



U. S. Department of Energy – Idaho Operations Office

RADIOLOGICAL AND ENVIRONMENTAL SCIENCES LABORATORY

2251 North Boulevard, MS 2112 | Idaho Falls, ID 83415

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CONFIRMATORY MEASUREMENT REPORT

FOR

U.S. NUCLEAR REGULATORY COMMISSION

11545 Rockville Pike, MS T-5 A10

Rockville, Maryland 20852

The results listed in this report are only applicable to the aliquot(s) taken from the sample(s) as received.

The sample information is logged into the sample analysis database as received; RESL is not responsible for the validity of the data provided by the customer.

The sample(s) are analyzed in the same condition as received. RESL assumes no responsibility for the sampling, handling, preservation, or transportation of samples provided for analyses.

All analytical radiochemistry was performed at RESL facilities by qualified personnel using current validated technical procedures that are directly applicable to the specific analyses.

Any additions to, deviations, or exclusions from the procedure or process are noted as such in the report.

This report is authorized by the RESL Senior Technical Manager for Chemistry (STM-C). Information regarding the technical aspects of this report may be obtained from Mr. David S. Sill, STM-C at: sillds@id.doe.gov or 208-526-8031.

Approved By:

David S. Sill, STM-C
DOE-ID, RESL



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Sample ID: SU 3.1	Matrix: Soil	Site Name: Dept. of Health and Human Services - FDA - Winchester MA	Contact: Steve Hammann
		Nuclide	Results
		Cs-137	3 +/- 4 E-3 pCi/g
		Ra-226	2.1 +/- 0.2 E0 pCi/g
		Ra-228	7.8 +/- 0.8 E-1 pCi/g
		Th-228	1.20 +/- 0.12 E0 pCi/g
		Th-230	1.73 +/- 0.17 E0 pCi/g
		Th-232	1.10 +/- 0.11 E0 pCi/g
		U-234	1.69 +/- 0.17 E0 pCi/g
		U-238	1.65 +/- 0.17 E0 pCi/g
Sample ID: SU 3.12	Matrix: Soil	Site Name: Dept. of Health and Human Services - FDA - Winchester MA	Contact: Steve Hammann
		Nuclide	Results
		Cs-137	2 +/- 2 E-3 pCi/g
		Ra-226	2.0 +/- 0.6 E-1 pCi/g
		Ra-228	6.8 +/- 1.0 E-1 pCi/g
		Th-228	6.0 +/- 0.6 E-1 pCi/g
		Th-230	5.9 +/- 0.6 E-1 pCi/g
		Th-232	5.0 +/- 0.5 E-1 pCi/g
		U-234	6.3 +/- 0.6 E-1 pCi/g
		U-238	5.7 +/- 0.6 E-1 pCi/g

Samples Approved by: _____  _____

ACTIVITIES ARE AS OF: 02/25/2019 UNCERTAINTIES ARE ONE SIGMA



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Sample ID: SU 3.13

Matrix: Soil Site Name: Dept. of Health and Human Services - FDA - Winchester MA Contact: Steve Hammann

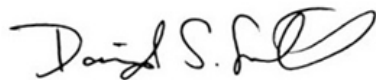
	Nuclide	Results
	Cs-137	9 +/- 4 E-3 pCi/g
	Ra-226	6 +/- 1 E-1 pCi/g
	Ra-228	1.22 +/- 0.09 E0 pCi/g
	Th-228	3.8 +/- 0.4 E0 pCi/g
	Th-230	8.4 +/- 0.8 E-1 pCi/g
	Th-232	3.8 +/- 0.4 E0 pCi/g
	U-234	1.20 +/- 0.12 E0 pCi/g
	U-238	9.5 +/- 1.0 E-1 pCi/g

Sample ID: SU 3.3C

Matrix: Soil Site Name: Dept. of Health and Human Services - FDA - Winchester MA Contact: Steve Hammann

	Nuclide	Results
	Cs-137	1 +/- 3 E-3 pCi/g
	Ra-226	1.00 +/- 0.10 E0 pCi/g
	Ra-228	6.4 +/- 0.6 E-1 pCi/g
	Th-228	7.6 +/- 0.8 E-1 pCi/g
	Th-230	1.45 +/- 0.14 E0 pCi/g
	Th-232	7.1 +/- 0.7 E-1 pCi/g
	U-234	1.16 +/- 0.12 E0 pCi/g
	U-238	1.31 +/- 0.13 E0 pCi/g

Samples Approved by: _____



ACTIVITIES ARE AS OF: 02/25/2019

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Sample ID: SU 3.5	Matrix: Soil	Site Name: Dept. of Health and Human Services - FDA - Winchester MA	Contact: Steve Hammann
		Nuclide	Results
		Cs-137	4.4 +/- 0.5 E-2 pCi/g
		Ra-226	4.6 +/- 0.2 E0 pCi/g
		Ra-228	5.5 +/- 0.4 E-1 pCi/g
		Th-228	1.03 +/- 0.10 E0 pCi/g
		Th-230	7.3 +/- 0.7 E0 pCi/g
		Th-232	8.0 +/- 0.8 E-1 pCi/g
		U-234	7.9 +/- 0.8 E0 pCi/g
		U-238	8.4 +/- 0.8 E0 pCi/g
Sample ID: SU 5.2	Matrix: Soil	Site Name: Dept. of Health and Human Services - FDA - Winchester MA	Contact: Steve Hammann
		Nuclide	Results
		Cs-137	4.6 +/- 0.5 E-1 pCi/g
		Ra-226	7 +/- 1 E-1 pCi/g
		Ra-228	7.2 +/- 0.7 E-1 pCi/g
		Th-228	1.08 +/- 0.11 E0 pCi/g
		Th-230	1.21 +/- 0.12 E0 pCi/g
		Th-232	1.06 +/- 0.11 E0 pCi/g
		U-234	9.6 +/- 1.0 E-1 pCi/g
		U-238	1.06 +/- 0.11 E0 pCi/g

Samples Approved by: _____  _____

ACTIVITIES ARE AS OF: 02/25/2019 UNCERTAINTIES ARE ONE SIGMA

