

Evaluation by Laboratory

AU **ORISE EESD/ESSAP, Oak Ridge**

Software: Canberra Genie VMS

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
AC 228	1	2.61	0.27				FP
CE 144	1	106.40	1.30	0.44	128.00	0.83	A
CO 57	1	10.58	0.16	0.06	12.00	0.88	A
CS 137	1	22.18	0.45	0.10	21.00	1.06	A
K 40	1	6.68	0.89				FP
MN 54	1	16.97	0.36	0.12	17.00	1.00	A
PB 212	1	1.81	0.11				FP
PB 214	1	1.55	0.19				FP
TL 208	1	2.28	0.20				FP
AC 228	2	2.61	0.27				FP
BE 7	2	4.51	0.71	0.65	5.10	0.88	A
CE 144	2	6.78	0.43	0.44	8.00	0.85	A
K 40	2	6.68	0.89				FP
NB 95	2	4.79	0.19	0.11	4.70	1.02	A
PB 210	2				3.30		ND
PB 212	2	1.81	0.10				FP
PB 214	2	1.55	0.17				FP
RU 103	2				4.70		ND
TL 208	2	2.27	0.16				FP
ZR 95	2	2.14	0.20	0.20	2.00	1.07	A
AC 228	3	2.61	0.37				FP
BA 140	3				10.00		ND
CE 141	3				1.30		ND
CE 144	3	2.50	0.77	0.44	3.00	0.83	A
CS 134	3	5.23	0.23	0.18	5.40	0.97	A
CS 136	3	3.41	0.19	0.10	3.60	0.95	A
CS 137	3	5.49	0.23	0.10	5.90	0.93	W
DY 166	3				7.20		ND
I 131	3	12.05	0.22	0.07	16.20	0.74	W
K 40	3	6.68	0.89				FP
NB 95	3	7.13	0.25	0.11	7.40	0.96	A
PB 212	3	1.67	0.20				FP
RU 103	3				6.00		ND
SB 125	3				2.00		ND
SB 126	3				3.10		ND
TE 132	3	21.21	0.24	0.06	23.00	0.92	A
TL 208	3	2.25	0.22				FP
XE 133	3				6.40		ND
ZR 95	3	2.25	0.24	0.20	2.00	1.13	A

Evaluation by Laboratory

BL Barringer Laboratories Inc., Golden, CO

Software: APTEC 4.3

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CE 144	1	129.00	11.00	1.50	128.00	1.01	A
CO 57	1	12.00	1.00	0.20	12.00	1.00	A
CS 137	1	20.00	1.00	0.40	21.00	0.95	W
MN 54	1	18.00	1.00	0.20	17.00	1.06	A
BE 7	2	5.30	1.40	1.80	5.10	1.04	A
CE 144	2				8.00		ND
NB 95	2	4.80	0.40	0.20	4.70	1.02	A
PB 210	2				3.30		ND
RU 103	2	4.80	0.50	0.20	4.70	1.02	A
ZR 95	2	2.10	0.40	0.30	2.00	1.05	A
BA 140	3	8.00	1.60	1.60	10.00	0.80	W
CE 141	3	1.20	0.40	0.60	1.30	0.92	A
CE 144	3	2.80	1.60	2.50	3.00	0.93	A
CS 134	3	5.30	0.60	0.30	5.40	0.98	A
CS 136	3	3.70	0.60	0.30	3.60	1.03	A
CS 137	3	5.30	0.50	0.30	5.90	0.90	W
DY 166	3				7.20		ND
I 131	3	17.00	1.00	0.40	16.20	1.05	A
NB 95	3	7.20	0.60	0.20	7.40	0.97	A
RU 103	3	5.70	0.70	0.50	6.00	0.95	A
SB 125	3	2.20	0.90	1.00	2.00	1.10	A
SB 126	3	3.50	0.50	0.30	3.10	1.13	A
TE 132	3	30.00	3.00	0.40	23.00	1.30	W
XE 133	3				6.40		ND
ZR 95	3	2.20	0.40	0.50	2.30	0.96	A

Evaluation by Laboratory

BP Battelle Pacific Northwest Laboratory

Software: Canberra Genie VMS

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
BA 140	1			1.10			
BE 7	1			2.60			
CE 141	1			0.21			
CE 144	1	115.00	5.00		128.00	0.90	A
CO 57	1	12.00	0.40		12.00	1.00	A
CS 134	1			0.26			FP
CS 136	1			0.16			
CS 137	1	21.00	1.40		21.00	1.00	A
I 131	1			0.20			
MN 54	1	17.70	0.80		17.00	1.04	A
NB 95	1			0.18			
RU 103	1			0.29			
SB 125	1			0.69			
SB 126	1			0.27			
TE 132	1			0.14			
XE 133	1			0.94			
ZR 95	1			0.33			
BA 140	2			0.60			
BE 7	2	5.20	0.88		5.10	1.02	A
CE 141	2			0.17			
CE 144	2	8.11	0.49		8.00	1.01	A
CO 57	2			0.09			
CS 134	2			0.17			
CS 136	2			0.11			
CS 137	2			0.17			
I 131	2			0.16			
MN 54	2			0.13			
NB 95	2	4.86	0.31		4.70	1.03	A
PB 210	2				3.30		ND
RU 103	2	4.52	0.32		4.70	0.96	A
SB 125	2			0.45			
SB 126	2			0.13			
TE 132	2			0.11			
XE 133	2			0.31			
ZR 95	2	2.07	0.17		2.00	1.04	A
BA 140	3	8.65	0.76		10.00	0.87	A
BE 7	3			2.80			
CE 141	3	1.33	0.22		1.30	1.02	A
CE 144	3	2.95	0.93		3.00	0.98	A
CO 57	3			0.25			
CS 134	3	5.27	0.24		5.40	0.98	A
CS 136	3	3.83	0.15		3.60	1.06	A
CS 137	3	5.64	0.43		5.90	0.96	W
DY 166	3				7.20		ND
I 131	3	16.30	0.80		16.20	1.01	A
MN 54	3			0.20			
NB 95	3	7.22	0.44		7.40	0.98	A
RU 103	3	5.43	0.41		6.00	0.90	A

Evaluation by Laboratory

BP Battelle Pacific Northwest Laboratory

Software: Canberra Genie VMS

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
SB 125	3	2.12	0.35		2.00	1.06	A
SB 126	3	3.13	0.14		3.10	1.01	A
TE 132	3	27.50	1.00		23.00	1.20	A
XE 133	3	9.72	0.59		6.40	1.52	N
ZR 95	3	2.34	0.21		2.30	1.02	A

Evaluation by Laboratory

BX B&W Nuclear Envir. Services, Lynchburg, VA

Software: Canberra Genie VMS

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
AC 228	1	1.67	0.51	0.00			FP
BA 133	1	0.32	0.41	1.55			FP
CE 144	1				128.00		ND
CO 57	1				12.00		ND
CS 137	1	34.40	0.69	0.75	21.00	1.64	N
FR 223	1	9.55	7.33	16.10			FP
I 129	1	0.95	0.04	0.05			FP
K 40	1	4.44	1.18	0.00			FP
KR 85	1	80.60	67.40	314.00			FP
MN 54	1				17.00		ND
PB 214	1	0.53	0.69	0.93			FP
RN 222	1	44.90	37.50	63.60			FP
TH 227	1	3.07	2.36	5.29			FP
U 234	1	267.00	124.00	251.00			FP
BE 7	2				5.10		ND
CE 144	2				8.00		ND
I 129	2	0.07	0.02	2.28			FP
K 40	2	6.05	0.81	0.00			FP
NB 95	2				4.70		ND
PB 210	2				3.30		ND
PB 214	2	4.83	0.53	0.79			FP
RN 222	2	1350.00	205.00	298.00			FP
RU 103	2				4.70		ND
ZR 95	2				2.00		ND
BA 140	3				10.00		ND
CE 141	3				1.30		ND
CE 144	3				3.00		ND
CS 134	3	7.55	0.33	5.84	5.40	1.40	N
CS 136	3				3.60		ND
CS 137	3				5.90		ND
DY 166	3				7.20		ND
I 129	3	9.22	0.38	0.73			FP
I 131	3				16.20		ND
K 40	3	6.05	0.81	0.00			FP
NB 95	3				7.40		ND
PB 214	3	4.83	0.74	1.34			FP
RN 222	3	1220.00	364.00	708.00			FP
RU 103	3				6.00		ND
SB 125	3				2.00		ND
SB 126	3				3.10		ND
TE 132	3				23.00		ND
U 234	3	631.00	110.00	278.00			FP
XE 133	3				6.40		ND
ZR 95	3				2.30		ND

