



Redmond Clay™ Elemental Analysis

Element	PPM	%	Element	PPM	%
Aluminum	77,500	7.750000%	Manganese	331	0.033100%
Antimony	15.1	0.001510%	Molybdenum	0.084	0.000008%
Barium	257	0.025700%	Neodymium	0.837	0.000084%
Beryllium	1.06	0.000106%	Nickel	4.18	0.000418%
Bismuth	0.095	0.000010%	Niobium	0.968	0.000097%
Boron	21.6	0.002160%	Phosphorous	284	0.028400%
Bromine	5.22	0.000522%	Potassium	13,900	1.390000%
Cadmium	0.113	0.000011%	Praseodymium	4.6	0.000460%
Calcium	17,400	1.740000%	Ruthenium	1.95	0.000195%
Carbon	33,500	3.350000%	Samarium	6.11	0.000611%
Cerium	2.48	0.000248%	Scandium	3.75	0.000375%
Cesium	0.306	0.000031%	Selenium	0.28	0.000028%
Chloride	69,800	6.980000%	Silicon	77,500	0.000264%
Chromium	3.84	0.000384%	Silver	2.64	2.810000%
Cobalt	0.92	0.000092%	Sodium	28,100	0.035100%
Copper	27	0.002700%	Strontium	351	0.058800%
Dysprosium	1.91	0.000191%	Sulfur	588	0.000019%
Erbium	1.33	0.000133%	Thallium	0.19	0.000092%
Fluoride	18.6	0.001860%	Thorium	0.92	0.000075%
Gadolinium	14.5	0.001450%	Thulium	0.75	0.000114%
Gallium	0.96	0.000096%	Tin	1.14	0.083100%
Germanium	0.79	0.000079%	Titanium	831	0.083100%
Indium	0.28	0.000028%	Tungsten	0.829	0.000083%
Iodine	31.8	0.003180%	Vanadium	1,350	0.135000%
Iron	10,800	1.080000%	Ytterbium	1.83	0.000183%
Lanthanum	10.8	0.001080%	Yttrium	14.7	0.001470%
Lead	1.42	0.000142%	Zinc	91	0.009100%
Lithium	16.7	0.001670%	Zirconium	31.5	0.003150%
Lutetium	0.093	0.000009%	Moisture (H ₂ O)	Average Result	0.920000%
Magnesium	20,300	2.030000%			

PPM: Parts Per Million

Source: Advanced Laboratories, Inc. 40 West Louise Ave, Salt Lake City, UT 84115. Because Redmond Clay is a natural occurring product that has not been refined, actual elemental results of any specific lot number will vary slightly.

Procedure: The Redmond Clay sample was diluted as necessary in glass Class A volumetric flasks. The elements Chloride, Fluoride, and Bromine were analyzed via Ion Chromatography (I.C.). Cold Vapor Atomic Absorption (CVAA) was used for analysis of Mercury. Graphite Furnace Atomic Absorption (GFAA) was the method used to determine Arsenic, Selenium, Lead, and Antimony. Semi-quantitative analysis for all other elements were carried out using inductively Coupled Plasma – Optical Emission Spectrometry (ICP-OES).

