sec; OR • a geosynthetic clay liner of equal or less permeability as the recompacted soil barrier layer, with an engineered subgrade constructed in accordance with the following requirements: • The thickness of the subgrade shall be sufficient to achieve an evenly graded surface and shall be a minimum of 12 inches. • Be constructed of a soil with 100% of the particles have a maximum dimension not greater than 2 inches and with not more than 10% of the particles, by weight, having a dimension greater than 0.75 inches. • Be compacted to at least 95% of the maximum "Standard Proctor Density" using ASTM D-698 or at least 90% of the maximum "Modified Proctor Density" using ASTM D-1557. • After being smooth-rolled, the surface shall not have sharp edged or protruding particles.		

000234

6645

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		SOLID WASTE DISPOSAL (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (C)(15) (continued)	Construction of a Landfill Cap System	• The particle size and proctor density required shall be verified by tests performed on representative samples based on the variability and homogeneity of the material, but no less than a minimum of once for every 5,000 cubic yards of material used in the engineered subgrade. • Field density testing shall be performed at a frequency not less than 5 tests per acre. Any penetrations in the subgrade as a result of the testing must be repaired using bentonite or a bentonite-soil mixture.	Applicable	
		Flexible Membrane Liner		
		The flexible membrane liner for the cap system shall be constructed on top of the soil barrier layer or geosynthetic clay liner in accordance with the specifications listed above for a flexible membrane liner for a landfill facility [OAC 3745-27-08 (C)(2)].		
		Drainage Layer		
		The drainage layer shall be: • a minimum of 1 foot of granular material; OR • a drainage net that has equivalent performance capabilities as the granular material. • constructed on top of the flexible membrane liner in accordance with the specifications outlined above for the drainage layer included in the leachate management system of a sanitary landfill facility ((C)(4)(a) of 3745-27-08 of the OAC).		

000735

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		SOLID WASTE DISPOSAL (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-08 (C)(15) (continued)	Construction of a Landfill Cap System	Frost Protection Layer The frost protection layer shall be: • placed on top of the drainage layer. • a minimum of 30 inches thick. If the drainage layer is constructed with granular material instead of a drainage net, the drainage layer may be used as part of the frost protection layer.	Applicable	
		Soil Vegetative Layer The soil vegetative layer shall: • consist of soil and vegetation placed on top of the frost protection layer. • have soil of sufficient thickness and fertility to support its vegetation and to protect the recompacted soil barrier layer and flexible membrane liner from damage due to root penetration. • have healthy grasses or other vegetation that form a complete and dense vegetative cover. Soil from the frost protection layer may be used as a part of the vegetative layer. Comparable materials and/or thicknesses for the soil barrier layer, the granular drainage layer, and the soil vegetative layer may be used if approved by the Director.		

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		SOLID WASTE DISPOSAL (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-11 (H)(5)(b)	Final Closure of Landfill Facilities	A notation must be recorded on the deed to the sanitary landfill facility property, or on some other instrument which is normally examined during title search, that will in perpetuity notify any potential purchaser of the property that the land has been used as a sanitary landfill facility. The notation shall include information describing acreage, exact location, depth, volume, and nature of the solid waste deposited in the sanitary landfill facility.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-14 (A)(1), (2)	Sanitary Landfill Post-Closure Care	Following completion of final closure activities in accordance with rule 3745-27-11 of the OAC, post-closure care activities shall be conducted at the sanitary landfill facility for a minimum of 30 years. Post-closure care activities for all sanitary landfill facilities shall include, but are not limited to: • continuing operation and maintenance of the leachate management system, the surface water management system, any explosive gas extraction and/or control system, any explosive gas monitoring system, and the groundwater monitoring system • maintaining the integrity and effectiveness of the cap system, including making repairs to the cap system as necessary to correct the effects of settling, dead vegetation, subsidence, erosion, leachate outbreaks, or other events, and preventing run-on and run-off from eroding or otherwise damaging the cap system	Applicable	
EPA Criteria for Municipal Solid Waste Landfills 40 CFR §258.61	Post-Closure Care	The Director of Ohio EPA may allow the owner or operator to stop managing leachate if the owner or operator demonstrates that leachate no longer poses a threat to human health and the environment.	Relevant and Appropriate	

000337

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
INFECTIOUS WASTE MANAGEMENT				
Ohio Solid and Hazardous Waste Regulations ORC 3734.03	Open Burning or Dumping	No person shall dispose of treated or untreated infectious wastes by open burning or open dumping.	Applicable	
Ohio Infectious Waste Regulations OAC 3745-27-34 (B) and (C)	Packaging of Infectious Wastes	Sharps shall be packaged in a "SHARPS" container that is rigid, puncture resistant, leak resistant, and closed tightly. The container shall be labeled "SHARPS" and, if the waste has not been treated, with the international biohazard symbol. Containers holding infectious wastes shall not be dropped, managed, or transferred in such a manner as to cause damage to the bag or container. Infectious wastes shall not be transferred through the use of chutes.	Applicable	
Ohio Infectious Waste Regulations OAC 3745-27-31 OAC 3745-27-33 Ohio Solid and Hazardous Waste Regulations ORC 3734.021 (A)(2), (B),(D) ORC 3734.022	Transportation of Infectious Waste	Any person who transports infectious wastes off the premises where they were generated must follow the requirements outlined in these rules.	Applicable	
POLYCHLORINATED BIPHENYL (PCB) DISPOSAL				
PCB Manufacturing, Processing, Distribution, and Use Prohibitions 40 CFR §761.3	Excluded PCB Materials	PCB materials which appear at concentrations less than 50 ppm are excluded from the following PCB disposal requirements.	Relevant and Appropriate	
PCB Manufacturing, Processing, Distribution, and Use Prohibitions 40 CFR §761.60 (a)(3)	Liquid PCB Disposal Requirements	Liquids, other than mineral oil dielectric fluid, containing a PCB concentration of 50 ppm or greater, but less than 500 ppm, shall be disposed of: • in an incinerator which complies with 40 CFR §761.70	Relevant and Appropriate	

000238

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
POLYCHLORINATED BIPHENYL (PCB) DISPOSAL (continued)				
PCB Manufacturing, Processing, Distribution, and Use Prohibitions 40 CFR §761.60 (a)(3) (continued)	Liquid PCB Disposal Requirements	• in a chemical waste landfill which complies with 40 CFR §761.75 if information is provided to the owner or operator of the landfill that shows that the waste does not exceed 500 ppm PCB and is not an ignitable waste • in a high efficiency boiler provided that the requirements of this section are met • in a facility that is approved in accordance with 40 CFR §761.60(e)	Relevant and Appropriate	
PCB Manufacturing, Processing, Distribution, and Use Prohibitions 40 CFR §761.60 (a)(4)	Non-Liquid PCB Disposal Requirements	Any non-liquid PCBs at concentrations of 50 ppm or greater in the form of contaminated soil, rags, or other debris shall be disposed of: • in an incinerator which complies with §761.70, or • in a chemical waste landfill which complies with §761.75.	Relevant and Appropriate	
ASBESTOS MANAGEMENT AND DISPOSAL				
Ohio Asbestos Handling Regulations OAC 3745-20-05 (C)	Asbestos Packaging	Each owner or operator of any demolition or renovation operation to whom this rule applies shall seal all friable asbestos-containing waste material into durable leak-tight disposal containers or use an approved alternative disposal system in accordance with the following: • Asbestos containing waste materials shall be sealed in plastic bags having a thickness of at least 0.006 inches (6 mils). A second clean, leak-tight plastic bag having a thickness of at least 6 mils shall fully contain the first bag	Applicable	

000239

TABLE B-2
(Continued)