Evaluation by Laboratory

CA Atomic Energy Control Board, Ottawa, Canada

Software: APTEC 5.3

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CE 144	1	141.00	12.50	2.00	128.00	1.10	W
CO 57	1	12.40	1.00	0.20	12.00	1.03	A
CS 137	1	21.50	0.90	0.50	21.00	1.02	A
MN 54	1	17.80	1.10	0.20	17.00	1.05	A
BE 7	2	5.20	1.30	1.60	5.10	1.02	A
CE 144	2	8.00	1.60	1.10	8.00	1.00	A
NB 95	2	4.90	0.40	0.20	4.70	1.04	A
PB 210	2				3.30		ND
RU 103	2	4.80	0.50	3.00	4.70	1.02	A
ZR 95	2	2.40	0.40	0.30	2.00	1.20	W
BA 140	3	10.20	2.20	4.70	10.00	1.02	A
CE 141	3	1.30	0.40	0.60	1.30	1.00	A
CE 144	3	2.70	1.60	2.60	3.00	0.90	A
CS 134	3	4.90	0.70	1.40	5.40	0.91	A
CS 136	3	3.80	0.70	1.70	3.60	1.06	A
CS 137	3				5.90		ND
DY 166	3				7.20		ND
I 131	3	16.40	1.40	3.10	16.20	1.01	A
NB 95	3	7.30	0.60	0.30	7.40	0.99	A
RU 103	3	5.70	0.50	0.50	6.00	0.95	A
SB 125	3				2.00		ND
SB 126	3	3.30	0.40	0.50	3.10	1.06	A
TE 132	3	26.90	2.70	8.70	23.00	1.17	A
XE 133	3				6.40		ND
ZR 95	3	2.70	0.50	0.50	2.30	1.17	A

Evaluation by Laboratory

CH

California State Dept. Health Serv, .Sanitation & Radiation Laboratory

Software: Canberra Genie VMS

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CD 109	1	9.30	2.60	3.87			FP
CE 144	1	122.20	1.59	1.07	128.00	0.95	A
CO 57	1	11.90	0.18	0.13	12.00	0.99	A
CS 137	1	21.60	0.43	0.32	21.00	1.03	A
K 40	1	5.15	1.37	0.00			FP
MN 54	1	17.80	0.38	0.14	17.00	1.05	A
RA 228	1	1.45	0.44	0.00			FP
TH 232	1	2.24	0.72	0.83			FP
BE 7	2	5.43	0.85	1.25	5.10	1.06	A
CE 144	2	7.76	0.55	0.76	8.00	0.97	A
K 40	2	5.15	1.37	0.00			FP
NB 95	2	4.92	0.20	0.10	4.70	1.05	A
PB 210	2				3.30		ND
RA 228	2	1.45	0.44	0.00			FP
RU 103	2	4.84	0.18	0.15	4.70	1.03	A
TH 232	2	2.24	0.61	0.53			FP
ZR 95	2	2.18	0.20	0.10	2.00	1.09	A
BA 140	3	7.97	0.78	0.12	10.00	0.80	W
CE 141	3	1.33	0.21	0.43	1.30	1.02	A
CE 144	3	2.60	0.96	1.95	3.00	0.87	A
CS 134	3	5.30	0.24	0.40	5.40	0.98	A
CS 136	3	3.68	0.22	0.13	3.60	1.02	A
CS 137	3	5.78	0.24	0.32	5.90	0.98	A
DY 166	3				7.20		ND
I 125	3	23.40	1.58	2.06			FP
I 131	3	17.60	0.32	0.30	16.20	1.09	A
K 40	3	5.15	1.37	0.00			FP
NB 95	3	7.31	0.25	0.17	7.40	0.99	A
RU 103	3	5.82	0.25	0.34	6.00	0.97	A
SB 122	3	0.71	0.24	0.47			FP
SB 125	3	2.27	0.41	0.90	2.00	1.14	A
SB 126	3	3.12	0.18	0.28	3.10	1.01	A
TE 132	3	30.20	0.34	0.27	23.00	1.31	W
XE 133	3				6.40		ND
ZR 89	3	0.44	0.16	0.17			FP
ZR 95	3	2.30	0.24	0.34	2.30	1.00	A

Evaluation by Laboratory

ES Environmental Sci. & Engr., Inc., Gainesville, FL

Software: Vertechs GDR/P 3.1c

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CE 144	1	133.00	10.60	0.99	128.00	1.04	A
CO 57	1	12.20	0.98	0.21	12.00	1.02	A
CS 137	1	20.90	1.67	0.43	21.00	1.00	A
MN 54	1	17.40	1.39	0.19	17.00	1.02	A
BE 7	2	5.25	0.66	1.59	5.10	1.03	A
CE 144	2	8.24	0.66	0.77	8.00	1.03	A
NB 95	2	4.79	0.38	0.13	4.70	1.02	A
PB 210	2				3.30		ND
RU 103	2	4.64	0.37	0.19	4.70	0.99	A
ZR 95	2	2.06	0.17	0.23	2.00	1.03	A
BA 140	3	8.16	0.65	1.49	10.00	0.82	A
CE 141	3	1.34	0.18	0.58	1.30	1.03	A
CE 144	3	3.11	0.85	3.05	3.00	1.04	A
CS 134	3	5.20	0.42	0.28	5.40	0.96	A
CS 136	3	3.58	0.29	0.18	3.60	1.00	A
CS 137	3	5.47	0.44	0.34	5.90	0.93	W
DY 166	3				7.20		ND
I 131	3	17.30	1.38	0.22	16.20	1.07	A
NB 95	3	7.09	0.57	0.21	7.40	0.96	A
RU 103	3	5.56	0.45	0.41	6.00	0.93	A
SB 125	3	2.15	0.27	0.93	2.00	1.08	A
SB 126	3	3.06	0.24	0.23	3.10	0.99	A
TE 132	3	29.50	2.36	0.42	23.00	1.28	W
XE 133	3				6.40		ND
ZR 95	3	2.04	0.16	0.40	2.30	0.89	A

Evaluation by Laboratory

FL Florida Dept of Health & Rehab. Serv., Orlando

Software: Canberra SAMPO 90

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
BA 140	1	19.10	0.90				FP
BE 7	1			2.20			
CE 141	1			0.20			
CE 144	1	128.00	6.00		128.00	1.00	A
CO 57	1	12.00	0.50		12.00	1.00	A
CS 134	1			0.20			
CS 136	1			0.03			
CS 137	1			0.21	21.00	0.00	N
I 131	1			0.16			
MN 54	1	17.20	0.80		17.00	1.01	A
PB 210	1			5.40			
RU 103	1			0.25			
SB 125	1			0.60			
SB 126	1			0.12			
TE 132	1			0.13			
ZR 95	1			0.30			
BA 140	2			0.52			
BE 7	2	5.00	0.20		5.10	0.98	A
CE 141	2			0.17			
CE 144	2	8.00	0.40		8.00	1.00	A
CO 57	2			0.08			
CS 134	2			0.14			
CS 136	2			0.03			
CS 137	2			0.14			
I 131	2			0.13			
MN 54	2			0.13			
NB 95	2				4.70		ND
PB 210	2	3.50	0.50		3.30	1.06	A
RU 103	2	4.60	0.20		4.70	0.98	A
SB 125	2			0.40			
SB 126	2			0.15			
TE 132	2			0.11			
ZR 95	2	2.00	0.20		2.00	1.00	A
BA 140	3	7.60	0.60		10.00	0.76	W
BE 7	3			2.30			
CE 141	3	1.30	0.10		1.30	1.00	A
CE 144	3	2.80	0.10		3.00	0.93	A
CO 57	3			0.21			
CS 134	3	5.20	0.20		5.40	0.96	A
CS 136	3	3.50	0.20		3.60	0.97	A
CS 137	3	5.80	0.30		5.90	0.98	A
DY 166	3				7.20		ND
I 131	3	16.80	0.80		16.20	1.04	A
MN 54	3			0.19			
NB 95	3				7.40		ND
PB 210	3	26.00	3.00				FP
RU 103	3	5.40	0.20		6.00	0.90	A
SB 125	3	1.99	0.08		2.00	1.00	A

