

Laboratory Results For MAPEP Series 46
(ELIW01) Energy Laboratories, Inc.
2393 Salt Creek HWY
Casper, Wy 82601

MAPEP-22-GrW46: Gross alpha/beta water

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Gross alpha	0.9	0.574	A		56.8	0.172 - 0.976	0.1	A
Gross beta	9.2	7.25	A		26.9	3.63 - 10.88	0.45	A

Radiological Reference Date: February 1, 2022

MAPEP-22-MaW46: 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	0.355				0.249 - 0.462		
Cesium-134	NR					False Positive Test		
Cesium-137	NR	7.64				5.35 - 9.93		
Cobalt-57	NR	36.0				25.2 - 46.8		
Cobalt-60	NR	9.3				6.5 - 12.1		
Hydrogen-3	NR	300				210 - 390		
Iron-55	NR	15.2				10.6 - 19.8		
Manganese-54	NR	18.9				13.2 - 24.6		
Nickel-63	NR	34.0				23.8 - 44.2		
Plutonium-238	NR	1.07				0.75 - 1.39		
Plutonium-239/240	NR	1.19				0.83 - 1.55		
Potassium-40	NR					False Positive Test		
Radium-226	0.2	0.8	N		-75.0	0.6 - 1.0	0.025	A
Strontium-90	NR	12.9				9.0 - 16.8		
Technetium-99	NR	7.9				5.5 - 10.3		
Uranium-234	1.4	1.5	A		-6.7	1.1 - 2.0	0.15	A
Uranium-238	1.1	1.54	W		-28.6	1.08 - 2.00	0.1	A
Zinc-65	NR	26.2				18.3 - 34.1		

Radiological Reference Date: February 1, 2022