Citation	Action	Requirement	Determination	Remarks
		ASBESTOS MANAGEMENT AND DISPOSAL (continued)		
Ohio Asbestos Handling Regulations OAC 3745-20-05 (C) (continued)	Asbestos Packaging	• Whenever necessary to prevent any asbestos-containing waste material from penetrating a container, the materials shall be sealed into a combination of a 6 mil plastic bag and a leak-tight steel, plastic, or fiber drum, or reinforced disposal box, leak-tight polypropylene woven fabric bag, or similar suitable and durable container. Drums shall be fitted with a matching lid and lock-rims and boxes shall be banded and sealed with reinforced tape or in accordance with manufacturers' recommendations. • Facility components coated with, covered or containing friable asbestos materials and removed in units or sections shall be sealed with at least 0.012 inched (12 mils) of leak-tight plastic or at least 0.010 inches (10 mils) of leak-tight polypropylene woven fabric. • Asbestos containing waste materials, facility components, and contaminated debris may be disposed of using an alternate disposal system which has received the prior written approval of the Director.	Applicable	
National Emission Standard for Asbestos 40 CFR §61.151 (a) Ohio Asbestos Handling Regulations OAC 3745-20-07 (A),(C)	Inactive Asbestos Waste Disposal Sites	Each owner or operator of an inactive asbestos waste disposal site shall do one of the following: • discharge no visible emissions from an inactive waste disposal site; • cover the asbestos-containing waste material with at least 6 inches of compacted nonasbestos-containing material and grow and maintain a cover of vegetation on the area adequate to prevent exposure of the asbestos-containing waste material; or • cover the asbestos-containing waste material with at least 2 feet of compacted nonasbestos-containing material, and maintain the cover to prevent exposure of the asbestos-containing waste material. The owner or operator may use an alternative control method that has received prior approval of the Administrator.	Federal Relevant and Appropriate, Ohio Applicable	The Federal requirement is relevant and appropriate because it specifically applies to a type of facility that is not found in Operable Unit 2. The Ohio requirement is generally applicable to any inactive asbestos waste disposal site.

000240

TABLE B-3
RADIOLOGICAL ACTION-SPECIFIC REQUIREMENTS

Citation	Action	Requirement	Determination	Remarks
		DEFINITIONS		
Atomic Energy Act 42 U.S.C. §2014 (e)(2), (ee) Nuclear Waste Policy Act 42 U.S.C. §10101 (12), (16),(23)	Definition	The term low-level waste means radioactive material that is not: • high-level radioactive waste, the highly radioactive material resulting from the reprocessing of spent nuclear fuel, including liquid waste produced directly in reprocessing and any solid material derived from such liquid waste that contains fission products in sufficient concentrations. • spent nuclear fuel, fuel that has been withdrawn from a nuclear reactor following irradiation, the constituent elements of which have not been separated by reprocessing. • transuranic waste, material contaminated with elements that have an atomic number greater than 92, including neptunium, plutonium, americium, and curium, and that are in concentrations greater than 10 nanocuries per gram. • byproduct material, the tailings or wastes produced by the extraction or concentration of uranium or thorium from any ore processed primarily for its source material content.	Applicable	
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter IV	Definition	Residual radioactive material is defined as: • residual concentrations of radionuclides in soil (soil is defined as unconsolidated earth material, including rubble and debris that might be present in the earth material); • concentrations of airborne radon decay products; • external gamma radiation; • surface contamination; and • radionuclide concentrations in air or water resulting from, or associated with, any of the above.	TBC	

TABLE B-3
(Continued)

Citation	Action	Requirement	Determination	Remarks
		DEFINITIONS (continued)		
Radioactive Waste Management DOE Order 5820.2A Chapter III (3)(i)(6) Attachment 2 (1)	Definition	Radioactive material that is below regulatory concern is a definable amount of low-level waste that can be deregulated with minimal risk to the public. Waste containing amounts of radionuclides below regulatory concern, as defined by Federal regulations, may be disposed without regard to radioactivity content.	TBC	
		DOE ALARA POLICY		
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter I (4) and Chapter II (2)	As Low As Reasonably Achievable (ALARA) Process	The order adopts the ALARA process in planning and carrying out all DOE activities. ALARA requires judgement with respect to what is reasonably achievable. Factors that relate to societal, technological, economic, and other public policy considerations shall be evaluated to the extent practicable. Factors to be considered, at a minimum, shall include: • maximum dose to members of the public; • collective dose to the population; • alternative processes, such as alternative treatment of discharge streams, operating methods, or controls; • doses for each process alternative; • cost for each of the technological alternatives; • examination of the changes in cost among alternatives; and • changes in societal impact associated with process alternatives (e.g., differential doses from various pathways).	TBC	

TABLE B-3
(Continued)

Citation	Action	Requirement	Determination	Remarks
		DOE ALARA POLICY (continued)		
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter I (4) and Chapter II (2) (continued)	As Low As Reasonably Achievable (ALARA) Process	Except for meeting requirements of NEPA, qualitative analyses are acceptable, in most instances, for ALARA judgements, especially when the potential doses are well below the dose limit. The bases for these judgements should be documented. More detailed analyses should be considered if the decision might result in doses that approach the limit.	TBC	
		GENERAL RADIOACTIVE MATERIALS DISPOSAL REQUIREMENTS		
Radiation Protection of the Public and the Environment DOE Order 5400. 5 Chapter II (3)(b)	Discharges of Liquid Waste to Aquifers and Phaseout of Soil Columns	New or increased discharges of radionuclides in liquid waste to active soil columns and virgin soil columns is prohibited.	TBC	
		MANAGEMENT OF LOW-LEVEL RADIOACTIVE WASTE		
Radioactive Waste Management DOE Order 5820.2A Chapter III (3)(a)	Performance Objectives of Low-Level Radioactive Waste Management	DOE low-level radioactive waste shall be managed to accomplish the following performance objectives: • protection of public health and safety; • protection of the public and the environment from releases of radioactivity (see chemical-specific requirements for radioactive dose limitations); and • protection of groundwater resources, consistent with Federal, State, and local requirements.	TBC	
Radioactive Waste Management DOE Order 5820.2A Chapter III (3)(c)	Low-Level Radioactive Waste Generation	Technical and administrative controls shall be directed to reducing the gross volume of waste generated and/or the amount of radioactivity requiring disposal. Waste reduction efforts shall include consideration of process modification, process optimization, materials substitution, and decontamination.	TBC	

TABLE B-3
(Continued)

Citation	Action	Requirement	Determination	Remarks
MANAGEMENT OF LOW-LEVEL RADIOACTIVE WASTE (continued)				
Radioactive Waste Management DOE Order 5820.2A Chapter III (3)(c) (continued)	Low-Level Radioactive Waste Generation	All DOE low-level waste generators shall establish auditable programs to assure that the amount of low-level waste generated and/or shipped for disposal is minimized. Each DOE low-level waste generator shall separate uncontaminated waste from low-level waste to facilitate cost effective treatment and disposal. Each DOE low-level waste generator preparing a design for a new process or process change shall incorporate principles into the design that will minimize the generation of low-level waste.	TBC	
Radioactive Waste Management DOE Order 5820.2A Chapter III (3)(d)	Waste Characterization	Low-level waste shall be characterized with sufficient accuracy to permit proper segregation, treatment, storage, and disposal. This characterization shall ensure that, upon generation after processing, the actual physical and chemical characteristics and major radionuclide content are recorded and known during all stages of the waste management process. Waste characterization data shall be recorded on a waste manifest and shall include: • the physical and chemical characteristics of the waste; • volume of the waste (total of waste and any solidification or absorbent media); • weight of the waste (total of waste and any solidification or absorbent media); • major radionuclides and their concentrations; and • packaging date, package weight, and external volume.	TBC	

000744

TABLE B-3
(Continued)

