

QAP 58 Results by Laboratory**Lab: SR Savannah River Environmental Laboratory**

No. Test	Radionuclide	Reported Value	Reported Error	EML Value	EML Error	Reported EML	Evaluation	QAP 56 Evaluation
Matrix: AI Air Filter Bq / filter								
1	AM241	0.286	0.037	0.340	0.040	0.841	W	A
	CO60	37.800	2.500	33.500	0.870	1.128	W	W
	CS137	117.000	12.100	99.700	2.300	1.174	W	A
	Gross Alpha	1.130	0.120	1.170	0.120	0.966	A	W
	Gross Beta	1.680	0.110	1.500	0.150	1.120	A	W
	MN54	50.000	4.600	43.800	1.130	1.142	A	A
	PU238	0.515	0.074	0.520	0.010	0.990	A	W
	PU239	0.331	0.048	0.330	0.010	1.003	A	A
	SR90	3.190	0.320	2.800	0.140	1.139	A	A
	U234	0.253	0.036	0.240	0.003	1.054	A	A
	U238	0.254	0.036	0.240	0.010	1.058	A	A
Matrix: SO Soil Bq / kg								
	AC228	43.000	6.800	57.600	2.500	0.747	N	W
	AM241	14.790	1.360	15.600	1.000	0.948	A	A
	BI212	34.500	6.700	60.600	4.000	0.569	W	W
	BI214	58.900	4.000	67.000	2.300	0.879	A	A
	CS137	1400.000	142.000	1450.000	73.000	0.966	A	A
	K40	623.000	58.000	636.000	33.000	0.980	A	A
	PB212	40.300	5.400	57.900	2.900	0.696	N	N
	PB214	59.000	4.700	71.100	2.300	0.830	W	A
	PU239	25.520	4.300	23.400	1.100	1.091	A	A
	SR90	47.000	14.000	64.400	3.100	0.730	W	A
	TH234	102.000	16.000	127.000	7.100	0.803	W	A
	U234	132.600	21.800	120.000	0.500	1.105	W	N
	U238	136.900	21.300	125.000	0.300	1.095	A	N
Matrix: VE Vegetation Bq / kg								
1	AM241	3.155	0.511	3.510	0.130	0.899	A	A
1	CM244	2.349	0.426	2.010	0.100	1.169	A	A
1	CO60	12.400	1.500	12.100	0.700	1.025	A	W
	CS137	440.000	45.000	444.000	22.000	0.991	A	A
	K40	1120.000	106.000	1120.000	60.000	1.000	A	A
	PU239	4.780	0.740	5.170	0.520	0.925	A	A
	SR90	776.000	70.000	650.000	27.000	1.194	W	N
Matrix: WA Water Bq / L								
	AM241	2.340	0.330	2.130	0.150	1.099	A	A
	CO60	237.000	14.000	234.000	8.400	1.013	A	A
	CS134	27.100	1.600	30.500	1.090	0.889	W	A
	CS137	64.200	6.800	63.800	3.400	1.006	A	A
	Gross Alpha	249.000	55.000	377.500	10.000	0.660	W	A
	Gross Beta	644.000	68.000	627.500	10.000	1.026	A	A

Values for elemental uranium are reported in µg/filter, g, or mL. pCi/g or mL=Bq x 0.027**Evaluation: A=Acceptable, W=Acceptable with Warning, N=Not Acceptable****If the evaluation system is not appropriate for the types of analyses performed in your lab, apply a site specific evaluation.**

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No. Test	Radionuclide	Reported Value	Reported Error	EML Value	EML Error	Reported EML	Evaluation	QAP 56 Evaluation
Matrix: WA Water Bq / L								
	H3	372.000	18.000	390.000	3.400	0.954	A	A
	PU238	3.670	0.530	3.330	0.300	1.102	W	A
	PU239	4.380	0.610	3.920	0.300	1.117	W	A
	SR90	4.350	0.940	4.340	0.200	1.002	A	A
	U234	2.360	0.350	2.050	0.190	1.151	A	W
	U238	2.450	0.350	2.160	0.210	1.134	A	W

Values for elemental uranium are reported in µg/filter, g, or mL. pCi/g or mL=Bq x 0.027

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