Evaluation by Laboratory

FL Florida Dept of Health & Rehab. Serv., Orlando

Software: Canberra SAMPO 90

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
SB 126	3	3.10	0.10		3.10	1.00	A
TE 132	3	30.00	1.00		23.00	1.30	W
XE 133	3				6.40		ND
ZR 95	3	2.20	0.20		2.30	0.96	A

Evaluation by Laboratory

FM

Florida Mobile Emergency Radiological Laboratory, Orlando

Software: Canberra SAMPO 90

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
BA 140	1			0.96			
BE 7	1			2.43			
CE 144	1	123.00	5.10		128.00	0.96	A
CO 57	1	11.60	0.40		12.00	0.97	A
CS 134	1			0.20			
CS 136	1			0.03			
CS 137	1	21.10	0.60		21.00	1.00	A
I 131	1			0.18			
MN 54	1	17.20	0.50		17.00	1.01	A
NB 95	1			0.17			
RU 103	1			0.25			
SB 125	1			0.30			
SB 126	1			0.12			
TE 132	1			0.12			
ZN 72	1			0.11			
ZR 95	1			0.30			
BA 140	2			0.57			
BE 7	2	5.50	0.50		5.10	1.08	A
CE 144	2	7.70	0.50		8.00	0.96	A
CO 57	2			0.08			
CS 134	2			0.16			
CS 136	2			0.03			
CS 137	2			0.15			
I 131	2			0.15			
MN 54	2			0.13			
NB 95	2	4.80	0.20		4.70	1.02	A
PB 210	2				3.30		ND
RU 103	2	4.70	0.20		4.70	1.00	A
SB 125	2			0.44			
SB 126	2			0.30			
TE 132	2			0.10			
ZN 72	2			0.09			
ZR 95	2	2.10	0.20		2.00	1.05	A
BA 140	3	8.30	0.50		10.00	0.83	A
CE 141	3				1.30		ND
CE 144	3	2.80	0.40		3.00	0.93	A
CS 134	3	5.30	0.10		5.40	0.98	A
CS 136	3	3.60	0.10		3.60	1.00	A
CS 137	3	5.80	0.20		5.90	0.98	A
DY 166	3				7.20		ND
I 131	3	16.60	0.50		16.20	1.02	A
NB 95	3	7.20	0.30		7.40	0.97	A
RU 103	3	5.90	0.20		6.00	0.98	A
SB 125	3	2.10	0.26		2.00	1.05	A
SB 126	3	3.20	0.10		3.10	1.03	A
TE 132	3	28.90	1.00		23.00	1.26	W
XE 133	3				6.40		ND
ZN 72	3	0.84	0.08				FP

Evaluation by Laboratory

FM

Florida Mobile Emergency Radiological Laboratory, Orlando

Software: Canberra SAMPO 90

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
ZR 95	3	2.30	0.20		2.30	1.00	A

Evaluation by Laboratory

GA Lockheed Martin, Pikton, OH

Software: Canberra PROCOUNT

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CE 144	1	118.03	14.51	14.86	128.00	0.92	A
CO 57	1	11.55	1.58	0.13	12.00	0.96	A
CS 137	1	21.15	3.34	0.34	21.00	1.01	A
MN 54	1	17.46	2.24	0.16	17.00	1.03	A
BE 7	2	5.29	1.83	1.34	5.10	1.04	A
CE 144	2	7.67	1.29	0.73	8.00	0.96	A
NB 95	2	4.83	0.77	0.12	4.70	1.03	A
PB 210	2	4.57	4.22	3.08	3.30	1.38	W
RU 103	2	4.79	0.71	0.16	4.70	1.02	A
ZR 95	2	1.91	0.51	0.46	2.00	0.96	A
BA 140	3	9.52	2.18	1.54	10.00	0.95	A
CE 141	3	1.28	0.43	0.42	1.30	0.98	A
CE 144	3	2.90	1.86	1.93	3.00	0.97	A
CS 134	3	5.27	0.84	0.23	5.40	0.98	A
CS 136	3	3.47	0.58	0.21	3.60	0.96	A
CS 137	3	5.67	0.98	0.33	5.90	0.96	W
DY 166	3				7.20		ND
I 131	3	16.42	3.39	0.30	16.20	1.01	A
NB 95	3	7.17	1.10	0.19	7.40	0.97	A
PB 210	3	86.58	19.76	7.32			FP
RU 103	3	5.75	0.89	0.35	6.00	0.96	A
SB 125	3	2.18	0.87	0.90	2.00	1.09	A
SB 126	3	3.05	0.69	0.31	3.10	0.98	A
TE 132	3	26.67	4.02	0.26	23.00	1.16	A
XE 133	3				6.40		ND
ZR 95	3	1.70	0.67	0.67	2.30	0.74	W

Evaluation by Laboratory

HC Lawrence Livermore Laboratory, California

Software: Canberra PROCOUNT

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CE 144	1	125.30	25.30	1.01	128.00	0.98	A
CO 57	1	11.95	1.83	0.13	12.00	1.00	A
CS 137	1	21.20	3.82	0.32	21.00	1.01	A
MN 54	1	17.70	2.80	0.14	17.00	1.04	A
XE 133	1	5.90	1.09	0.49			FP
BE 7	2	5.22	1.84	1.19	5.10	1.02	A
CE 144	2	8.06	1.93	0.79	8.00	1.01	A
NB 95	2	4.88	0.89	0.10	4.70	1.04	A
PB 210	2				3.30		ND
RU 103	2	4.66	0.95	0.14	4.70	0.99	A
XE 133	2	0.32	0.22	0.25			FP
ZR 95	2	2.16	0.54	0.19	2.00	1.08	A
BA 140	3	7.72	3.12	1.21	10.00	0.77	W
CE 141	3	1.29	0.46	0.41	1.30	0.99	A
CE 144	3	2.96	1.95	1.91	3.00	0.99	A
CS 134	3	5.18	0.97	0.38	5.40	0.96	A
CS 136	3	3.70	0.74	0.16	3.60	1.03	A
CS 137	3	5.68	1.10	0.33	5.90	0.96	W
DY 166	3				7.20		ND
I 131	3	16.70	2.95	0.29	16.20	1.03	A
NB 95	3	7.25	1.29	0.19	7.40	0.98	A
RU 103	3	5.60	1.17	0.34	6.00	0.93	A
SB 122	3	0.69	0.47	0.48			FP
SB 125	3				2.00		ND
SB 126	3				3.10		ND
TE 132	3	28.30	5.62	0.25	23.00	1.23	W
XE 133	3	10.30	1.86	0.66	6.40	1.61	N
ZR 95	3	2.28	0.62	0.36	2.30	0.99	A