Citation	Action	Requirement	Determination	Remarks
MANAGEMENT OF LOW-LEVEL RADIOACTIVE WASTE (continued)				
Radioactive Waste Management DOE Order 5820.2A Chapter III (3)(f)	Waste Treatment	Waste shall be treated by appropriate methods so that the disposal site can meet the performance objectives stated above. Waste treatment techniques such as incineration, shredding, and compaction to reduce volume and provide more stable waste forms shall be implemented as necessary to meet performance requirements. Use of waste treatment techniques to increase the life of the disposal facility and improve long-term facility performance, by improved site stability and reduction of infiltrating water, is required to the extent it is cost effective. The development of large scale waste treatment facilities shall be supported by the appropriate National Environmental Policy Act documentation. Operation of waste treatment facilities shall be supported by adequate documentation.	TBC	
Radioactive Waste Management DOE Order 5820.2A Chapter III (3)(g)	Waste Shipment	The volume of waste and number of shipments of low-level wastes shall be minimized and the shipments will be conducted based on plans developed by field organizations. Generators shall provide an annual forecast in the third quarter of the fiscal year to the field organizations managing the off-site disposal facility to which the waste is to be shipped. Generators must receive advance approval from the receiving facility and shall certify prior to shipment that waste meets the receiving facility waste acceptance criteria. The certification program shall be auditable and able to withstand independent review.	TBC	
Radioactive Waste Management DOE Order 5820.2A Chapter III (3)(i)(1)-(6)	Waste Disposal	Low-level waste shall be disposed of by methods appropriate to achieve the performance objectives stated in paragraph 3a (listed above), consistent with the radiation dose limits in paragraph 3b (see chemical-specific requirements).	TBC	

TABLE B-3
(Continued)

Citation	Action	Requirement	Determination	Remarks
MANAGEMENT OF LOW-LEVEL RADIOACTIVE WASTE (continued)				
Radioactive Waste Management DOE Order 5820.2A Chapter III (3)(i)(1)-(6) (continued)	Waste Disposal	Engineered modifications (stabilization, packaging, burial depth, barriers) for specific waste types and for specific waste compositions for each disposal site shall be developed to achieve the performance objectives. Site specific waste classification limits may be developed if operationally useful in determining how specific wastes should be stabilized and packaged for disposal. Disposition of waste designated as greater than class C, as defined in 10 CFR §61.55, must be handled as a special case. Disposal systems for such waste must be justified by a specific performance assessment through the NEPA process and with the concurrence of DOE headquarters. The following are additional disposal requirements intended either to improve stability of the disposal site or to facilitate handling and provide protection of the health and safety of personnel at the disposal site: • Waste must not be packaged for disposal in cardboard or fiberboard boxes, unless such boxes meet DOT requirements and contain stabilized waste with a minimum of void space. For all types of containers, void spaces within the waste and between the waste and its packaging shall be reduced as much as practical. • Liquid wastes, or wastes containing free liquid, must be converted into a form that contains as little freestanding and noncorrosive liquid as is reasonable achievable, but, in no case, shall the liquid exceed 1 percent of the volume of the waste when the waste is in a disposal container, or 0.5 percent of the volume of the waste processed to a stable form. • Waste must not be readily capable of detonation or of explosive decomposition or reaction at normal pressures and temperatures, or of explosive reaction with water.	TBC	

000246

TABLE B-3
(Continued)

Citation	Action	Requirement	Determination	Remarks
MANAGEMENT OF LOW-LEVEL RADIOACTIVE WASTE (continued)				
Radioactive Waste Management DOE Order 5820.2A Chapter III (3)(i)(1)-(6) (continued)	Waste Disposal	• Waste must not contain, or be capable of generating quantities of toxic gases, vapors, or fumes harmful to persons transporting, handling, or disposing of the waste. This does not apply to radioactive gaseous waste packaged as identified in the next requirement. • Waste in a gaseous form must be packaged at a pressure that does not exceed 1.5 atmospheres at 20°C. • Waste must not be pyrophoric. Pyrophoric materials contained in waste shall be treated, prepared, and packaged to be nonflammable.	TBC	
Radioactive Waste Management DOE Order 5820.2A Chapter III (3)(i)(8)	Disposal Facility and Disposal Site Design	Design criteria shall be established prior to selection of new disposal facilities, new disposal sites, or both. These design criteria shall be based on analyses of physiographic, environmental, and hydrogeological data to assure that the policy and requirements of this Order can be met. The criteria shall be also based on assessments of projected waste volumes, waste characteristics, and facility and disposal site performance. Disposal units will be designed consistent with disposal site hydrology, geology, and waste characteristics and in accordance with NEPA.	TBC	
Radioactive Waste Management DOE Order 5820.2A Chapter III (3)(i)(9)	Disposal Facility Operations	Operating procedures for low-level waste disposal facilities shall be developed so that they: • protect the environment, health and safety of the public, and facility personnel; • ensure the security of the facility; • minimize the need for long-term control; and • meet the requirements of the closure/post-closure plan. Permanent identification markers for disposal excavations and monitoring wells shall be emplaced.	TBC	

000647

TABLE B-3
(Continued)

Citation	Action	Requirement	Determination	Remarks
MANAGEMENT OF LOW-LEVEL RADIOACTIVE WASTE (continued)				
Radioactive Waste Management DOE Order 5820.2A Chapter III (3)(i)(9) (continued)	Disposal Facility Operations	Operating procedures shall include training for disposal facility operating personnel, emergency response plans, and a system of reporting unusual occurrences to DOE. Waste placement into disposal units should minimize voids between containers. Operations are to be conducted so that active waste disposal operations will not have an adverse effect on filled disposal units.	TBC	
Radioactive Waste Management DOE Order 5820.2A Chapter III (3)(j)	Disposal Site Closure/Post Closure	Site-specific comprehensive closure plans shall be developed for new and existing operating low-level waste disposal sites. The plan shall address closure of disposal sites within a 5-year period after each is filled and shall conform to the requirements of the NEPA process. Performance objectives for existing disposal sites shall be developed on a case-by-case basis as part of the NEPA process. During closure and post closure, residual radioactivity levels for surface soils shall comply with existing DOE decommissioning guidelines. Corrective measures shall be applied to new disposal sites or individual disposal units if conditions occur or are forecasted that could jeopardize attainment of the performance objectives of this Order. Inactive disposal facilities, disposal sites, and disposal units shall be managed in conformance with RCRA, CERCLA, and the Superfund Amendments and Reauthorization Act (SARA). Closure plans for new and existing operating low-level waste disposal facilities shall be reviewed and approved by the appropriate field organization.	TBC	

000748

TABLE B-3
(Continued)

Citation	Action	Requirement	Determination	Remarks
MANAGEMENT OF LOW-LEVEL RADIOACTIVE WASTE (continued)				
Radioactive Waste Management DOE Order 5820.2A Chapter III (3)(j) (continued)	Disposal Site Closure/Post Closure	Termination of monitoring and maintenance activity at closed facilities or sites shall be based on an analysis of site performance at the end of the institutional control period.	TBC	
Radioactive Waste Management DOE Order 5820.2A Chapter III (3)(k)	Environmental Monitoring	Each low-level waste treatment, storage, and disposal facility shall be monitored by an environmental monitoring program that, at a minimum, meets the following requirements: • The program shall be designed to measure: - operational effluent releases; - migration of radionuclides; - disposal unit subsidence; and - change in disposal facility and disposal site parameters which may affect long-term site performance. • Based on the characteristics of the facility being monitored, the program may include, but not necessarily be limited to, monitoring surface soil, air, surface water, and, in the subsurface, soil and water, both in the saturated and the unsaturated zones. • The monitoring program shall be capable of detecting changing trends in performance sufficiently in advance to allow application of any necessary corrective action prior to exceeding performance objectives. The monitoring program shall be able to ascertain whether or not effluents from each treatment, storage, or disposal facility or disposal site meet the requirements of applicable EH Orders.	TBC	

000740

TABLE B-3
(Continued)

