CHARLES R PONCHAK
Consulting Geologist
15292 6050 Road
Montrose, CO 81403
(H) 970-249-2081 (W) 970-249-4434

August 19, 2016

DRMS
Attn: Travis Marshall
Grand Junction Field Office
101 South 3rd Street
Suite 301
Grand Junction, CO. 81501

RE: 6-17-16 Possible violation Letter - Ruby Trust Mine -
42 MWT Mining Company, LLC.

Dear Travis:

Enclosed you will find an ACZ Laboratory report regarding the two piles of waste rock offsite near the Ruby Trust Mine (samples 1 & 2). These two piles were sampled 7-15-16 with Ouray County representatives present. The test results show the rock to be very benign. Once you have reviewed the results please let us know if the State agrees. Once we have your okay we will make an agreement with Ouray County. I am forwarding a copy of the test results to Ouray County (Connie Hunt).

We await your answer.

Sincerely,

Charles R. Ponchak for
42 MWT Mining Company, LLC.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

August 18, 2016

Report to:
Mickey W. Tiner
42 MWT Mining Co, LLC
PO Box 1443
Ouray, CO 81427

cc: Charles R. Ponchak

Bill to:
Mickey W. Tiner
42 MWT Mining Co, LLC
PO Box 1443
Ouray, CO 81427

Project ID:
ACZ Project ID: L31882

Mickey W. Tiner:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on July 21, 2016. This project has been assigned to ACZ's project number, L31882. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L31882. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after September 17, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Max Janicek ext-128

Max Janicek has reviewed and approved this report.

ACCREDITED IN ACCORDANCE WITH nelac

ACIL

42 MWT Mining Co, LLC
Project ID:
Sample ID: #1

ACZ Sample ID: ***L31882-01***
Date Sampled: *07/15/16 10:30*
Date Received: *07/21/16*
Sample Matrix: *Soil*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)								08/05/16 15:00	krh
Total Hot Plate Digestion	M3010A ICP-MS								08/04/16 12:28	mfm
Total Hot Plate Digestion	M3010A ICP								08/05/16 2:33	gss

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum (1312)	M6010B ICP	1	0.26		*	mg/L	0.03	0.2	08/05/16 13:54	gss
Antimony (1312)	M6020 ICP-MS	1	0.0018	B	*	mg/L	0.0004	0.002	08/15/16 18:25	enb
Arsenic (1312)	M6020 ICP-MS	1	0.0009	B		mg/L	0.0002	0.001	08/15/16 18:25	enb
Barium (1312)	M6020 ICP-MS	1	0.1309			mg/L	0.0005	0.003	08/15/16 18:25	enb
Beryllium (1312)	M6020 ICP-MS	1		U	*	mg/L	0.00005	0.0003	08/15/16 18:25	enb
Boron (1312)	M6010B ICP	1		U	*	mg/L	0.01	0.05	08/05/16 13:54	gss
Cadmium (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0001	0.0005	08/15/16 18:25	enb
Calcium (1312)	M6010B ICP	1	11.2			mg/L	0.1	0.5	08/05/16 13:54	gss
Chromium (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0005	0.002	08/15/16 18:25	enb
Cobalt (1312)	M6020 ICP-MS	1		U	*	mg/L	0.00005	0.0003	08/15/16 18:25	enb
Copper (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0005	0.003	08/15/16 18:25	enb
Iron (1312)	M6010B ICP	1		U	*	mg/L	0.02	0.05	08/05/16 13:54	gss
Lead (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0001	0.0005	08/15/16 18:25	enb
Lithium (1312)	M6010B ICP	1		U	*	mg/L	0.008	0.04	08/05/16 13:54	gss
Magnesium (1312)	M6010B ICP	1	0.4	B	*	mg/L	0.2	1	08/05/16 13:54	gss
Manganese (1312)	M6020 ICP-MS	1	0.0068		*	mg/L	0.0005	0.003	08/15/16 18:25	enb
Mercury (1312)	M7470A CVAA	1		U	*	mg/L	0.0002	0.001	08/10/16 12:25	pta
Molybdenum (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0005	0.003	08/15/16 18:25	enb
Nickel (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0006	0.003	08/15/16 18:25	enb
Potassium (1312)	M6010B ICP	1	2.9		*	mg/L	0.2	1	08/05/16 13:54	gss
Selenium (1312)	M6020 ICP-MS	1	0.0015		*	mg/L	0.0001	0.0003	08/15/16 18:25	enb
Silica (1312)	M6010B ICP	1	4.3			mg/L	0.2	1	08/05/16 13:54	gss
Silver (1312)	M6020 ICP-MS	1	0.00006	B	*	mg/L	0.00005	0.0003	08/15/16 18:25	enb
Sodium (1312)	M6010B ICP	1	2.5		*	mg/L	0.2	1	08/05/16 13:54	gss
Strontium (1312)	M6010B ICP	1	0.329			mg/L	0.005	0.03	08/05/16 13:54	gss
Thallium (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0001	0.0005	08/15/16 18:25	enb
Tin (1312)	M6010B ICP	1		U	*	mg/L	0.04	0.2	08/05/16 13:54	gss
Uranium (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0001	0.0005	08/15/16 18:25	enb
Vanadium (1312)	M6020 ICP-MS	1	0.0008	B		mg/L	0.0002	0.001	08/15/16 18:25	enb
Zinc (1312)	M6020 ICP-MS	1		U	*	mg/L	0.002	0.005	08/15/16 18:25	enb