Evaluation by Laboratory

HL Heritage Laboratories, Inc., Romeoville, IL

Software: Canberra Genie VMS

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
AM 243	1	2.05	0.94	0.78			FP
CE 144	1	690.80	109.20	5.90	128.00	5.40	N
CO 57	1	73.17	10.23	0.66	12.00	6.10	N
CS 137	1	37.77	4.55	0.50	21.00	1.80	N
MN 54	1	18.15	2.14	0.13	17.00	1.07	A
NP 237	1	17.29	6.90	3.98			FP
BE 7	2	20.29	10.41	4.28	5.10	3.98	N
CE 144	2	48.04	11.08	4.32	8.00	6.01	N
NB 95	2	6.15	0.85	0.13	4.70	1.31	W
PB 210	2				3.30		ND
RU 103	2	15.80	2.30	0.46	4.70	3.36	N
ZR 95	2	2.83	0.46	0.23	2.00	1.42	W
BA 140	3	26.01	5.12	3.05	10.00	2.60	N
CE 141	3	9.20	3.46	2.50	1.30	7.08	N
CE 144	3	18.96	12.50	10.33	3.00	6.32	N
CS 134	3	7.38	0.71	0.22	5.40	1.37	N
CS 136	3	3.92	0.39	0.14	3.60	1.09	A
CS 137	3	10.13	1.42	0.48	5.90	1.72	N
DY 166	3				7.20		ND
I 131	3	64.24	8.80	1.77	16.20	3.97	N
NB 95	3	9.14	1.20	0.20	7.40	1.24	W
RU 103	3	19.10	2.91	1.00	6.00	3.18	N
SB 125	3	4.25	2.67	3.20	2.00	2.13	N
SB 126	3	5.25	0.59	0.41	3.10	1.69	N
TE 132	3	191.00	35.60	1.80	23.00	8.30	N
XE 133	3				6.40		ND
ZR 95	3	3.19	0.58	0.40	1.39	1.39	W

Evaluation by Laboratory

JP

Japan Chemical Analysis Center

Software: IN HOUSE

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
BA 140	1			1.10			
BE 7	1			2.70			
CE 141	1			0.25			
CE 144	1	130.00	22.00	1.20	128.00	1.02	A
CO 57	1	13.00	2.10	0.22	12.00	1.08	W
CS 134	1			0.28			
CS 136	1			0.20			
CS 137	1	21.00	4.00	0.35	21.00	1.00	A
I 131	1			0.20			
MN 54	1	18.00	3.30	0.24	17.00	1.06	A
NB 95	1			0.22			
RU 103	1			0.31			
SB 125	1			0.70			
SB 126	1			0.23			
TE 132	1			0.14			
ZR 95	1			0.38			
BA 140	2			0.70			
BE 7	2	5.20	2.30	1.60	5.10	1.02	A
CE 141	2			0.22			
CE 144	2	8.30	2.30	0.95	8.00	1.04	A
CO 57	2			0.12			
CS 134	2			0.20			
CS 136	2			0.17			
CS 137	2			0.21			
I 131	2			0.17			
MN 54	2			0.18			
NB 95	2	4.80	1.20	0.18	4.70	1.02	A
PB 210	2				3.30		ND
RU 103	2	4.60	1.10	0.22	4.70	0.98	A
SB 125	2			0.51			
SB 126	2			0.17			
TE 132	2			0.12			
ZR 95	2	2.10	0.08	0.32	2.00	1.05	A
BA 140	3	7.80	2.40	1.20	10.00	0.78	W
BE 7	3			2.90			
CE 141	3	1.30	0.50	0.45	1.30	1.00	A
CE 144	3	2.90	1.60	2.00	3.00	0.97	A
CO 57	3			0.26			
CS 134	3	5.20	1.30	0.31	5.40	0.96	A
CS 136	3	3.50	0.96	0.23	3.60	0.97	A
CS 137	3	5.60	1.40	0.31	5.90	0.95	W
DY 166	3				7.20		ND
I 131	3	16.00	2.90	0.31	16.20	0.99	A
MN 54	3			0.23			
NB 95	3	7.10	1.60	0.23	7.40	0.96	A
RU 103	3	5.80	1.20	0.36	6.00	0.97	A
SB 125	3	2.00	0.95	0.84	2.00	1.00	A
SB 126	3	3.10	0.80	0.30	3.10	1.00	A

Evaluation by Laboratory

JP Japan Chemical Analysis Center

Software: IN HOUSE

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
TE 132	3	27.00	4.30	0.34	23.00	1.17	A
XE 133	3				6.40		ND
ZR 95	3	2.20	0.85	0.40	2.30	0.96	A

Evaluation by Laboratory

LA1 Los Alamos National Lab

Software: EG&G Ortec Gammavision

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CE 144	1	127.49	8.92	1.12	128.00	1.00	A
CO 57	1	12.83	0.91	0.46	12.00	1.07	A
CS 137	1	21.71	1.80	0.15	21.00	1.03	A
MN 54	1	17.88	1.51	0.04	17.00	1.05	A
BE 7	2	5.31	2.01	0.43	5.10	1.04	A
CE 144	2	8.77	1.58	0.25	8.00	1.10	W
NB 95	2	4.93	0.63	0.01	4.70	1.05	A
PB 210	2				3.30		ND
RU 103	2	4.83	0.59	0.06	4.70	1.03	A
ZR 95	2	2.19	0.45	0.02	2.00	1.10	A
BA 140	3	10.07	3.76	0.79	10.00	1.01	A
CE 141	3				1.30		ND
CE 144	3				3.00		ND
CS 134	3	5.10	0.73	0.19	5.40	0.94	A
CS 136	3	3.56	0.58	0.07	3.60	0.99	A
CS 137	3	5.44	1.10	0.34	5.90	0.92	W
DY 166	3	4.97	2.67	1.00	7.20	0.69	W
I 131	3	15.99	1.44	0.17	16.20	0.99	A
NB 95	3	7.34	0.85	0.07	7.40	0.99	A
RU 103	3	5.78	0.79	0.14	6.00	0.96	A
SB 125	3	1.63	1.00	0.33	2.00	0.81	A
SB 126	3	2.65	0.51	0.19	3.10	0.85	A
TE 132	3	23.33	1.55	0.14	23.00	1.01	A
XE 133	3				6.40		ND
ZR 95	3	2.15	0.56	0.12	2.30	0.93	A

Evaluation by Laboratory

LA2 Los Alamos National Lab

Software: EG&G Ortec GELIGAM

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CE 144	1	140.00	7.00	3.70	128.00	1.09	W
CO 57	1	12.10	0.60	0.21	12.00	1.01	A
CS 137	1	22.20	1.40	0.17	21.00	1.06	A
MN 54	1	17.90	1.20	0.17	17.00	1.05	A
BE 7	2	5.08	1.23	4.10	5.10	1.00	A
CE 144	2	8.45	1.07	3.70	8.00	1.06	A
NB 95	2	4.93	0.40	0.20	4.70	1.05	A
PB 210	2				3.30		ND
RU 103	2	4.53	0.41	0.36	4.70	0.96	A
ZR 95	2	2.13	0.30	0.56	2.00	1.07	A
BA 140	3	8.00	1.40	1.30	10.00	0.80	W
CE 141	3				1.30		ND
CE 144	3				3.00		ND
CS 134	3	5.18	0.56	0.26	5.40	0.96	A
CS 136	3	3.59	0.35	0.15	3.60	1.00	A
CS 137	3	5.70	1.43	0.20	5.90	0.97	W
DY 166	3				7.20		ND
I 131	3	15.80	0.00	0.23	16.20	0.98	A
NB 95	3	7.32	0.64	0.20	7.40	0.99	A
RU 103	3	5.45	0.53	0.36	6.00	0.91	A
SB 125	3	1.82	0.65	0.68	2.00	0.91	A
SB 126	3	2.92	0.33	0.23	3.10	0.94	A
TE 132	3	28.40	1.30	0.13	23.00	1.23	W
XE 133	3				6.40		ND
ZR 95	3	2.25	0.45	0.56	2.30	0.98	A