Citation	Action	Requirement	Determination	Remarks
		LOW-LEVEL RADIOACTIVE WASTE CONFINEMENT		
General Design Criteria DOE Order 6430.1A 1323-5.3	Low-Level Radioactive Liquid Waste Confinement	The following shall be applicable to the low-level radioactive liquid waste confinement system: • A dike or berm around the process shall provide secondary confinement. • A tertiary confinement system is not required. • Process and waste storage vessel shall be vented through appropriate treatment systems that control the release of radioactive material in gaseous effluents. • Retention basins shall comply with DOE 5400.1 and shall be lined, fenced, and posted with appropriate radiation warning signs. A system for monitoring radionuclide migration from the basin shall be available. • An impervious berm or dike shall be capable of retaining the maximum radioactive liquid waste inventory that may be releases by a leak or failure of a primary confinement vessel. A capability shall exist to transfer waste that has leaked into the secondary confinement.	TBC	
General Design Criteria DOE Order 6430.1A 1324-5.3	Low-Level Solid Waste Confinement	Low-level solid waste that is disposed to the ground shall be confined by a site-specific system of barriers that may include, but not necessarily be limited to, waste form, waste packaging, and the geologic setting. When site permeability characteristics do not provide the required confinement capabilities, the confinement system shall be augmented by the following: • constructing low permeability walls around the low-level waste; • lining the walls and bottom of the excavated area with low permeability material; and • other suitable methods for reducing permeability.	TBC	

000750

TABLE B-3
(Continued)

Citation	Action	Requirement	Determination	Remarks
		LOW-LEVEL RADIOACTIVE WASTE CONFINEMENT (continued)		
General Design Criteria DOE Order 6430.1A 1324-5.3 (continued)	Low-Level Solid Waste Confinement	Means shall be provided to minimize contact of emplaced low-level waste with water. Active water control measures shall not be required following permanent closure. Typical requirements for water control are as follows: • placing a layer of highly permeable material beneath the low-level waste to channel any percolating water to a sump; • mounding the soil surface to facilitate surface water runoff; • use of a suitable low-permeability cover material (e.g., clay) over the disposal area to prevent contact of the waste by infiltrating rainwater. This cover material shall be protected by a layer of overburden (e.g., sand, gravel, top soil). • a site diversion system for surface water runoff during operation of the facility; • temporary protective covers (e.g., tarpaulin) before the completion of the natural in-place soil barrier over the low-level waste; • revegetation of the overburden layer; and • other suitable and reliable means for minimizing water contact with low-level waste.	TBC	
General Design Criteria DOE Order 6430.1A 1324-6	Radioactive Solid Waste Confinement Systems	The following requirements outline the confinement system for radioactive solid waste: • Primary confinement consists of process systems equipment and its associated ventilation and off-gas system, storage containers, or other waste and site-specific engineered barriers.	TBC	

000254

TABLE B-3
(Continued)

Citation	Action	Requirement	Determination	Remarks
		LOW-LEVEL RADIOACTIVE WASTE CONFINEMENT (continued)		
General Design Criteria DOE Order 6430.1A 1324-6 (continued)	Radioactive Solid Waste Confinement Systems	• Secondary confinement consists of process cell barriers and the ventilation systems associated with the cells or building, or a large storage building or structure. In some cases, a drum, cask, or other waste and site-specific engineered barrier shall provide secondary confinement. • The natural geologic setting composes the tertiary confinement system. In addition, the tertiary confinement system shall meet the following performance objectives: • Following permanent closure, on-going site maintenance shall not be needed. • In the absence of unplanned natural processes or human contact with a low-level waste disposal facility, calculated contaminant levels in groundwater at the site boundary shall not exceed the maximum contaminant levels (MCLs) established pursuant to the Safe Drinking Water Act (see chemical-specific requirements). • In the event of human-induced activities following permanent closure, or reasonably foreseeable but unplanned natural processes, the guidelines of DOE Order 6430.1A, Section 1300-1.4.2, Accidental Releases, shall not be violated. Institutional controls may be relied on for a limited time following closure. For the purposes of calculation, these controls shall not be relied on for more than 100 years following permanent closure.	TBC	

000232

TABLE B-3
(Continued)

Citation	Action	Requirement	Determination	Remarks
CONTROL OF URANIUM AND THORIUM BYPRODUCT MATERIAL				
Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings 40 CFR §192.02 (a) Subpart A	Control of Residual Radioactive Materials	Controls of residual radioactive materials from inactive uranium processing sites shall be designed to be effective for up to 1,000 years, to the extent reasonably achievable, and in any case, for at least 200 years.	Relevant and Appropriate	
Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings 40 CFR §192.20 Subpart C	Implementation	Reasonable assurance to show compliance with 40 CFR §192.02 (Subpart A) standards should be done through the use of analytical models and site-specific analyses.	Relevant and Appropriate	
Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings 40 CFR §192.32 (b)(1)(i) Subpart D	Management of Uranium Byproduct Material	Disposal areas for the management of uranium byproduct materials after closure shall each comply with the closure performance standard in 40 CFR §264.111 with respect to nonradiological hazards and shall be designed to provide reasonable assurance of control of radiological hazards to be effective for 1,000 years, to the extent reasonable, and, in any case, for at least 200 years	Relevant and Appropriate	
Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings 40 CFR §§ 192.40-192.42 Subpart E	Management of Thorium Byproduct Material	The provisions for the management of uranium byproduct material (40 CFR §192.32) shall apply to thorium byproduct material and provisions applicable to the element uranium shall also apply to the element thorium	Relevant and Appropriate	
MANAGEMENT OF RESIDUAL RADIOACTIVE MATERIAL				
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter II (5)	Release of Property	Real property (land and structures), personal property, materials, and equipment shall be released if the concentration of radioactivity is within the limits of residual radioactive contamination.	TBC	

000753

TABLE B-3
(Continued)

Citation	Action	Requirement	Determination	Remarks
MANAGEMENT OF RESIDUAL RADIOACTIVE MATERIAL (continued)				
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter IV (6)	Control of Residual Radioactive Material Above the Guidelines	Residual radioactive material with concentrations above the generic guidelines (see chemical-specific requirements) shall be managed in accordance with Chapter II, Requirements for Radiation Protection of the Public and the Environment, and operational and control requirements.	TBC	
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter IV (6)(b)	Interim Storage of Residual Radioactive Material	Control and stabilization features of an interim storage facility for residual radioactive material shall be designed to provide to the extent reasonably achievable, an effective life of 50 years with a minimum life of at least 25 years. Access to a property and use of on-site material contaminated by residual radioactive material should be controlled through appropriate administrative and physical controls. These control features should be designed to provide, to the extent reasonable, an effective life of at least 25 years.	TBC	
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter IV (6)(c)	Interim Management of Residual Radioactive Material	A property may be maintained under an interim management arrangement when residual radioactive material exceeds guideline values if the residual radioactive material is in inaccessible locations and would be unreasonably costly to remove, provided that administrative controls are established.	TBC	
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter IV (6)(d)	Long-Term Management of Residual Radioactive Material	To properly manage uranium, thorium, and their decay products, access to a property and use of on-site materials contaminated by residual radioactive material should be controlled through appropriate administrative and physical controls such as those described in 40 CFR 192. These controls should be designed to be effective to the extent reasonable for at least 200 years.	TBC	
Radiation Protection of the Public and the Environment DOE Order 5400.5 Chapter IV (7)	Supplemental Limits and Exceptions for Residual Radioactive Material	If special specific property circumstances indicate that the concentration guidelines or authorized limits are not appropriate, supplemental limits or an exception may be requested to those guidelines or limits.	TBC	

6645

TABLE B-4
OTHER ACTION-SPECIFIC REQUIREMENTS

Citation	Action	Requirement	Determination	Remarks
		AIR POLLUTION CONTROL		
Ohio General Provisions on Air Pollution Control OAC 3745-15-07 ORC 3704.01-.05	Prevention of Air Pollution Nuisance	Measures shall be taken to adopt and maintain a program for the prevention, control, and abatement of air pollution in order to protect and enhance the quality of the state's air resource so as to promote the public health, welfare, and economic vitality of the people of the state. The emission or escape into open air from any source whatsoever of smoke, ashes, dust, dirt, grime, acids, fumes, gases, vapors, odors, and combinations of the above in such a manner or in such amounts as to endanger the health, safety, or welfare of the public or to cause unreasonable injury or damage to property shall be declared to be a public nuisance. It is unlawful for any person to cause, permit, or maintain any such public nuisance.	Applicable	
Ohio Particulate Matter Standards OAC 3745-17-07	Control of Visible Particulate Emissions from Stationary Sources	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average. Transient exceedance limits are included in this regulation.	Applicable	
Ohio Emissions of Particulate Matter OAC 3745-17-07(B)(5), (6)	Control of Visible Particulate Emissions	There shall be no visible particulate emissions from any unpaved roadway, parking area, or material storage piles except for a period of time not to exceed thirteen minutes during any sixty-minute observation period.	Applicable	
Ohio Emissions of Particulate Matter OAC 3745-17-08	Restriction of Emission of Fugitive Dust	No person shall cause or permit any fugitive dust source to be operated; or any materials to be handled, transported or stored; or a building or its appurtenances or a road to be used constructed, altered, repaired or demolished without taking or installing reasonably available control measures to prevent fugitive dust from becoming airborne. Such reasonably available control measure shall include, but not be limited to, one or more of the following which are appropriate to minimize or eliminate visible particulate emissions of fugitive dust:	Relevant and Appropriate	This requirement is applicable only to certain cities in Butler and Hamilton Counties.

