

Laboratory Results For MAPEP Series 50
(ELIW01) Energy Laboratories, Inc.
2393 Salt Creek HWY
Casper, Wy 82601

MAPEP-24-GrW50: Gross alpha/beta water

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Gross alpha	0.6882	1.01	A		-31.9	0.30 - 1.72	0.0777	A
Gross beta	5.328	5.57	A		-4.3	2.79 - 8.36	0.2757	A

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MAPEP-24-MaW50: Radiological and inorganic combined water standard

Inorganic							Units: (mg/L)	
Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR					False Positive Test		
Cesium-134	NR					False Positive Test		
Cesium-137	NR	9.7				6.8 - 12.6		
Cobalt-57	NR	25.4				17.8 - 33.0		
Cobalt-60	NR	10.27				7.19 - 13.35		
Hydrogen-3	NR	637				446 - 828		
Iron-55	NR	19.7				13.8 - 25.6		
Manganese-54	NR	7.36				5.15 - 9.57		
Nickel-63	NR	0.8				Sensitivity Evaluation		
Plutonium-238	NR	0.745				0.522 - 0.969		
Plutonium-239/240	NR	0.769				0.538 - 1.000		
Potassium-40	NR					False Positive Test		
Radium-226	0.3996	0.310	W		28.9	0.217 - 0.403	0.0426	A
Strontium-90	NR	3.68				2.58 - 4.78		
Technetium-99	NR	7.47				5.23 - 9.71		
Uranium-234	0.9842	0.990	A		-0.6	0.693 - 1.287	0.0962	A
Uranium-238	1.0175	1.028	A		-1.0	0.720 - 1.336	0.0999	A
Zinc-65	NR					False Positive Test		