Evaluation by Laboratory

LB Lawrence Berkeley Lab UCB

Software: APTEC 4.0

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
AC 228	1	5.33	0.86	0.83			FP
CE 144	1				128.00		ND
CO 57	1				12.00		ND
CS 137	1	21.55	0.77	0.25	21.00	1.03	A
K 40	1	6.86	0.94	0.12			FP
MN 54	1	17.91	0.59	0.11	17.00	1.05	A
PB 214	1	53.57	7.06	14.01			FP
AC 228	2	5.61	0.96	0.83			FP
BE 7	2	5.26	0.66	0.90	5.10	1.03	A
CE 144	2				8.00		ND
K 40	2	6.86	0.94	0.12			FP
NB 95	2	4.97	0.23	0.08	4.70	1.06	A
PB 210	2				3.30		ND
RU 103	2	4.77	0.23	0.12	4.70	1.01	A
TH 234	2	1.85	0.78	1.47			FP
ZR 95	2	2.02	0.21	0.21	2.00	1.01	A
BA 140	3				10.00		ND
CE 141	3	1.33	0.19	0.35	1.30	1.02	A
CE 144	3				3.00		ND
CS 134	3	5.32	0.34	0.81	5.40	0.99	A
CS 136	3	4.05	0.31	0.95	3.60	1.13	A
CS 137	3	5.67	0.28	0.35	5.90	0.96	W
DY 166	3				7.20		ND
I 131	3	16.55	0.80	2.73	16.20	1.02	A
K 40	3	6.86	0.94	0.12			FP
NB 95	3	7.39	0.31	0.14	7.40	1.00	A
PB 212	3	3.74	0.36	0.58			FP
PB 214	3	53.38	6.89	11.57			FP
RU 103	3	5.78	0.29	0.26	6.00	0.96	A
SB 125	3				2.00		ND
SB 126	3	2.80	0.23	0.39	3.10	0.90	A
TE 132	3				23.00		ND
XE 133	3				6.40		ND
ZR 95	3	1.96	0.26	0.37	2.30	0.85	A

Evaluation by Laboratory

NL FERMCO, Cincinnati, OH

Software: Canberra Genie VMS

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CE 144	1	121.00	2.00	1.10	128.00	0.95	A
CO 57	1	11.90	0.20	0.19	12.00	0.99	A
CS 137	1	20.20	34.00	0.40	21.00	0.96	W
MN 54	1	17.60	0.40	0.19	17.00	1.04	A
BE 7	2	5.36	0.84	1.70	5.10	1.05	A
CE 144	2	7.88	0.47	0.80	8.00	0.99	A
NB 95	2	4.88	0.20	0.15	4.70	1.04	A
PB 210	2				3.30		ND
RU 103	2	4.78	0.18	0.21	4.70	1.02	A
ZR 95	2	2.07	0.15	0.31	2.00	1.04	A
BA 140	3	7.87	0.77	1.50	10.00	0.79	W
CE 141	3	1.31	0.21	0.52	1.30	1.00	A
CE 144	3	2.98	0.94	2.40	3.00	0.99	A
CS 134	3	5.41	0.16	0.29	5.40	1.00	A
CS 136	3	3.58	0.20	0.25	3.60	1.00	A
CS 137	3	5.41	0.22	0.30	5.90	0.92	W
DY 166	3				7.20		ND
I 131	3	17.40	0.30	0.37	16.20	1.07	A
NB 95	3	7.25	0.25	0.24	7.40	0.98	A
RU 103	3	5.74	0.25	0.42	6.00	0.96	A
SB 125	3	2.08	0.53	2.00	2.00	1.02	A
SB 126	3				3.10		ND
TE 132	3	29.80	0.30	0.33	23.00	1.30	W
XE 133	3	9.38	0.38	0.74	6.40	1.47	W
ZR 95	3	2.36	0.20	0.49	2.30	1.03	A

Evaluation by Laboratory

OD ORNL, Radiobioassay Lab

Software: Canberra PROCOUNT

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CD 109	1	8.00	2.70	4.00			FP
CE 144	1	125.90	7.70	1.10	128.00	0.98	A
CO 57	1	11.80	0.80	0.10	12.00	0.98	A
CS 137	1	21.10	1.60	0.30	21.00	1.00	A
I 125	1	252.50	30.80	5.60			FP
MN 54	1	17.50	1.10	0.10	17.00	1.03	A
BE 7	2	5.30	0.90	1.10	5.10	1.04	A
CE 144	2	7.90	0.70	0.70	8.00	0.99	A
I 125	2	14.90	2.60	3.10			FP
NB 95	2	4.80	0.40	0.10	4.70	1.02	A
PB 210	2				3.30		ND
RU 103	2	4.70	0.40	0.10	4.70	1.00	A
ZR 95	2	2.10	0.20	0.20	2.00	1.05	A
BA 140	3	7.70	0.70	1.10	10.00	0.77	W
CE 141	3	1.30	0.20	0.40	1.30	1.00	A
CE 144	3	3.00	1.00	1.90	3.00	1.00	A
CS 134	3	4.80	0.30	0.30	5.40	0.89	A
CS 136	3				3.60		ND
CS 137	3	5.70	0.50	0.30	5.90	0.97	W
DY 166	3				7.20		ND
I 125	3	22.00	4.00	6.40			FP
I 131	3	16.70	1.40	0.30	16.20	1.03	A
NB 95	3	7.10	0.50	0.20	7.40	0.96	A
RE 188	3	2.00	0.80	1.80			FP
RU 103	3	5.30	0.40	0.30	6.00	0.88	A
SB 125	3	2.10	0.40	0.80	2.00	1.05	A
SB 126	3				3.10		ND
TE 132	3	27.50	1.60	0.30	23.00	1.20	A
TH 230	3	104.30	28.20	56.80			FP
XE 133	3				6.40		ND
ZR 95	3	5.70	0.30	0.30	2.48	2.48	N

Evaluation by Laboratory

OT ORNL Radioactive Material Analysis Lab

Software: Canberra Genie VMS

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CE 144	1	120.00	10.00		128.00	0.94	A
CO 57	1	11.00	1.00		12.00	0.92	A
CS 137	1	18.00	1.00		21.00	0.86	N
MN 54	1	12.00	1.00		17.00	0.71	N
BE 7	2	3.80	1.20		5.10	0.75	W
CE 144	2	7.40	0.90		8.00	0.93	A
NB 95	2	2.70	0.40		4.70	0.57	W
PB 210	2				3.30		ND
RU 103	2	3.40	0.30		4.70	0.72	W
ZR 95	2	1.20	0.40		2.00	0.60	W
BA 140	3	5.40	1.00		10.00	0.54	W
CE 141	3	0.34	0.29		1.30	0.26	N
CE 141	3	1.20	0.30		1.30	0.92	A
CE 144	3	2.60	1.40		3.00	0.87	A
CS 134	3	3.30	0.40		5.40	0.61	N
CS 136	3	2.30	0.50		3.60	0.64	W
CS 137	3	3.50	0.50		5.90	0.59	N
DY 166	3				7.20		ND
I 131	3	15.00	1.00		16.20	0.93	A
NB 95	3	4.80	0.50		7.40	0.65	W
RU 103	3	4.10	0.40		6.00	0.68	W
SB 125	3				2.00		ND
SB 126	3	1.90	0.30		3.10	0.61	W
TE 132	3	27.00	1.00		23.00	1.17	A
XE 133	3				6.40		ND
ZR 95	3	1.30	0.40		2.30	0.57	W

Evaluation by Laboratory

RE Bechtel Nevada, Mercury, NV

Software: IN HOUSE

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CE 144	1	132.00	12.40	0.68	128.00	1.03	A
CO 57	1	12.40	1.23	0.09	12.00	1.03	A
CS 137	1	22.20	2.42	0.15	21.00	1.06	A
MN 54	1	18.00	2.01	0.17	17.00	1.06	A
BE 7	2	5.01	1.85	0.85	5.10	0.98	A
CE 144	2	8.14	1.55	0.68	8.00	1.02	A
NB 95	2	4.95	0.73	0.16	4.70	1.05	A
PB 210	2				3.30		ND
RU 103	2	4.54	0.64	0.11	4.70	0.97	A
ZR 95	2	2.22	0.54	0.28	2.00	1.11	A
BA 140	3	7.80	2.00	0.32	10.00	0.78	W
CE 141	3	1.32	0.49	0.16	1.30	1.02	A
CE 144	3	2.98	1.93	0.68	3.00	0.99	A
CS 134	3	5.32	0.83	0.11	5.40	0.99	A
CS 136	3	3.64	0.64	0.16	3.60	1.01	A
CS 137	3	5.83	0.93	0.15	5.90	0.99	A
DY 166	3				7.20		ND
I 131	3	15.70	1.66	0.10	16.20	0.97	A
NB 95	3	7.35	1.00	0.16	7.40	0.99	A
RU 103	3	5.48	0.84	0.11	6.00	0.91	A
SB 125	3	1.79	0.90	0.30	2.00	0.90	A
SB 126	3	4.14	0.68	0.14	3.10	1.34	W
TE 132	3	28.50	2.62	0.09	23.00	1.24	W
XE 133	3	8.52	1.24	0.38	6.40	1.33	W
ZR 95	3	2.35	0.64	0.28	2.30	1.02	A

