



### LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** MT Sulphur and Chemical  
**Project:** COA Q2 - Full Test  
**Lab ID:** B23030297-001  
**Client Sample ID:** MSCC Disintegrating Sulfur Granules (90%)

**Revised Date:** 03/29/23  
**Report Date:** 03/17/23  
**Collection Date:** 03/03/23 15:45  
**Date Received:** 03/03/23  
**Matrix:** Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL CHARACTERISTICS</b>							
Moisture (As Received)	ND	wt%		0.2		D2974	03/09/23 14:34 / srm
Ash	8.73	wt%		0.01		D2974	03/07/23 13:03 / jlw
<b>WATER EXTRACTABLE CONSTITUENTS</b>							
Chloride, 1:2	4	mg/kg		1		E300.0	03/07/23 20:59 / caa
<b>CHEMICAL CHARACTERISTICS</b>							
Carbon, Total	0.06	wt%		0.01		Leco	03/14/23 16:30 / srm
Acidity, 1:2	ND	mg/kg		10		E305.1	03/09/23 17:03 / nrb
Nitrogen, Kjeldahl, Total as N	ND	mg/kg		100		E351.2	03/09/23 15:59 / jaw
<b>SIEVE ANALYSIS</b>							
0.5 in (12.5 mm), Retained	< 0.1	wt%-dry		0.1		SSSA 15-2	03/28/23 13:01 / srm
No. 4 (4.75 mm), Retained	< 0.1	wt%-dry		0.1		SSSA 15-2	03/28/23 13:01 / srm
No. 20 (850 um), Retained	99.4	wt%-dry		0.1		SSSA 15-2	03/28/23 13:01 / srm
Pan	0.6	wt%-dry		0.1		SSSA 15-2	03/28/23 13:01 / srm
<b>INORGANICS</b>							
Sulfur, by loss on ignition	91.5	wt%		0.100		Calculation	03/07/23 13:03 / jlw
<b>METALS, TOTAL HF DIGESTION</b>							
Silicon	ND	wt%		1		SW6010B	03/10/23 16:29 / jpv
<b>METALS, TOTAL - EPA SW846</b>							
Aluminum	547	mg/kg	D	5		SW6010B	03/15/23 06:09 / jpv
Antimony	ND	mg/kg		0.02		SW6020	03/09/23 05:45 / jks
Arsenic	ND	mg/kg		0.2		SW6020	03/09/23 05:45 / jks
Barium	8.42	mg/kg		0.05		SW6020	03/14/23 07:42 / aem
Beryllium	ND	mg/kg	D	0.09		SW6010B	03/15/23 06:09 / jpv
Boron	ND	mg/kg	D	3		SW6010B	03/15/23 06:09 / jpv
Cadmium	ND	mg/kg		0.05		SW6020	03/09/23 05:45 / jks
Calcium	464	mg/kg	D	10		SW6020	03/09/23 05:45 / jks
Chromium	ND	mg/kg	D	0.5		SW6020	03/09/23 05:45 / jks
Cobalt	0.12	mg/kg		0.05		SW6020	03/09/23 05:45 / jks
Copper	ND	mg/kg		0.5		SW6020	03/16/23 16:25 / aem
Iron	698	mg/kg	D	4		SW6010B	03/15/23 06:09 / jpv
Lead	1.65	mg/kg		0.05		SW6020	03/09/23 05:45 / jks
Lithium	ND	mg/kg	D	2		SW6020	03/14/23 07:42 / aem
Magnesium	202	mg/kg	D	9		SW6020	03/09/23 05:45 / jks
Manganese	82.6	mg/kg	D	0.3		SW6010B	03/15/23 06:09 / jpv
Molybdenum	0.09	mg/kg		0.05		SW6020	03/09/23 05:45 / jks
Nickel	ND	mg/kg	D	0.5		SW6020	03/16/23 16:25 / aem
Phosphorus	23	mg/kg	D	9		SW6010B	03/15/23 06:09 / jpv
Potassium	91	mg/kg	D	9		SW6020	03/09/23 05:45 / jks
Selenium	ND	mg/kg		0.2		SW6020	03/09/23 05:45 / jks

**Report Definitions:**  
 RL - Analyte Reporting Limit  
 QCL - Quality Control Limit  
 D - Reporting Limit (RL) increased due to sample matrix

MCL - Maximum Contaminant Level  
 ND - Not detected at the Reporting Limit (RL)



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<b>METALS, TOTAL - EPA SW846</b>							
Silver	ND	mg/kg		0.05		SW6020	03/09/23 05:45 / jks
Sodium	1150	mg/kg	D	20		SW6020	03/09/23 05:45 / jks
Thallium	ND	mg/kg		0.05		SW6020	03/09/23 05:45 / jks
Tin	ND	mg/kg	D	5		SW6020	03/09/23 05:45 / jks
Titanium	7.38	mg/kg	D	0.09		SW6020	03/16/23 16:25 / aem
Vanadium	0.3	mg/kg		0.1		SW6020	03/16/23 16:25 / aem
Zinc	3	mg/kg		1		SW6010B	03/15/23 06:09 / jpv
Mercury	ND	mg/kg		0.1		SW7471B	03/07/23 12:10 / mh
Tellurium	ND	mg/kg		1		SW6020	03/08/23 11:23 / aem

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