TABLE B-4
(Continued)

Citation	Action	Requirement	Determination	Remarks
		AIR POLLUTION CONTROL (continued)		
Ohio Emissions of Particulate Matter OAC 3745-17-08 (continued)	Restriction of Emission of Fugitive Dust	• the use of water or other suitable dust suppression chemicals for the control of fugitive dust from the demolition of existing buildings or structures, construction operations, the grading or roads or the clearing of land; or • the periodic application of asphalt, oil, water, or other suitable dust suppression chemicals on dirt or gravel roads and parking lots, and any other surfaces which cause emissions of fugitive dust.	Relevant and Appropriate	
		WATER POLLUTION CONTROL		
National Pollutant Discharge Elimination System 40 CFR §122.26 (a)(1)(ii) 40 CFR §122.26 (b)(14)(v),(x)	Storm Water Discharge Associated with Industrial Activity	A discharge composed entirely of storm water associated with industrial activity is required to obtain a NPDES permit. These categories of facilities are considered to be engaging in "industrial activity": • landfills, land application sites, and open dumps that receive or have received any industrial wastes (waste that is received from any of the facilities described under this subsection) including those that are subject to regulation under subtitle D of RCRA; and • construction activity including clearing, grading, and excavation activities that disturbs 5 acres or more of total land area.	Applicable	Engineering controls will be implemented to monitor and control stormwater runoff during removal, treatment, and disposal of Operable Unit 2 material.
Clean Water Act §404 (33 U.S.C. §1344) Guidelines for Specifications of Disposal Sites for Dredged or Fill Material 40 CFR §230.10	Discharge of Dredged or Fill Material	No discharge of dredged or fill material shall be permitted: • if there is a practicable alternative to the proposed discharge which would have less adverse impact on the aquatic ecosystem, so long as, the alternative does not have other significant adverse environmental consequences.	Applicable	

000250

TABLE B-4
(Continued)

Citation	Action	Requirement	Determination	Remarks
		WATER POLLUTION CONTROL (continued)		
Clean Water Act §404 (33 U.S.C. §1344) Guidelines for Specifications of Disposal Sites for Dredged or Fill Material 40 CFR §230.10 (continued)	Discharge of Dredged or Fill Material	• unless appropriate and practicable steps have been taken which will minimize potential adverse impacts of the discharge on the aquatic ecosystem. No discharge of dredged or fill material shall be permitted if it: • causes or contributes, after consideration of disposal site dilution and dispersion, to violations of any applicable state water quality standard. • violates any applicable toxic effluent standard or prohibition under section 307 of the Clean Water Act. • jeopardizes the continued existence of species listed as endangered or threatened under the Endangered Species Act of 1973, as amended, or results in likelihood of the destruction or adverse modification or a habitat which is determined to be a critical habitat under the Endangered Species Act of 1973, as amended.	Applicable	
Clean Water Act Nationwide Permit Program 33 U.S.C. §1341(a)(1),(d) 33 CFR §330.1 (c)	Nationwide Permits - Terms and Conditions	An activity is authorized under an NWP only if that activity and the permittee satisfy all of the following NWPs terms and conditions. Potentially applicable NWPs include: • Nationwide Permit #26 - Headwaters and Isolated Waters Discharges - The discharge does not cause the loss of more than 10 acres of waters of the United States. - The permittee notifies the district engineer if the discharge would cause the loss of waters of the United States greater than one acre. - For discharges in special aquatic sites, including wetlands, the notification must also include a delineation of affected special aquatic sites, including wetlands.	Applicable	In a January 17, 1992 letter to the U.S. Army Corps of Engineers, OEPA conditionally certified that projects authorized by these Nationwide Permits will comply with the applicable provisions of the Federal Water Pollution Control Act.

TABLE B-4
(Continued)

Citation	Action	Requirement	Determination	Remarks
		WATER POLLUTION CONTROL (continued)		
Clean Water Act Nationwide Permit Program 33 U.S.C. §1341(a)(1),(d) 33 CFR §330.1 (c) (continued)	Nationwide Permits - Terms and Conditions	- The discharge, including all attendant features, both temporary and permanent, is part of a single and complete project. • Nationwide Permit #38 - Cleanup of Hazardous and Toxic Waste - This permit authorizes specific activities required to effect the containments, stabilization or removal of hazardous or toxic waste materials that are performed ordered, or sponsored by a government agency with established legal or regulatory authority provided the permittee notifies the district engineer. - For discharges in special aquatic sites, including wetlands, the notification must also include a delineation of affected special aquatic sites, including wetlands. - This nationwide permit does not authorize the establishment of new disposal sites or the expansion of existing sites used for the disposal of hazardous or toxic waste.	Applicable	
Clean Water Act Nationwide Permit Program 33 CFR §330.4 (c)(1) Ohio Section 401 Water Quality Certifications OAC 3745-32	Nationwide Permits - Terms and Conditions	State 401 water quality certification pursuant to section 401 of the Clean Water Act, or waiver thereof, is required prior to the issuance or reissuance of individual or nationwide permits authorizing activities which may result in a discharge into waters of the United States	Applicable	
Clean Water Act General Regulatory Policies 33 CFR §323.3	Permits for Discharges of Dredged or Fill Material	Permits will be required for the discharge of dredged or fill material into waters of the United States including wetlands. Certain discharges specified in 33 CFR Part 330 are permitted by that regulation (nationwide permits).	Applicable	

000758

6645

TABLE B-4
(Continued)

Citation	Action	Requirement	Determination	Remarks
		WATER POLLUTION CONTROL (continued)		
Clean Water Act General Regulatory Policies 33 CFR §323.3 (continued)	Permits for Discharges of Dredged or Fill Material	If a discharge of dredged or fill material is not permitted by 33 CFR Part 330 (Nationwide Permits), an individual section 404 permit will be required for the discharge of dredged or fill material into waters of the United States. Discharges of dredged or fill material into waters of the United States done by or on behalf of any Federal agency, other than the Corps of Engineers, are subject to the authorization procedures of these regulations.	Applicable	
Ohio Water Pollution Control Regulations ORC 6111.04	Acts of Pollution Prohibited	No person shall cause pollution or place or cause to be placed any sewage, industrial waste, or other wastes in a location where they cause pollution of any waters of the state. No person to whom a permit has been issued shall place or discharge, or cause to be placed or discharged, in any waters of the state any sewage, industrial waste, or other wastes in excess of the permissive discharges specified under such existing permit without first receiving a permit from the Director to do so.	Applicable	

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TABLE B-5
LOCATION-SPECIFIC REQUIREMENTS