Evaluation by Laboratory

SA Sandia Labs Radioactive Sample Diag. Prog., NM

Software: Canberra Genie PC

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CE 144	1	131.00	24.20	1.25	128.00	1.02	A
CO 57	1	12.50	2.35	0.17	12.00	1.04	A
CS 137	1	21.60	3.60	0.41	21.00	1.03	A
MN 54	1	17.90	2.88	0.18	17.00	1.05	A
BE 7	2	5.25	2.32	1.51	5.10	1.03	A
CE 144	2	7.93	1.78	1.15	8.00	0.99	A
NB 95	2	4.92	1.00	0.14	4.70	1.05	A
PB 210	2				3.30		ND
RU 103	2	4.65	1.03	0.18	4.70	0.99	A
ZR 95	2	2.22	0.87	0.25	2.00	1.11	A
BA 140	3	8.04	2.40	1.44	10.00	0.80	A
CE 141	3	1.33	0.59	0.51	1.30	1.02	A
CE 144	3				3.00		ND
CS 134	3	5.40	1.20	0.38	5.40	1.00	A
CS 136	3	3.65	1.18	0.25	3.60	1.01	A
CS 137	3	5.71	1.19	0.36	5.90	0.97	W
DY 166	3				7.20		ND
I 131	3	16.70	2.98	0.33	16.20	1.03	A
NB 95	3	7.29	1.74	0.25	7.40	0.99	A
RU 103	3	5.59	1.22	0.38	6.00	0.93	A
SB 125	3	2.10	0.95	1.09	2.00	1.05	A
SB 126	3	3.09	0.69	0.32	3.10	1.00	A
TE 132	3	27.60	4.92	0.30	23.00	1.20	W
XE 133	3	7.27	4.07	1.00	6.40	1.14	A
ZR 95	3	2.34	0.97	0.40	2.30	1.02	A

Evaluation by Laboratory

SI (QAP labcode IS) Quanterra Incorporated, Earth City, MO

Software: Canberra PROCOUNT

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
BA 133	1	4.15	0.66	1.07			FP
CE 144	1	561.00	7.00	5.00	128.00	4.38	N
CO 57	1	50.60	0.80	0.60	12.00	4.22	N
CS 137	1	74.40	1.50	1.10	21.00	3.54	N
I 129	1	122.00	5.00	10.00			FP
K 40	1	21.30	3.20	0.00			FP
MN 54	1	59.10	1.30	0.50	17.00	3.48	N
PB 212	1	8.00	0.60	1.16			FP
PB 214	1	9.40	1.42	1.71			FP
RA 228	1	7.81	0.82	0.00			FP
TL 208	1	7.05	0.66	1.05			FP
BA 133	2	4.51	0.41	0.87			FP
BE 7	2	19.90	3.10	4.60	5.10	3.90	N
CE 144	2	34.30	2.20	3.40	8.00	4.29	N
I 129	2	8.42	2.54	4.75			FP
K 40	2	21.30	3.20	0.00			FP
NB 95	2	16.50	0.70	0.30	4.70	3.51	N
PB 210	2	17.50	4.30	7.80	3.30	5.30	N
PB 212	2	8.14	4.89	0.90			FP
PB 214	2	15.80	1.40	1.50			FP
RA 228	2	7.99	0.79	0.00			FP
RU 103	2	17.50	0.70	0.50	4.70	3.72	N
TL 208	2	7.06	0.52	0.68			FP
ZR 95	2	7.08	0.50	0.59	2.00	3.54	N
BA 140	3	30.90	2.40	4.30	10.00	3.09	N
CE 141	3	5.65	0.91	1.90	1.30	4.35	N
CE 144	3	12.30	4.00	8.70	3.00	4.10	N
CS 134	3	18.30	0.60	1.40	5.40	3.39	N
CS 136	3	11.90	0.50	0.40	3.60	3.31	N
CS 137	3	19.90	0.80	1.10	5.90	3.37	N
DY 166	3				7.20		ND
I 129	3	36.90	5.50	10.60			FP
I 131	3	67.20	1.20	1.10	16.20	4.15	N
K 40	3	21.30	3.20	0.00			FP
NB 95	3	24.50	0.80	0.60	7.40	3.31	N
PB 210	3	214.00	11.00	19.00			FP
PB 212	3	5.60	0.95	2.21			FP
PB 214	3	6.91	1.11	2.46			FP
RA 228	3	19.60	4.85	1.56			FP
RU 103	3	21.10	0.90	1.20	6.00	3.52	N
SB 125	3	14.20	3.90	3.40	2.00	7.10	N
SB 126	3	12.50	0.50	0.90	3.10	1.03	N
TE 132	3	89.90	16.70	1.10	23.00	3.91	N
TL 208	3	6.79	0.74	1.26			FP
XE 133	3	27.70	1.40	2.20	6.40	4.33	N
XE133M	3	1043.00	116.00	9.00			FP
ZR 95	3	7.95	0.65	1.12	3.46	3.46	N

Evaluation by Laboratory

SL **Stanford Linear Accelerator, Menlow Park, CA**

Software: Canberra MICROSAMPO

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CE 144	1	132.50	5.40	0.90	128.00	1.04	A
CO 57	1	12.10	0.60	0.10	12.00	1.01	A
CS 137	1	21.80	1.30	0.20	21.00	1.04	A
MN 54	1	17.70	1.00	0.10	17.00	1.04	A
BE 7	2	5.40	0.60	0.90	5.10	1.06	A
CE 144	2	8.40	0.60	0.60	8.00	1.05	A
NB 95	2	4.90	0.30	0.70	4.70	1.04	A
PB 210	2				3.30		ND
RU 103	2	4.80	0.30	0.60	4.70	1.02	A
ZR 95	2	2.00	0.20	0.20	2.00	1.00	A
BA 140	3	8.40	0.40	0.80	10.00	0.84	A
CE 141	3	1.30	0.10	0.30	1.30	1.00	A
CE 144	3	3.00	0.50	2.00	3.00	1.00	A
CS 134	3	5.50	0.50	0.60	5.40	1.02	A
CS 136	3	3.70	0.30	0.09	3.60	1.03	A
CS 137	3	6.10	0.40	0.20	5.90	1.03	A
DY 166	3				7.20		ND
I 131	3	17.00	1.00	0.20	16.20	1.05	A
NB 95	3	7.30	0.50	0.10	7.40	0.99	A
RU 103	3	5.80	0.30	0.70	6.00	0.97	A
SB 122	3	0.90	0.20	0.60			FP
SB 125	3	1.40	0.10	0.70	2.00	0.70	W
SB 126	3	3.10	0.10	0.10	3.10	1.00	A
TE 132	3	130.00	5.20	1.00	23.00	5.65	N
XE 133	3	6.00	0.50	0.60	6.40	0.94	A
ZR 95	3	1.90	0.10	0.30	2.30	0.83	A

