

ACZ Laboratories, Inc.  
 30400 Downhill Drive  
 Steamboat Springs, CO 80487  
 (800) 334-5493

Lab Sample ID: L19757-01  
 Client Sample ID: T7/98(1-2)  
 Client Project ID:  
 ACZ Report ID: RG75484

Molycorp, Inc.  
 P.O. Box 469 Hwy. 38  
 Questa, NM 87556  
 Geyza Lorinczi

Date Sampled: 7/31/98 00:00  
 Date Received: 8/6/98  
 Date Reported: 8/24/98

Sample Matrix: Soil

### Metals Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Aluminum, total (3051)	M6010B ICP	9740		mg/Kg	20	3	8/18/98	gg
Arsenic, total (3051)	M6010B ICP	7	B	mg/Kg	20	5	8/18/98	gg
Barium, total (3051)	M6010B ICP	104		mg/Kg	1	0.3	8/18/98	gg
Cadmium, total (3051)	M6010B ICP	3.5		mg/Kg	2	0.3	8/20/98	kr
Chromium, total (3051)	M6010B ICP	39		mg/Kg	6	1	8/18/98	gg
Copper, total (3051)	M6010B ICP	165		mg/Kg	6	1	8/20/98	kr
Iron, total (3051)	M6010B ICP	17000		mg/Kg	6	1	8/20/98	gg
Lead, total (3051)	M6010B ICP	62		mg/Kg	20	5	8/18/98	gg
Manganese, total (3051)	M6010B ICP	481		mg/Kg	1	0.6	8/18/98	gg
Mercury, total	M7471 CVAA		U	mg/Kg	0.2	0.04	8/18/98	bg
Molybdenum, total (3051)	M6010B ICP	257		mg/Kg	6	1	8/18/98	gg
Nickel, total (3051)	M6010B ICP	33		mg/Kg	6	1	8/18/98	gg
Selenium, total (3051)	M7742 Modified, AA-Hydride	0.8		mg/Kg	0.6	0.1	8/24/98	bg
Silver, total (3051)	M6010B ICP	2.4	B	mg/Kg	3	0.6	8/18/98	gg
Zinc, total (3051)	M6010B ICP	110		mg/Kg	6	1	8/18/98	gg

### Soil Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Acid Generation Potential (calc)	M600/2-78-054 1.3	30		t CaCO3/Kt	5	1	8/18/98	cc
Acid Neutralization Potential (calc)	M600/2-78-054 1.3	39		t CaCO3/Kt	5	1	8/18/98	cc
Acid-Base Potential (calc)	M600/2-78-054 1.3	9		t CaCO3/Kt	5	1	8/18/98	cc
Conductivity @25C	M120.1 - Meter, w/ Saturated Paste Prep	2.290		mmhos/cm	0.01	0.001	8/18/98	vv
Neutralization Potential as CaCO3	M600/2-78-054 3.2.3 - Modified (No Heat)	3.9		%	0.5	0.1	8/17/98	cc
pH, Saturated Paste	USDA No. 60 (21A)	8.3		units	0.1	0.1	8/18/98	vv
Solids, Percent	CLPSOW390. PART F, D-98	44.4		%	0.5	0.1	8/14/98	sw
Sulfur Forms	M600/2-78-054 3.2.4							
Sulfur Sulfate (HCl extractable)		0.21		%	0.1	0.01	8/18/98	cc
Sulfur Sulfide (Total - Sulfate)		0.76		%	0.1	0.01	8/18/98	cc
Sulfur Total		0.97		%	0.1	0.01	8/18/98	cc

### Soil Preparation

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972						8/13/98	vv
Digestion - Microwave	M3051, HNO3						8/17/98	cjv
Saturated Paste Extraction	USDA No. 60 (2)						8/18/98	vv
Sieve-250 um (60 mesh)	ASA No.9 15-4.2.2						8/17/98	cc

### Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected at the indicated MDL  
 B = Analyte concentration detected at a value between MDL and PQL  
 PQL = Practical Quantitation Limit



Vice President of Operations: Ralph Poulsen

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**Note: Duplicate precision for conductivity exceeds ACZ's QC limit of 20% RPD.**

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