

Laboratory Results For MAPEP Series 41
(ELIW01) Energy Laboratories, Inc.
2393 Salt Creek HWY
Casper, Wy 82601

MAPEP-19-GrW41: Gross alpha/beta water

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Gross alpha	0.735	1.06	A		-30.7	0.32 - 1.80	0.0815	A
Gross beta	3.29	3.32	A		-0.9	1.66 - 4.98	0.176	A

Radiological Reference Date: August 1, 2019

MAPEP-19-MaW41: Radiological and inorganic combined water standard

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.522				0.365 - 0.679		
Cesium-134	NR					False Positive Test		
Cesium-137	NR	18.4				12.9 - 23.9		
Cobalt-57	NR	15.6				10.9 - 20.3		
Cobalt-60	NR	8.8				6.2 - 11.4		
Hydrogen-3	NR	175				123 - 228		
Iron-55	NR	15.7				11.0 - 20.4		
Manganese-54	NR	20.6				14.4 - 26.8		
Nickel-63	NR	9.7				6.8 - 12.6		
Plutonium-238	NR	0.0063				Sensitivity Evaluation		
Plutonium-239/240	NR	0.727				0.509 - 0.945		
Potassium-40	NR					False Positive Test		
Radium-226	0.228	0.307	W		-25.7	0.215 - 0.399	0.0250	A
Strontium-90	NR	10.6				7.4 - 13.8		
Technetium-99	NR					False Positive Test		
Uranium-234	1.05	1.07	A		-1.9	0.75 - 1.39	0.102	A
Uranium-238	1.11	1.05	A		5.7	0.74 - 1.37	0.108	A
Zinc-65	NR	20.3				14.2 - 26.4		

Radiological Reference Date: August 1, 2019