Evaluation by Laboratory

SR Savannah River Plant

Software: Canberra PROCOUNT

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CD 109	1	8.00	6.00	4.20			FP
CE 144	1	122.00	16.00	1.10	128.00	0.95	A
CO 57	1	12.00	1.00	0.10	12.00	1.00	A
CS 137	1	21.00	3.00	0.30	21.00	1.00	A
MN 54	1	18.00	2.00	0.20	17.00	1.06	A
NP 237	1	2.50	1.70	1.30			FP
BE 7	2	5.00	2.00	1.30	5.10	0.98	A
CE 144	2	8.00	2.00	0.80	8.00	1.00	A
NB 95	2	4.90	0.70	0.10	4.70	1.04	A
PB 210	2				3.30		ND
RU 103	2	4.60	0.80	0.20	4.70	0.98	A
ZR 95	2	2.10	0.40	0.20	2.00	1.05	A
BA 140	3	8.00	2.00	1.20	10.00	0.80	W
CE 141	3	1.30	0.40	0.40	1.30	1.00	A
CE 144	3	3.40	2.00	2.00	3.00	1.13	W
CS 134	3	5.30	0.50	0.30	5.40	0.98	A
CS 136	3	3.50	0.30	0.20	3.60	0.97	A
CS 137	3	5.70	0.90	0.30	5.90	0.97	W
DY 166	3				7.20		ND
I 131	3	16.00	2.00	0.30	16.20	0.99	A
NB 95	3	7.00	1.00	0.20	7.40	0.95	A
RU 103	3	5.50	1.00	0.30	6.00	0.92	A
SB 125	3	2.20	0.70	0.90	2.00	1.10	A
SB 126	3				3.10		ND
TE 132	3	26.00	5.00	0.20	23.00	1.13	A
XE 133	3				6.40		ND
ZR 95	3	2.40	0.40	0.40	2.30	1.04	A

Evaluation by Laboratory

TM TMA/Eberline-Albuquerque Lab, NM

Software: Nuclear Data ASAP

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CE 144	1	124.00	1.51	0.98	128.00	0.97	A
CO 57	1	11.60	0.18	0.19	12.00	0.97	A
CS 137	1	21.30	0.43	0.43	21.00	1.01	A
MN 54	1	17.40	0.37	0.17	17.00	1.02	A
BE 7	2	5.62	0.88	2.07	5.10	1.10	A
CE 144	2	7.91	0.50	0.95	8.00	0.99	A
NB 95	2	5.02	0.20	0.14	4.70	1.07	A
PB 210	2				3.30		ND
RU 103	2	4.92	0.18	0.21	4.70	1.05	A
ZR 95	2	2.21	0.20	0.26	2.00	1.11	A
BA 140	3	6.36	0.62	1.54	10.00	0.64	W
CE 141	3	1.32	0.21	0.64	1.30	1.02	A
CE 144	3	2.91	0.92	2.87	3.00	0.97	A
CS 134	3	5.25	0.24	0.45	5.40	0.97	A
CS 136	3				3.60		ND
CS 137	3	5.72	0.23	0.32	5.90	0.97	W
DY 166	3				7.20		ND
I 131	3				16.20		ND
NB 95	3	7.46	0.26	0.25	7.40	1.01	A
PR 144	3	268.00	11.30	21.90			FP
RU 103	3	5.92	0.26	0.50	6.00	0.99	A
SB 125	3				2.00		ND
SB 126	3				3.10		ND
TE 132	3				23.00		ND
XE 133	3				6.40		ND
ZR 95	3	2.32	0.25	0.47	2.30	1.01	A

Evaluation by Laboratory

UK

Lockheed Martin Energy Systems, Oak Ridge

Software: EG&G Ortec Maestro

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CD 109	1	10.70	0.34	2.81			FP
CE 144	1	132.00	3.00	0.86	128.00	1.03	A
CO 57	1	12.00	0.34	0.79	12.00	1.00	A
CS 137	1	21.00	0.80	0.18	21.00	1.00	A
MN 54	1	17.40	0.73	0.22	17.00	1.02	A
NP 237	1	3.51	1.00	0.95			FP
PB 208	1	0.41	0.25	0.06			FP
TE125M	1	12.70	2.30	3.03			FP
TH 234	1	7.00	2.30	1.86			FP
BE 7	2	5.24	1.30	1.34	5.10	1.03	A
CE 144	2	7.93	0.96	0.85	8.00	0.99	A
NB 95	2	4.77	0.37	0.19	4.70	1.01	A
PB 210	2	5.15	4.70	3.54	3.30	1.56	N
RU 103	2	4.71	0.33	0.14	4.70	1.00	A
TE125M	2	4.79	2.80	3.03			FP
ZR 95	2	2.05	0.28	0.34	2.00	1.03	A
BA 140	3				10.00		ND
CE 141	3				1.30		ND
CE 144	3				3.00		ND
CS 134	3				5.40		ND
CS 136	3				3.60		ND
CS 137	3				5.90		ND
DY 166	3				7.20		ND
I 131	3				16.20		ND
NB 95	3				7.40		ND
RU 103	3				6.00		ND
SB 125	3				2.00		ND
SB 126	3				3.10		ND
TE 132	3				23.00		ND
XE 133	3				6.40		ND
ZR 95	3				2.30		ND

Evaluation by Laboratory

UP

Lockheed Martin Energy Systems, Y-12 Plant, Oak Ridge

Software: Canberra PROCOUNT

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CE 144	1	121.50	21.70	1.10	128.00	0.95	A
CO 57	1	11.85	1.60	0.13	12.00	0.99	A
CS 137	1	21.18	3.17	0.34	21.00	1.01	A
MN 54	1	17.55	2.23	0.16	17.00	1.03	A
BE 7	2	5.32	1.85	1.34	5.10	1.04	A
CE 144	2	7.89	1.67	0.75	8.00	0.99	A
NB 95	2	4.85	0.75	0.12	4.70	1.03	A
PB 210	2				3.30		ND
RU 103	2	4.74	0.89	0.16	4.70	1.01	A
ZR 95	2	1.96	0.52	0.34	2.00	0.98	A
BA 140	3	9.02	4.67	4.86	10.00	0.90	A
CE 141	3	1.31	0.45	0.43	1.30	1.01	A
CE 144	3	2.98	1.94	1.98	3.00	0.99	A
CS 134	3	5.37	0.84	0.33	5.40	0.99	A
CS 136	3	3.56	0.59	0.21	3.60	0.99	A
CS 137	3	5.68	0.94	0.33	5.90	0.96	W
DY 166	3				7.20		ND
I 131	3	17.25	3.37	0.30	16.20	1.06	A
NB 95	3	7.20	1.08	0.19	7.40	0.97	A
RU 103	3	5.69	1.10	0.35	6.00	0.95	A
SB 125	3	2.23	0.89	0.92	2.00	1.14	A
SB 126	3	3.27	0.73	0.33	3.10	1.05	A
TE 132	3	29.62	5.46	0.27	23.00	1.29	W
XE 133	3	9.43	1.74	0.62	6.40	1.47	W
ZR 95	3	2.43	0.71	0.49	2.30	1.06	A

Evaluation by Laboratory

UY

Lockheed Martin Energy Systems, Y-12 Plant, Oak Ridge

Software: Canberra PROCOUNT

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CE 144	1	121.50	14.90	1.10	128.00	0.95	A
CO 57	1	11.84	1.60	0.13	12.00	0.99	A
CS 137	1	21.19	3.16	0.34	21.00	1.01	A
MN 54	1	17.56	2.22	0.16	17.00	1.03	A
BE 7	2	5.32	1.84	1.34	5.10	1.04	A
CE 144	2	7.89	1.33	0.75	8.00	0.99	A
NB 95	2	4.85	0.75	0.12	4.70	1.03	A
PB 210	2				3.30		ND
RU 103	2	4.74	0.72	0.16	4.70	1.01	A
ZR 95	2	1.96	0.51	0.34	2.00	0.98	A
BA 140	3	9.02	4.67	5.02	10.00	0.90	A
CE 141	3	1.31	0.44	0.43	1.30	1.01	A
CE 144	3	2.98	1.91	1.98	3.00	0.99	A
CS 134	3	5.37	0.83	0.32	5.40	0.99	A
CS 136	3	3.56	0.59	0.21	3.60	0.99	A
CS 137	3	5.69	0.94	0.33	5.90	0.96	W
DY 166	3				7.20		ND
I 131	3	17.26	3.34	0.30	16.20	1.07	A
NB 95	3	7.21	1.07	0.19	7.40	0.97	A
RU 103	3	5.70	0.90	0.35	6.00	0.95	A
SB 125	3	2.23	0.89	0.92	2.00	1.11	A
SB 126	3	3.27	0.71	0.66	3.10	1.05	A
TE 132	3	29.62	4.30	0.27	23.00	1.29	W
XE 133	3	9.43	1.78	0.58	6.40	1.47	W
ZR 95	3	2.43	0.70	0.49	2.30	1.05	A