Soil Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
pH, (1312)	M9045D/M9040C									
pH		1	9.0			units	0.1	0.1	08/03/16 0:00	arc
pH measured at		1	22.6			C	0.1	0.1	08/03/16 0:00	arc

42 MWT Mining Co, LLC
Project ID:
Sample ID: #1

ACZ Sample ID: ***L31882-01***
Date Sampled: *07/15/16 10:30*
Date Received: *07/21/16*
Sample Matrix: *Soil*

Soil Preparation

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Synthetic Precip. Leaching Procedure	M1312								08/03/16 2:20	arc
Synthetic Precip. Leaching Procedure	M1312, DI Water								08/04/16 3:46	arc

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity (1312 DI)	SM2320B - Titration									
Bicarbonate as CaCO3		1	21.9		*	mg/L	2	20	08/04/16 0:00	abd
Carbonate as CaCO3		1	7.8	B	*	mg/L	2	20	08/04/16 0:00	abd
Hydroxide as CaCO3		1		U	*	mg/L	2	20	08/04/16 0:00	abd
Total Alkalinity		1	29.7		*	mg/L	2	20	08/04/16 0:00	abd
Bromide (1312-DI)	M300.0 - Ion Chromatography	1		U	*	mg/L	0.05	0.25	08/10/16 12:58	bsu
Carbon, total organic (TOC) (1312-DI)	SM5310B	1		U	*	mg/L	1	5	08/04/16 16:37	bsu
Chloride (1312-DI)	M300.0 - Ion Chromatography	1		U	*	mg/L	0.5	2.5	08/05/16 18:52	bsu
Conductivity @25C (1312-DI)	SM2510B	1	114		*	umhos/cm	1	10	08/04/16 14:22	abd
Fluoride (1312 DI)	SM4500F-C	1	0.11	B	*	mg/L	0.05	0.3	08/04/16 14:33	abd
Hardness as CaCO3 (1312)	SM2340B - Calculation		30			mg/L	0.2	5	08/18/16 0:00	calc
Nitrate (1312 DI)	Calculation NO3NO2 minus NO2		0.03	B		mg/L	0.02	0.1	08/18/16 0:00	calc
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	1	0.03	B	*	mg/L	0.02	0.1	08/04/16 18:42	pjb
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	1		U	*	mg/L	0.01	0.05	08/04/16 18:42	pjb
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	1	0.43		*	mg/L	0.05	0.2	08/06/16 13:44	krh
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid	1	0.02	B	*	mg/L	0.02	0.05	08/04/16 22:22	pjb
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	1		U	*	mg/L	0.02	0.05	08/05/16 23:47	pjb
Residue, Filterable (TDS) @180C (1312)	SM2540C	1	70		*	mg/L	10	20	08/04/16 12:06	abd
Residue, Non-Filter (TSS) @180C (1312)	SM2540D	1		U	*	mg/L	5	20	08/04/16 12:16	abd
Sulfate (1312-DI)	M300.0 - Ion Chromatography	1	11.7		*	mg/L	0.5	2.5	08/05/16 18:52	bsu

42 MWT Mining Co, LLC
Project ID:
Sample ID: #2

ACZ Sample ID: ***L31882-02***
Date Sampled: *07/15/16 10:30*
Date Received: *07/21/16*
Sample Matrix: *Soil*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)								08/05/16 15:45	krh
Total Hot Plate Digestion	M3010A ICP-MS								08/04/16 13:02	mfm
Total Hot Plate Digestion	M3010A ICP								08/05/16 9:30	gss