Citation	Location	Requirement	Determination	Remarks
THREATENED AND ENDANGERED SPECIES PROTECTION				
Procedures for Implementing the National Environmental Policy Act 40 CFR §6.302(h) Endangered and Threatened Wildlife and Plants 50 CFR §17.21,§17.94 Interagency Cooperation-Endangered Species Act 50 CFR §402.01	Endangered Species and Critical Habitat	All Federal agencies must insure that any action authorized, funded, or carried out by them is not likely to jeopardize the continued existence of any listed species or result in the destruction or adverse modification of the constituent elements essential to the conservation of a listed species within a defined critical habitat.	Applicable	A baseline ecological survey, conducted by Miami University, found no federally-listed endangered species at the Fernald property. However, the study did locate individuals of two state-listed endangered plants (slender fingergrass [*Digitaria filiformis*] and mountain bindweed [*Polygonum cilinode*]), and one state-listed threatened invertebrate (Sloan's crayfish [*Orconectes sloanii*]). In 1993 and 1994, surveys have verified the presence of the Sloan's crayfish in Paddys Run. Surveys were conducted in 1993 for the state-listed endangered cave salamander [*Eurycea lucifuga*]. Additional studies by ASI and consultation with the Ohio Department of Natural Resources have also identified suitable habitat for two federally-listed endangered species (Indiana bat [*Myotis sodalis*] and running buffalo clover [*Trifolium stoloniferum*]) on the Fernald property.
Interagency Cooperation-Endangered Species Act 50 CFR §402.12 (a),(b)	Biological Assessment	A biological assessment shall evaluate the potential effects of the action on listed and proposed critical habitat and determine whether any such species or habitat are likely to be adversely affected by the action and is used in determining whether formal consultation or a conference is necessary. These procedures are required for Federal actions that are "major construction activities".	Applicable	
Ohio Endangered Species Regulations ORC 1531.25	Endangered Animal Species	No person shall take or possess any native species of wild animal, or any eggs or offspring thereof, that is threatened with state-wide extinction.	Applicable	See first remark.

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TABLE B-5
(Continued)

Citation	Location	Requirement	Determination	Remarks
THREATENED AND ENDANGERED SPECIES PROTECTION (continued)				
Ohio Endangered Species Regulations ORC 1518.02 OAC 1501:18-1	Endangered Plant Species	No person shall root up, injure, destroy, remove, or carry away on or from public highways, public property, or waters of the state, or on or from the property of another, without the written permission of the owner, lessee, or other person entitled to possession, any endangered or threatened plant listed in OAC 1501:18-1.	Applicable	See first remark.
Classification of Solid Waste Disposal Facilities and Practices 40 CFR §257.3-2	Any	Solid waste disposal facilities or practices shall not cause or contribute to the taking of any endangered or threatened species of plants, fish, or wildlife. Solid waste disposal facilities or practices shall not result in the destruction or adverse modification of the critical habitat of endangered or threatened species as identified in 50 CFR Part 17.	Applicable	See first remark.
HISTORIC AND CULTURAL RESOURCE PROTECTION				
Antiquities Act of 1906 16 U.S.C. §431	Antiquity Preservation	No person may appropriate, excavate, injure, or destroy any historic or prehistoric ruin or monument, or any object of antiquity situated or controlled by the Government of the United States.	Applicable	A survey of the Operable Unit 2 areas was performed in March 1993 and it was determined that the areas had already been sufficiently disturbed so that there would be no requirement to consult the State Historic Preservation Officer (SHPO). Any other proposed areas of disturbance for Operable Unit 2 remedial actions will be surveyed and the SHPO consulted as necessary.

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TABLE B-5
(Continued)

Citation	Location	Requirement	Determination	Remarks
HISTORIC AND CULTURAL RESOURCE PROTECTION (continued)				
Archeological Recovery Act 16 U.S.C. §408(a) Procedures for Implementing the National Environmental Policy Act 40 CFR §6.301 (c) Protection of Archaeological Resources 43 CFR §7.4(a)	Archaeological Resource Recovery and Preservation	Whenever any Federal agency finds, or is notified, in writing, by an appropriate historical or archaeological authority, that its activities in connection with any Federal construction project or federally licensed project, activity, or program may cause irreparable loss or destruction of significant scientific prehistorical, historical, or archaeological data, such agency shall notify the Secretary of the Interior, in writing, and shall provide the Secretary with appropriate information concerning the project, program, or activity. No person may excavate, remove, damage, or otherwise alter or deface or attempt to excavate, remove, damage, or otherwise alter or deface any archaeological resource located on public lands unless such activity is pursuant to a permit. If an EPA activity may cause irreparable loss or destruction of significant scientific, prehistoric, historic, or archaeological data, the responsible official or the secretary of the Interior is authorized to undertake data recovery and preservation activities.	Applicable	See above remark.
National Historic Preservation Act 16 U.S.C. §470f 16 U.S.C. §470h-2 (a)(1) National Historic Landmarks Program 36 CFR 65.2(c)(2) Procedures for Implementing the National Environmental Policy Act 40 CFR §6.301 (a),(b)	Historic Preservation	A Federal agency must take into account the effect of any undertaking on any district, site, building, structure, or object that is included in, or eligible for, inclusion in the National Register of Historic Places. The heads of all Federal agencies shall assume responsibility for the preservation of historic properties which are owned or controlled by such agency. Prior to any Federal undertaking which may directly and adversely affect any National Historic Landmark, the head of the responsible agency shall, to the extent possible, minimize the harm to such landmark.	Applicable	See above remark.

000762

TABLE B-5
(Continued)

Citation	Location	Requirement	Determination	Remarks
		FLOODPLAINS/WETLANDS PROTECTION		
Procedure for Implementing the National Environmental Policy Act 40 CFR §6.302(a) [Executive Order 11990]	Protection of Wetlands	Federal agencies conducting certain activities must avoid, to the extent possible, the adverse impacts associated with the destruction or loss of wetlands and to avoid support of new construction in wetlands when a practicable alternative exists.	Applicable	An updated site-wide delineation of Fernald wetlands, performed in accordance with the U.S. Army Corps of Engineers Wetland Delineation Manual, was completed in March 1993. Although there are wetlands located near the Lime Sludge Ponds, the Solid Waste Landfill is the only subunit with wetlands located inside the battery limits. These wetlands may be affected during the Operable Unit 2 remedial action.
Procedures for Implementing the National Environmental Policy Act 40 CFR §6.302(b) [Executive Order 11988]	Floodplain Management	Federal agencies must evaluate the potential effects of actions they may take in a floodplain to avoid, to the extent possible, adverse effects associated with direct and indirect development of a floodplain.	Applicable	An updated floodplain determination was performed for Paddys Run in October 1993 using the Army Corps of Engineers' standard HEC2 water surface profile analysis program. The 100-year flood elevations reach the western slope of the Inactive Flyash Pile and the toe of the South Field slope.
DOE Compliance with Floodplain/Wetlands Environmental Review Requirements 10 CFR §1022.3(a), (b)(1),(2),(3),(5),(6),(c), (d),(e)	Floodplain/Wetlands	DOE shall exercise leadership and take action to: • avoid to the extent possible the long- and short-term adverse impacts associated with the destruction of wetlands and the occupancy and modification of floodplains and wetlands, and avoid direct and indirect support of floodplain and wetlands development wherever there is a practicable alternative. • incorporate floodplain management goals and wetlands protection considerations into its planning, regulatory, and decision-making processes and shall to the extent practicable: - reduce the hazard and risk of flood loss.	Applicable	

TABLE B-5
(Continued)

Citation	Location	Requirement	Determination	Remarks
		FLOODPLAINS/WETLANDS PROTECTION (continued)		
DOE Compliance with Floodplain/Wetlands Environmental Review Requirements 10 CFR §1022.3(a),(b)(1),(2),(3),(5),(6),(c),(d),(e) (continued)	Floodplain/Wetlands	- minimize the impact of floods on human safety, health, and welfare. - restore and preserve natural and beneficial values served by the floodplains. - minimize the destruction, loss, or degradation of wetlands. - preserve and enhance the natural and beneficial values of wetlands • undertake a careful evaluation of the potential effects of any DOE action taken in a floodplain and any new construction undertaken by DOE in wetlands not located in a floodplain • identify, evaluate, and as appropriate, implement alternative actions which may avoid or mitigate adverse floodplain/wetlands impacts • provide opportunity for early public review of any plans or proposals for actions in floodplains and new construction in wetlands	Applicable	
DOE Compliance with Floodplain/Wetlands Environmental Review Requirements 10 CFR §1022.5(b),(h)	Floodplain/Wetlands	This part shall apply to all proposed floodplain/wetlands actions, including those sponsored jointly with other agencies, where practicable alternatives to the proposed actions are still available. The policies and procedures of this part which are applicable to floodplain actions shall apply to all proposed actions which occur in a wetlands located in a floodplain.	Applicable	
DOE Compliance with Floodplain/Wetlands Environmental Review Requirements 10 CFR §1022.11(a),(b),(c)	Floodplain/Wetlands	Concurrent with its review of a proposed action to determine appropriate NEPA requirements, DOE shall determine applicability of the floodplain management and wetlands protection requirements of this part.	Applicable	

