



Laboratory Results For MAPEP Series 47

(ELIW01) Energy Laboratories, Inc.

2393 Salt Creek HWY

Casper, Wy 82601

MAPEP-22-GrW47: Gross alpha/beta water

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Gross alpha	0.7	0.871	A		-19.6	0.261 - 1.481	0.1	A
Gross beta	5.3	5.20	A		1.9	2.60 - 7.80	0.3	A

Radiological Reference Date: August 1, 2022

MAPEP-22-MaW47: 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	0.327				0.229 - 0.425		
Cesium-134	NR	17.1				12.0 - 22.2		
Cesium-137	NR	16.8				11.8 - 21.8		
Cobalt-57	NR	30.0				21.0 - 39.0		
Cobalt-60	NR	17.0				11.9 - 22.1		
Hydrogen-3	NR	395				277 - 514		
Iron-55	NR	27.8				19.5 - 36.1		
Manganese-54	NR					False Positive Test		
Nickel-63	NR	32.9				23.0 - 42.8		
Plutonium-238	NR	0.985				0.690 - 1.281		
Plutonium-239/240	NR	1.070				0.749 - 1.391		
Potassium-40	NR					False Positive Test		
Radium-226	0.2	0.511	N		-60.9	0.358 - 0.664	0.025	A
Strontium-90	NR	7.73				5.41 - 10.05		
Technetium-99	NR					False Positive Test		
Uranium-234	1.4	1.37	A		2.2	0.96 - 1.78	0.15	A
Uranium-238	0.9	0.84	A		7.1	0.59 - 1.09	0.1	A
Zinc-65	NR	11.3				7.9 - 14.7		

Radiological Reference Date: August 1, 2022