Evaluation by Laboratory

WA

Environmental Radiation Lab, Off. of Public Health Labs. Seattle

Software: Canberra Genie VMS

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
AM 243	1	0.70	0.30	0.20			FP
CE 144	1	130.00	11.00	0.60	128.00	1.02	A
CO 57	1	12.30	1.10	0.10	12.00	1.03	A
CS 137	1	20.90	2.40	0.10	21.00	1.00	A
MN 54	1	17.60	2.10	0.10	17.00	1.04	A
BE 7	2	5.30	1.80	0.90	5.10	1.04	A
CE 144	2	8.00	1.30	0.60	8.00	1.00	A
NB 95	2	4.80	0.70	0.10	4.70	1.02	A
PB 210	2	4.40	4.00	2.60	3.30	1.33	W
RU 103	2	4.70	0.60	0.10	4.70	1.00	A
ZR 95	2	2.10	0.30	0.20	2.00	1.05	A
BA 140	3	7.90	1.40	0.70	10.00	0.79	W
CE 141	3	1.30	0.50	0.10	1.30	1.00	A
CE 144	3	3.10	2.00	0.60	3.00	1.03	A
CS 134	3	5.20	0.50	0.10	5.40	0.96	A
CS 136	3	3.70	0.30	0.10	3.60	1.03	A
CS 137	3	5.60	0.80	0.10	5.90	0.95	W
DY 166	3				7.20		ND
I 131	3	16.40	1.70	0.10	16.20	1.01	A
NB 95	3	7.10	1.00	0.10	7.40	0.96	A
PB 210	3	77.20	25.40	2.60			FP
RU 103	3	5.50	0.80	0.10	6.00	0.92	A
SB 125	3				2.00		ND
SB 126	3	3.00	0.30	0.10	3.10	0.97	A
TE 132	3	26.70	2.80	0.10	23.00	1.16	A
XE 133	3				6.40		ND
ZR 95	3	2.30	0.40	0.20	2.30	1.00	A

Evaluation by Laboratory

WC Westinghouse Hanford Co.

Software: Canberra Genie VMS

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CE 144	1	123.00	5.60	1.10	128.00	0.96	A
CO 57	1	12.20	0.60	0.14	12.00	1.02	A
CS 137	1	21.00	1.70	0.34	21.00	1.00	A
MN 54	1	17.70	1.10	0.16	17.00	1.04	A
BE 7	2	5.16	0.86	1.30	5.10	1.01	A
CE 144	2	8.03	0.65	0.77	8.00	1.00	A
NB 95	2	4.87	0.38	0.12	4.70	1.04	A
PB 210	2				3.30		ND
RU 103	2	4.68	0.31	0.16	4.70	1.00	A
ZR 95	2	2.05	0.18	0.21	2.00	1.03	A
BA 140	3	10.10	0.89	1.50	10.00	1.01	A
CE 141	3	1.35	0.23	0.44	1.30	1.04	A
CE 144	3	3.08	0.98	2.00	3.00	1.03	A
CS 134	3	5.25	0.27	0.23	5.40	0.97	A
CS 136	3	3.54	0.16	0.16	3.60	0.98	A
CS 137	3	5.64	0.49	0.33	5.90	0.96	W
DY 166	3				7.20		ND
I 131	3	16.30	0.90	0.28	16.20	1.01	A
NB 95	3	7.24	0.55	0.19	7.40	0.98	A
RU 103	3	5.63	0.39	0.34	6.00	0.94	A
SB 125	3	2.09	0.35	0.87	2.00	1.05	A
SB 126	3	2.99	0.14	0.28	3.10	0.96	A
TE 132	3	26.10	1.50	12.00	23.00	1.13	A
XE 133	3	9.30	0.70	0.61	6.40	1.45	W
ZR 95	3	2.32	0.22	0.36	2.30	1.01	A

Evaluation by Laboratory

WN

WINCO, Idaho Chemical Processing Plant, Scoville

Software: IN HOUSE

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CE 144	1	135.00	18.30	0.90	128.00	1.05	A
CO 57	1				12.00		ND
CO 58	1	12.50	1.30	0.10			FP
CS 137	1	21.80	2.80	0.30	21.00	1.04	A
MN 54	1	17.50	2.20	0.10	17.00	1.03	A
BE 7	2	5.50	0.60	1.30	5.10	1.08	A
CE 144	2	8.30	1.10	0.70	8.00	1.04	A
NB 95	2	4.90	0.60	0.10	4.70	1.04	A
PB 210	2				3.30		ND
RU 103	2	4.80	0.80	0.20	4.70	1.02	A
ZR 95	2	2.30	0.20	0.20	2.00	1.15	A
BA 140	3	7.80	1.80	1.00	10.00	0.78	W
CE 141	3	1.30	1.80	0.40	1.30	1.00	A
CE 144	3	3.00	0.40	1.80	3.00	1.00	A
CS 134	3	5.40	0.60	0.20	5.40	1.00	A
CS 136	3	3.40	0.40	0.20	3.60	0.94	A
CS 137	3	5.40	0.60	0.30	5.90	0.92	W
DY 166	3				7.20		ND
I 131	3	15.60	1.90	0.20	16.20	0.96	A
NB 95	3	7.30	0.20	0.90	7.40	0.99	A
RU 103	3	5.70	0.80	0.30	6.00	0.95	A
SB 125	3				2.00		ND
SB 126	3	3.10	0.30	0.30	3.10	1.00	A
TE 132	3	25.50	3.50	0.20	23.00	1.11	A
XE 133	3				6.40		ND
ZR 95	3	2.30	0.30	0.30	2.30	1.00	A

Evaluation by Laboratory

YA Yankee Atomic Electric Company, Westboro, MA

Software: Vertechs GDR/P 3.1

<u>Nuclide</u>	<u>Sample</u>	<u>Value</u>	<u>Error</u>	<u>MDA</u>	<u>EML Value</u>	<u>Ratio</u>	<u>Evaluation</u>
CE 144	1	137.90	1.56	1.03	128.00	1.08	A
CO 57	1	12.75	0.17	0.20	12.00	1.06	A
CS 137	1	22.10	0.42	0.46	21.00	1.05	A
MN 54	1	17.94	0.38	0.18	17.00	1.06	A
BE 7	2	5.93	0.74	1.79	5.10	1.16	A
CE 144	2	8.57	0.46	0.80	8.00	1.07	A
NB 95	2	4.98	0.19	0.13	4.70	1.06	A
PB 210	2				3.30		ND
RU 103	2	5.43	0.19	0.23	4.70	1.16	A
ZR 95	2	2.15	0.13	0.24	2.00	1.08	A
BA 140	3	8.59	0.51	1.59	10.00	0.86	A
CE 141	3	1.36	0.18	0.59	1.30	1.05	A
CE 144	3	3.02	0.82	2.96	3.00	1.01	A
CS 134	3	5.48	0.15	0.29	5.40	1.01	A
CS 136	3	3.60	0.10	0.16	3.60	1.00	A
CS 137	3	5.87	0.23	0.34	5.90	0.99	A
DY 166	3				7.20		ND
I 131	3	16.29	0.27	0.96	16.20	1.01	A
NB 95	3	7.40	0.24	0.22	7.40	1.00	A
PB 210	3	35.25	2.33	6.16			FP
RU 103	3	6.52	0.24	0.48	6.00	1.09	A
SB 125	3	2.24	0.27	0.96	2.00	1.12	A
SB 126	3	3.22	0.08	0.24	3.10	1.04	A
TE 132	3	25.55	0.25	0.30	23.00	1.11	A
XE 133	3	8.71	0.36	1.02	6.40	1.36	W
ZR 95	3	2.45	0.16	0.42	2.30	1.07	A