TABLE B-5
(Continued)

Citation	Location	Requirement	Determination	Remarks
		FLOODPLAINS/WETLANDS (continued)		
DOE Compliance with Floodplain/Wetlands Environmental Review Requirements 10 CFR §1022.11(a),(b),(c) (continued)	Floodplain/Wetlands	In making a floodplain determination, DOE shall utilize the Flood Insurance Rate Maps (FIRMs) or the Flood Hazard Boundary Maps (FHBMs) prepared by the Federal Insurance Administration of the Department of Housing and Urban Development to determine if a proposed action is located in the base or critical action floodplain, as appropriate. For a proposed action in an area of predominantly Federal or State land holdings where FIRM or FHBM maps are not available, information shall be sought from the land administering agency (e.g., Bureau of Land Management, Soil Conservation Service, etc.) or from agencies with floodplain analysis expertise.	Applicable	
DOE Compliance with Floodplain/Wetlands Environmental Review Requirements 10 CFR §1022.12(a)	Floodplain/Wetlands	If DOE determines, pursuant to 10 CFR §§ 1022.5 and 1022.11, that this part is applicable to the proposed action, DOE shall prepare a floodplain/wetlands assessment, according to the requirements in this section (10 CFR §1022.12).	Applicable	
DOE Compliance with Floodplain/Wetlands Environmental Review Requirements 10 CFR §1022.15(a)	Floodplain/Wetlands	If DOE finds that no practicable alternative to locating in the floodplain/wetlands is available, consistent with the policy set forth in Executive Order 11988, DOE shall, prior to taking action, design, or modify its action in order to minimize potential harm to or within the floodplain/wetlands.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-20 (C)(2)	Floodplain	The limits of solid waste placement and the leachate management system cannot be located in a regulatory floodplain, unless deemed acceptable by the Director.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-07 (H)(4)(d)	Stream, Lake, or Wetland	The limits of waste placement cannot be located within 200 feet of a stream, lake, or natural wetland, unless deemed acceptable by the Director.	Applicable	

000293

TABLE B-5
(Continued)

Citation	Location	Requirement	Determination	Remarks
		GROUNDWATER PROTECTION		
Safe Drinking Water Act 42 U.S.C. §1424(e)	Sole Source Aquifer	All Federal financially assisted projects constructed in the area of a sole source aquifer and its principal recharge zone will be subject to EPA's review to insure that these projects are designed and constructed so that they do not create a significant hazard to public health.	Applicable	A notice in 53 FR 15876 (May 4, 1988) designated the Buried Valley Aquifer System of the Great Miami/ Little Miami River Basins of southwestern Ohio as a sole or principal source of drinking water. The Fernald site is located above this aquifer.
Ohio Solid Waste Disposal Regulations OAC 3745-27-07 (H)(3)(a)	Any	A sanitary landfill facility may not be located within the surface and subsurface areas surrounding a public water supply well through which contaminants may move toward and may reach the public water supply well within a period of 5 years.	Applicable	
OEPA Guidance on Solid Waste Siting Criteria: Minimum Distance From a Public Water Supply Well GD202.105	Any	To avoid the application of the siting criteria in OAC 3745-27-07 (B)(4): • It should be shown, using site-specific and publicly available information, that the nearest public water supply well hydrogeologically downgradient from the solid waste landfill facility is more than 5 years time of travel from the boundaries of the solid waste landfill facility. • The five year time of travel shall be calculated beginning at the facility boundary of the solid waste landfill facility closest to the public water supply well and proceeding in a hydraulically downgradient direction ending at the well screen of all public water supply wells intersected with the five year time of travel. • Many methods can be used to demonstrate compliance with this rule, from simple groundwater velocity equations to complex three-dimensional models. The demonstration should use the method best suited to the site-specific situation.	TBC	

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TABLE B-5
(Continued)

Citation	Location	Requirement	Determination	Remarks
		GROUNDWATER PROTECTION (continued)		
OEPA Guidance on Solid Waste Siting Criteria: Minimum Distance From a Public Water Supply Well GD202.105 (continued)	Any	• To be considered for an exemption from this rule, the following will need to be demonstrated: - that there is at least 50 feet of separation between the bottom of the solid waste landfill facility liner and the aquifer system in which the public water supply well is screened. - that any release of leachate shall be detected prior to reaching the aquifer system in which the public water supply well is screened. - that once leachate is released below the liner, the leachate shall not reach the aquifer system in which the public water supply well is screened within a time span of 100 years plus the anticipated life of the solid waste landfill facility which shall include the 30 year post-closure care period.	TBC	
Ohio Solid Waste Disposal Regulations OAC 3745-27-07 (H)(2)(c)	Any	A sanitary landfill facility cannot be located above an aquifer declared by the federal government under the Safe Drinking Water Act to be a sole source aquifer.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-07 (H)(2)(d)	Any	A sanitary landfill facility cannot be located above an unconsolidated aquifer capable of sustaining a yield of 100 gallons per minute for a 24-hour period to a water supply well located within 1,000 feet of the limits of solid waste placement, unless deemed acceptable by the Director.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-07 (H)(3)(c)	Water Supply Well or Developed Spring	The limits of sold waste placement cannot be located within 1,000 feet of a water supply well or developed spring unless it is deemed acceptable by the Director or it is:	Applicable	

TABLE B-5
(Continued)

Citation	Location	Requirement	Determination	Remarks
		GROUNDWATER PROTECTION (continued)		
Ohio Solid Waste Disposal Regulations OAC 3745-27-07 (H)(3)(c) (continued)	Water Supply Well or Developed Spring	• controlled by the applicant, is needed as a source of nonpotable water, no other reasonable alternate water source is available, and the well is constructed to prevent contamination of the groundwater, OR • located at least 500 feet hydrogeologically upgradient from the limits of solid waste placement, OR • separated from the limits of solid waste placement by a hydrogeologic barrier, OR • constructed and used solely for monitoring groundwater quality	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-07 (H)(2)(e)	Any	The isolation distance between the uppermost aquifer system and the bottom of the recompacted soil liner of a sanitary landfill system cannot be less than 15 feet of in situ or added geologic material deemed acceptable by the Director.	Applicable	
OEPA Guidance on Solid Waste Siting Criteria: Material Acceptable to the Director GD202.104	Any	For geologic material to be deemed acceptable to the Director as added fill under OAC Rule 3745-27-07 (B)(15), it must be able to meet the following criteria: • the geologic material must be impermeable enough so it will not store, transmit or yield a significant amount of water to a well or spring • the geologic material must be able to impede both physically and chemically, the flow of leachate constituents through it In order to meet both criteria listed above, the added geologic material should: • be classified as CL, SC, GC, CL-ML, or CH under the Unified Soil Classification System (USCS) • be composed of particles of which at least 25% by dry weight will pass through a No. 200 (75 μm) sieve	TBC	

006266

TABLE B-5
(Continued)