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum (1312)	M6010B ICP	1	0.39		*	mg/L	0.03	0.2	08/05/16 14:04	gss
Antimony (1312)	M6020 ICP-MS	1	0.0020		*	mg/L	0.0004	0.002	08/15/16 18:32	enb
Arsenic (1312)	M6020 ICP-MS	1	0.0012			mg/L	0.0002	0.001	08/15/16 18:32	enb
Barium (1312)	M6020 ICP-MS	1	0.1123			mg/L	0.0005	0.003	08/15/16 18:32	enb
Beryllium (1312)	M6020 ICP-MS	1		U	*	mg/L	0.00005	0.0003	08/15/16 18:32	enb
Boron (1312)	M6010B ICP	1		U	*	mg/L	0.01	0.05	08/05/16 14:04	gss
Cadmium (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0001	0.0005	08/15/16 18:32	enb
Calcium (1312)	M6010B ICP	1	8.5			mg/L	0.1	0.5	08/05/16 14:04	gss
Chromium (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0005	0.002	08/15/16 18:32	enb
Cobalt (1312)	M6020 ICP-MS	1		U	*	mg/L	0.00005	0.0003	08/15/16 18:32	enb
Copper (1312)	M6020 ICP-MS	1	0.0012	B	*	mg/L	0.0005	0.003	08/15/16 18:32	enb
Iron (1312)	M6010B ICP	1	0.03	B	*	mg/L	0.02	0.05	08/05/16 14:04	gss
Lead (1312)	M6020 ICP-MS	1	0.0001	B	*	mg/L	0.0001	0.0005	08/15/16 18:32	enb
Lithium (1312)	M6010B ICP	1		U	*	mg/L	0.008	0.04	08/05/16 14:04	gss
Magnesium (1312)	M6010B ICP	1	0.3	B	*	mg/L	0.2	1	08/05/16 14:04	gss
Manganese (1312)	M6020 ICP-MS	1	0.0035		*	mg/L	0.0005	0.003	08/15/16 18:32	enb
Mercury (1312)	M7470A CVAA	1		U	*	mg/L	0.0002	0.001	08/10/16 12:31	pta
Molybdenum (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0005	0.003	08/15/16 18:32	enb
Nickel (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0006	0.003	08/15/16 18:32	enb
Potassium (1312)	M6010B ICP	1	2.6		*	mg/L	0.2	1	08/05/16 14:04	gss
Selenium (1312)	M6020 ICP-MS	1	0.0010		*	mg/L	0.0001	0.0003	08/15/16 18:32	enb
Silica (1312)	M6010B ICP	1	5.5			mg/L	0.2	1	08/05/16 14:04	gss
Silver (1312)	M6020 ICP-MS	1		U	*	mg/L	0.00005	0.0003	08/15/16 18:32	enb
Sodium (1312)	M6010B ICP	1	3		*	mg/L	0.2	1	08/05/16 14:04	gss
Strontium (1312)	M6010B ICP	1	0.223			mg/L	0.005	0.03	08/05/16 14:04	gss
Thallium (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0001	0.0005	08/15/16 18:32	enb
Tin (1312)	M6010B ICP	1		U	*	mg/L	0.04	0.2	08/05/16 14:04	gss
Uranium (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0001	0.0005	08/15/16 18:32	enb
Vanadium (1312)	M6020 ICP-MS	1	0.0011			mg/L	0.0002	0.001	08/15/16 18:32	enb
Zinc (1312)	M6020 ICP-MS	1		U	*	mg/L	0.002	0.005	08/15/16 18:32	enb

Soil Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
pH, (1312)	M9045D/M9040C									
pH		1	9.1			units	0.1	0.1	08/03/16 0:00	arc
pH measured at		1	22.7			C	0.1	0.1	08/03/16 0:00	arc

42 MWT Mining Co, LLC
Project ID:
Sample ID: #2

ACZ Sample ID: ***L31882-02***
Date Sampled: *07/15/16 10:30*
Date Received: *07/21/16*
Sample Matrix: *Soil*

Soil Preparation

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Synthetic Precip. Leaching Procedure	M1312								08/03/16 5:52	arc
Synthetic Precip. Leaching Procedure	M1312, DI Water								08/04/16 5:51	arc

