

Laboratory Results For MAPEP Series 42

(ELIW01) Energy Laboratories, Inc.

2393 Salt Creek HWY

Casper, Wy 82601

MAPEP-20-GrW42: Gross alpha/beta water

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Gross alpha	0.062	1.03	N		-94.0	0.31 - 1.75	0.036	N
Gross beta	-0.18	4.24	N		-104.2	2.12 - 6.36	0.033	N

Radiological Reference Date: February 1, 2020

MAPEP-20-MaW42: 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	0.547				0.383 - 0.711		
Cesium-134	NR	18.5				13.0 - 24.1		
Cesium-137	NR	11.3				7.9 - 14.7		
Cobalt-57	NR	19.7				13.8 - 25.6		
Cobalt-60	NR	10.6				7.4 - 13.8		
Hydrogen-3	NR	196				137 - 255		
Iron-55	NR	17.8				12.5 - 23.1		
Manganese-54	NR	19.6				13.7 - 25.5		
Nickel-63	NR	11.1				7.8 - 14.4		
Plutonium-238	NR	0.94				0.66 - 1.22		
Plutonium-239/240	NR	0.737				0.516 - 0.958		
Potassium-40	NR					False Positive Test		
Radium-226	0.41	0.365	A		12.3	0.256 - 0.475	0.041	A
Strontium-90	NR					False Positive Test		
Technetium-99	NR	3.63				2.54 - 4.72		
Uranium-234	0.89	0.97	A		-8.2	0.68 - 1.26	0.085	A
Uranium-238	0.65	0.95	N		-31.6	0.67 - 1.24	0.065	A
Zinc-65	NR	22.2				15.5 - 28.9		

Radiological Reference Date: February 1, 2020