Citation	Location	Requirement	Determination	Remarks
		GROUNDWATER PROTECTION (continued)		
OEPA Guidance on Solid Waste Siting Criteria: Material Acceptable to the Director GD202.104 (continued)	Any	• be composed of no more than 25% by dry weight particles which will not pass through a No. 4 sieve • no particle should be greater than 8 inches in diameter • have a final permeability of no more than $1x10^{-8}$ cm/sec • be recompacted in a manner that when the landfill is constructed on it, no damage to the landfill liner will occur due to settling of the added material	TBC	
Ohio Solid Waste Disposal Regulations OAC 3745-27-07 (H)(4)(b)	Any	The limits of waste placement cannot be located within 300 feet of the sanitary landfill facility's property line, unless deemed acceptable by the Director.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-07 (H)(4)(c)	Any	The limits of solid waste placement cannot be located within 1,000 feet of a domicile whose owner has not consented in writing to the location of the sanitary landfill facility.	Applicable	
Ohio Solid Waste Disposal Regulations OAC 3745-27-09(Y)	Exemption from Siting Criteria	Section 3745-27-09 (Y) states the permittee shall submit to the Director, upon every tenth anniversary of the effective date of a permit to install that approved the initial construction of the facility, an analysis demonstrating that the design, construction and final closure plan of the sanitary landfill facility continue to constitute best available technology. If the Director determines that the design is no longer consistent with best available technology as being applied to the sanitary landfill industry in the state of Ohio, the permittee may be required to submit a permit to install application for necessary modifications to the landfill facilities. If a permit to install is required, the Director shall not apply the siting criteria outlined in paragraph (B) of OAC 3745-27-07, when considering the permit to install application.	Applicable	

000269

TABLE B-5
(Continued)

Citation	Location	Requirement	Determination	Remarks
		GROUNDWATER PROTECTION (continued)		
Ohio Solid and Hazardous Waste Rules ORC 3734.02(A)	Protection of Human Health and the Environment	The director of environmental protection shall adopt and may modify, suspend, or repeal rules for all solid waste facilities in order to ensure that the facilities will be located, maintained, and operated, and will undergo closure and post-closure care, in a sanitary manner so as not to create a nuisance, cause or contribute to water pollution, create a health hazard, or violate 40 CFR § 257.3-2 or 257.3-8.	Applicable	
		RADIOLOGICAL SITING CRITERIA		
Radioactive Waste Management DOE Order 5820.2A Chapter III (7)	Disposal Site Selection	Disposal site selection criteria (based on planned waste confinement technology) shall be developed for establishing new low-level waste disposal sites. Disposal site selection shall be based on an evaluation of the prospective site in conjunction with planned waste confinement technology, and in accordance with the National Environmental Policy Act process. Site selection shall also be based on the following criteria: • The disposal site shall have hydrogeologic characteristics which, in conjunction with the planned waste confinement technology, will protect the groundwater resource. • The potential for natural hazards such as floods, erosion, tornadoes, earthquakes, and volcanoes shall be considered in site selection. • Site selection criteria shall address the impact on current and projected populations, land use resources development plans and nearby public facilities, accessibility to transportation routes and utilities, and the location of waste generation.	TBC	

000270

TABLE B-5
(Continued)

Citation	Location	Requirement	Determination	Remarks
		RADIOLOGICAL SITING CRITERIA (continued)		
Joint NRC-EPA Guidance on Siting of Mixed Low-Level Radioactive and Hazardous Waste Units (March 13, 1987)	Any	Areas with highly vulnerable hydrogeology deserve special attention in the siting of a mixed low-level waste disposal facility. Hydrogeology is considered vulnerable when groundwater travel time along any 100-foot flow path from the edge of the engineered containment structure in less than approximately 100 years. Disposal sites located in areas of vulnerable hydrogeology may require extensive, site-specific investigations which could lead to and provide bases for restrictions or modifications to design or operating practices. However, a finding that a site is located in an area of vulnerable hydrogeology alone, based on the EPA criteria, is not considered sufficient to prohibit siting under RCRA.	TBC	

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TABLE B-6
NON-ARAR REQUIREMENTS

Citation	Action	Requirement
OSHA Worker Protection Requirements 29 CFR §§ 1904 and 1910	Worker Safety	These regulations establish requirements to protect workers who could be exposed to radiation, noise, hazardous wastes, or other contaminants or hazards at the remediation site.
DOT Requirements for Transportation of Hazardous Materials 49 CFR §§ 171-173 and 177-179	Transportation of Wastes Off Site	No one may transport hazardous materials on public highways except in accordance with these regulations: • Part 171 - General requirements for transporting hazardous materials. • Part 172 - This part establishes shipping papers, marking, labeling, placarding, and emergency response information requirements. • Part 173 - This part establishes packaging and other shipping requirements for hazardous materials, including radioactive materials. • Part 177 - This part establishes requirements for the transporter. • Part 178 - This part establishes specifications for shipping containers. • Part 179 - This part establishes specifications for tanks cars.
Highway Improvement Act of 1982 23 U.S.C. §127	Transportation of Wastes Off Site	Establishes vehicle weight limits for interstate highways.
Resource, Conservation, and Recovery Act 40 CFR §262.20	Transportation of Hazardous Waste	A generator who transports, or offers for transportation, hazardous waste for off-site treatment, storage, or disposal must prepare a Manifest OMB control number 2050-0039 on EPA form 8700-22, and, if necessary, EPA form 8700-22A, according to the instructions included in the Appendix to Part 262.
Resource, Conservation, and Recovery Act 40 CFR §§ 262.30 - 262.33	Transportation of Hazardous Waste	Before transporting hazardous waste or offering hazardous waste for transportation off site, a generator must package, label, mark, and placard the waste in accordance with §§ 172, 173, 178, and 179 of the Department of Transportation regulations listed above (49 CFR).
Resource, Conservation, and Recovery Act 40 CFR § 262.34	Hazardous Waste Accumulation Time	A generator may accumulate hazardous waste on-site for 90 days or less without a permit or without having interim status, provided that it is stored according to the requirements of this section. A generator who accumulates hazardous waste for more than 90 days is an operator of a storage facility and is subject to the requirements of 40 CFR Parts 264 and 265 and the permit requirements of 40 CFR Part 270 unless he has been granted an extension to the 90-day period. Such extension may be granted by EPA is hazardous wastes must remain on-site for longer than 90 days due to unforeseen, temporary, and uncontrollable circumstances.
Resource, Conservation, and Recovery Act 40 CFR §263	Transportation of Hazardous Waste	Persons transporting hazardous waste within the United States must comply with the regulations of this part, including manifest requirements and management of accidental hazardous waste discharges.

TABLE B-6
(Continued)

Citation	Action	Requirement
Nevada Test Site (NTS) Waste Acceptance Criteria, Certification, and Transfer Requirements	Disposal of Waste at NTS	Establishes the wastes that the facility will accept for disposal. See Appendix D.2 for a listing of the waste acceptance criteria.
Utah Bureau of Radiation Control, Radioactive Material License UT 2300249	Disposal of Waste at Envirocare	Establishes the wastes that the facility will accept for disposal. See Appendix D.2 for a listing of the waste acceptance criteria.
Native American Graves Protection and Repatriation Act 25 U.S.C. §3001	Protection of American Indian Grave Sites	Provides for return of human remains and cultural objects from Native American graves to affiliated tribes.
Fish and Wildlife Coordination Act 16 U.S.C. §66, *et sec.*	Protection of Fish and Wildlife	Requires consultation with state agencies for the purpose of conserving fish and wildlife resources when conducting activities that might affect any body of water.
Farmland Protection Policy Act 7 U.S.C. §4201, *et sec.*	Protection of Prime Agricultural Soils	Requires protection and maintenance of farmland for its beneficial use as national resource.
DOE Order 1540.1	Contractual obligation for activities at DOE facilities	Materials Transportation and Traffic Management
DOE Order 5440.1E	Contractual obligation for activities at DOE facilities	NEPA Compliance Program
DOE Order 5480.1B	Contractual obligation for activities at DOE facilities	Environmental, Safety, and Health Program for DOE Operations
DOE Order 5480.4	Contractual obligation for activities at DOE facilities	Environmental Protection, Safety, and Health Protection Standards
10 CFR §835 DOE Order 5480.11	Contractual obligation for activities at DOE facilities	Radiation Protection for Occupational Workers
DOE Order 5483.1A	Contractual obligation for activities at DOE facilities	Occupational Safety and Health Programs for DOE Employees at Government-Owned, Contractor-Operated Facilities
DOE Order 5700.6C	Contractual obligation for activities at DOE facilities	Quality Assurance

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