TMA
Thermo Analytical Inc.

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August 15, 1991

Ref: Ebasco Contract No. DS-1070-RFE19
Report No. RF036
TMA/Norcal N1-05-208-534

Ms. Karen Schoendaller
EG&G Rocky Flats, Inc.
Environmental Restoration Dept.
Bldg. T130B
P.O. Box 464
Golden, CO 80402-0464

Subject: Radiological Analyses of Sock Filter Samples from Rocky Flats, Report RF036

Dear Ms. Schoendaller:

Eight sock filter composite samples from Rocky Flats were analyzed for gross alpha, gross beta, isotopic uranium, $^{239,240}Pu$ and ^{241}Am.

The results for all but two ^{241}Am have ben added to my report of 26 July 1991. The results are pCi/g of dry filter. The data package, prepared according to GRAASP protocol, will be sent when the results are all complete.

The result analysis for SS00270ST had a low yield and was realiquoted. The result should be ready next week. However, there was a QC split on SS00270S7 and the ^{241}Am result is 0.009 ± 0.010 pCi/g. The split results agree well for the other analyses, i.e., gross alpha, gross beta, Uranium, and Plutonium.

The analysis for SS00339ST is complete and I thought the result was available. However, the alpha spectrum was not satisfactory, so I did not list the result. The sample must be recounted.

The result for the unexposed sock filter material is also included for your information. It will be reported as our QC blank in our final report.

Please contact me if you have any questions.

Sincerely,

Robert A. Wessman

Robert A. Wessman, Manager
Nuclear Projects

RAW/ss

Enclosures: Data Table

TMA I. D.	0000-0534-001		0000-0534-002		0000-0534-003	
Cust. I.D.	SS00268ST		SS00270ST		SS00272ST	
Coll. Date	15-MAY-91		15-MAY-91		15-MAY-91	
Analysis	pCi/g +/- 2 σ		pCi/g +/- 2 σ		pCi/g +/- 2 σ	
Gross Alpha	2.772	0.840	4.865	1.443	9.203	1.892
Gross Beta	2.923	0.391	4.732	0.678	7.335	0.786
U-233,234	0.142	0.025	0.158	0.025	0.202	0.025
U-235	0.009	0.007	0.011	0.008	0.016	0.008
U-238	0.143	0.024	0.205	0.028	0.233	0.027
Sr-89,90						
Pu-239,240	0.033	0.011	0.027	0.010	0.077	0.015
Am-241	0.022	0.012	0.009	0.010	0.020	0.012
Cs-137						
Tritium						
Ra-226						
Cm-244						

TMA I. D.	0000-0534-004		0000-0534-005		0000-0534-006	
Cust. I.D.	SS00274ST		SS00276ST		SS00278ST	
Coll. Date	15-MAY-91		15-MAY-91		15-MAY-91	
Analysis	pCi/g +/- 2 σ		pCi/g +/- 2 σ		pCi/g +/- 2 σ	
Gross Alpha	12.550	2.232	3.482	1.130	4.231	1.011
Gross Beta	16.900	1.082	4.968	0.585	3.938	0.454
U-233,234	0.204	0.021	0.207	0.024	0.116	0.018
U-235	0.011	0.006	0.008	0.006	0.011	0.007
U-238	0.242	0.023	0.200	0.024	0.163	0.021
Sr-89,90						
Pu-239,240	0.091	0.019	0.056	0.021	0.095	0.023
Am-241	0.070	0.019	0.037	0.014	0.072	0.029
Cs-137						
Tritium						
Ra-226						
Cm-244						

TMA I. D.	0000-0534-007		0000-0534-008		0000-0534-009	
Cust. I.D.	SS00338ST		SS00339ST		blank sock	
Coll. Date	15-MAY-91		15-MAY-91			
Analysis	pCi/g +/- 2 σ		pCi/g +/- 2 σ		pCi/g +/- 2 σ	
Gross Alpha	3.448	0.929	2.649	0.758	0.020	0.012
Gross Beta	5.015	0.523	3.272	0.376	0.027	0.006
U-233,234	0.099	0.017	0.117	0.019	0.005	0.004
U-235	0.005	0.005	0.011	0.007	0.000	0.002
U-238	0.120	0.019	0.152	0.022	0.004	0.004
Sr-89,90						
Pu-239,240	0.215	0.032	0.212	0.033	0.004	0.005
Am-241	0.039	0.014	0.055	0.014	0.002	0.006
Cs-137						
Tritium						
Ra-226						
Cm-244						