

Laboratory Results For MAPEP Series 49  
(ELIW01) Energy Laboratories, Inc.  
2393 Salt Creek HWY  
Casper, Wy 82601

MAPEP-23-GrW49: Gross alpha/beta water

Radiological								Units: (Bq/L)
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Gross alpha	1.4	1.59	A		-12.0	0.48 - 2.70	0.15	A
Gross beta	15.3	16.27	A		-6.0	8.14 - 24.41	0.8	A

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MAPEP-23-MaW49: 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	11.3				7.9 - 14.7		
Cesium-137	NR	8.7				6.1 - 11.3		
Cobalt-57	NR	19.3				13.5 - 25.1		
Cobalt-60	NR					False Positive Test		
Hydrogen-3	NR					False Positive Test		
Iron-55	NR	41.1				28.8 - 53.4		
Manganese-54	NR	12.7				8.9 - 16.5		
Nickel-63	NR	1.11				Sensitivity Evaluation		
Plutonium-238	NR	0.726				0.508 - 0.944		
Plutonium-239/240	NR	0.784				0.549 - 1.019		
Potassium-40	NR					False Positive Test		
Radium-226	0.5	0.650	W		-23.1	0.455 - 0.845	0.05	A
Strontium-90	NR	7.31				5.12 - 9.50		
Technetium-99	NR	8.85				6.20 - 11.51		
Uranium-234	0.6	0.67	A		-10.4	0.47 - 0.87	0.05	A
Uranium-238	0.6	0.67	A		-10.4	0.47 - 0.87	0.05	A
Zinc-65	NR	19.1				13.4 - 24.8		