

SU 1 and SU 12 Volumetric Sample Results

Attachment L

Mark I Reactor Pit (SU 1)

Sample Name	Nuclide	Result (pCi/g)
Mkl-1-Conc-01	Eu-152	ND
Mkl-1-Conc-02	Eu-152	ND
Mkl-1-Conc-03	Eu-152	ND
Mkl-1-Conc-04	Eu-152	ND
Mkl-1-Conc-05	Eu-152	ND
Mkl-1-Conc-06	Eu-152	ND
Mkl-1-Conc-07	Eu-152	ND
Mkl-1-Conc-08	Eu-152	ND
Mkl-1-Conc-09	Eu-152	ND
Mkl-1-Conc-10	Eu-152	ND
Mkl-1-Conc-11	Eu-152	ND
Mkl-1-Conc-12	Eu-152	ND
Mkl-1-Conc-13	Eu-152	ND
Mkl-1-Conc-14	Eu-152	ND
Mkl-1-Conc-15	Eu-152	ND
Mkl-1-Conc-16	Eu-152	ND
Mkl-1-Conc-17	Eu-152	ND
Mkl-1-Conc-18	Eu-152	ND
Mkl-1-Conc-19	Eu-152	ND
Mkl-1-Conc-20	Eu-152	ND
Mkl-1-Soil-21	Eu-152	ND
Mkl-1-Soil-22	Eu-152	0.976
Mkl-1-Soil-23	Eu-152	ND
Mkl-1-Soil-24	Eu-152	ND
Mkl-1-Soil-25	Eu-152	ND
Mkl-1-Soil-26	Eu-152	ND
Mkl-1-Soil-27	Eu-152	ND
Mkl-1-Soil-28	Eu-152	ND
Mkl-1-Soil-29	Eu-152	ND
Mkl-1-Soil-30	Eu-152	ND
Mkl-1-Soil-31	Eu-152	ND
Mkl-1-Soil-32	Eu-152	ND
Mkl-1-Soil-33	Eu-152	ND
Mkl-1-Soil-34	Eu-152	0.402
Mkl-1-Soil-35	Eu-152	1.035
Mkl-1-Soil-36	Eu-152	0.587
Mkl-1-Soil-37	Eu-152	0.608
Mkl-1-Soil-38	Eu-152	0.865
Mkl-1-Soil-39	Eu-152	0.409

Average (pCi/g) 0.70
 Standard Deviation 0.26
 Minimum (pCi/g) 0.40
 Maximum (pCi/g) 1.04
 Relative Shift 13.38
 Required Samples 14
 Samples Collected 39

Backyard (SU 12)

Sample Name	Nuclide	Result* (pCi/g)
GA-12-SOIL-01	Cs-137	0.449
GA-12-SOIL-02	Cs-137	0.313
GA-12-SOIL-03	Cs-137	0.330
GA-12-SOIL-04	Cs-137	0.116
GA-12-SOIL-05	Cs-137	0.421
GA-12-SOIL-06	Cs-137	0.182
GA-12-SOIL-07	Cs-137	0.030
GA-12-SOIL-08	Cs-137	0.671
GA-12-SOIL-09	Cs-137	0.123
GA-12-SOIL-10	Cs-137	0.302
GA-12-SOIL-11	Cs-137	0.182
GA-12-SOIL-12	Cs-137	0.182
GA-12-SOIL-13	Cs-137	0.182
GA-12-SOIL-14	Cs-137	0.182
GA-12-SOIL-15	Cs-137	0.182
GA-12-SOIL-16	Cs-137	0.182
GA-12-SOIL-17	Cs-137	0.052
GA-12-SOIL-18	Cs-137	0.182
GA-12-SOIL-19	Cs-137	0.319
GA-12-SOIL-20	Cs-137	0.182
GA-12-SOIL-21	Cs-137	0.182
GA-12-SOIL-22	Cs-137	0.182
GA-12-SOIL-23	Cs-137	0.182
GA-12-SOIL-24	Cs-137	0.179
GA-12-SOIL-25	Cs-137	0.182
GA-12-SOIL-26	Cs-137	0.182
GA-12-SOIL-27	Cs-137	0.182
GA-12-SOIL-28	Cs-137	0.182
GA-12-SOIL-29	Cs-137	0.182
GA-12-SOIL-30	Cs-137	0.448
GA-12-SOIL-31	Cs-137	0.182
GA-12-SOIL-32	Cs-137	0.182
GA-12-CONC-33	Cs-137	0.182
GA-12-SOIL-34	Cs-137	0.182

* - MDA for Cs-137 is 0.182 pCi/g.

Average (pCi/g) 0.22
 Standard Deviation 0.12
 Minimum (pCi/g) 0.03
 Maximum (pCi/g) 0.67
 Relative Shift 44.60
 Required Samples 14
 Samples Collected 34