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity (1312 DI)	SM2320B - Titration									
Bicarbonate as CaCO3		1	17.5	B	*	mg/L	2	20	08/04/16 0:00	abd
Carbonate as CaCO3		1	10.5	B	*	mg/L	2	20	08/04/16 0:00	abd
Hydroxide as CaCO3		1		U	*	mg/L	2	20	08/04/16 0:00	abd
Total Alkalinity		1	28.0		*	mg/L	2	20	08/04/16 0:00	abd
Bromide (1312-DI)	M300.0 - Ion Chromatography	1		U	*	mg/L	0.05	0.25	08/10/16 13:16	bsu
Carbon, total organic (TOC) (1312-DI)	SM5310B	1		U	*	mg/L	1	5	08/04/16 16:37	bsu
Chloride (1312-DI)	M300.0 - Ion Chromatography	1		U	*	mg/L	0.5	2.5	08/05/16 19:10	bsu
Conductivity @25C (1312-DI)	SM2510B	1	98.1		*	umhos/cm	1	10	08/04/16 14:32	abd
Fluoride (1312 DI)	SM4500F-C	1	0.18	B	*	mg/L	0.05	0.3	08/04/16 14:41	abd
Hardness as CaCO3 (1312)	SM2340B - Calculation		23			mg/L	0.2	5	08/18/16 0:00	calc
Nitrate (1312 DI)	Calculation NO3NO2 minus NO2		0.06	B		mg/L	0.02	0.1	08/18/16 0:00	calc
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	1	0.06	B	*	mg/L	0.02	0.1	08/04/16 18:44	pjb
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	1		U	*	mg/L	0.01	0.05	08/04/16 18:44	pjb
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	1	0.64		*	mg/L	0.05	0.2	08/06/16 13:46	krh
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid	1		U	*	mg/L	0.02	0.05	08/04/16 22:24	pjb
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	1		U	*	mg/L	0.02	0.05	08/05/16 23:49	pjb
Residue, Filterable (TDS) @180C (1312)	SM2540C	1	56		*	mg/L	10	20	08/04/16 12:08	abd
Residue, Non-Filter (TSS) @180C (1312)	SM2540D	1		U	*	mg/L	5	20	08/04/16 12:18	abd
Sulfate (1312-DI)	M300.0 - Ion Chromatography	1	8.35		*	mg/L	0.5	2.5	08/05/16 19:10	bsu

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1)	EPA 600/4-83-020, Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100, Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111, Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846, Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5)	If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

42 MWT Mining Co, LLC

ACZ Project ID: ***L31882***

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407633													
WG407633LCSW2	LCSW	08/04/16 13:56	WC160728-1	820.0001		806	mg/L	98	90	110			
WG407586PBW	PBW	08/04/16 14:02				U	mg/L		-20	20			
L31882-02DUP	DUP	08/04/16 14:42			28	28	mg/L				0	20	
WG407633LCSW4	LCSW	08/04/16 14:56	WC160728-1	820.0001		806	mg/L	98	90	110			

Aluminum (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13:19	II160714-4	2		2.014	mg/L	101	90	110			
WG407709ICB	ICB	08/05/16 13:22				U	mg/L		-0.09	0.09			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.09	0.09			
WG407509LFB1	LFB	08/05/16 13:38	II160802-3	1.0013		1.087	mg/L	109	85	115			
L31877-01DUP	DUP	08/05/16 13:51			.73	.57	mg/L				25	20	RD
L31882-01MS	MS	08/05/16 13:57	II160802-3	1.0013	.26	1.314	mg/L	105	75	125			
L31882-01MSD	MSD	08/05/16 14:01	II160802-3	1.0013	.26	1.329	mg/L	107	75	125	1	20	

Antimony (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.02		.01911	mg/L	96	90	110			
WG408178ICB	ICB	08/15/16 17:57				.00052	mg/L		-0.0012	0.0012			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0012	0.0012			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.009980001		.0106	mg/L	106	80	120			
L31877-01DUP	DUP	08/15/16 18:22			.0009	.00094	mg/L				4	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.009980001	.002	.01258	mg/L	106	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.009980001	.002	.01279	mg/L	108	75	125	2	20	

Arsenic (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.05106	mg/L	102	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0006	0.0006			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0006	0.0006			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.0501		.04855	mg/L	97	80	120			
L31877-01DUP	DUP	08/15/16 18:22			.0032	.00305	mg/L				5	20	
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.0501	.0012	.04859	mg/L	95	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.0501	.0012	.04912	mg/L	96	75	125	1	20	

Barium (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.05128	mg/L	103	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0015	0.0015			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0015	0.0015			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.05		.04918	mg/L	98	80	120			
L31877-01DUP	DUP	08/15/16 18:22			.0078	.00709	mg/L				10	20	
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.05	.1123	.1581	mg/L	92	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.05	.1123	.1629	mg/L	101	75	125	3	20	

Beryllium (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.04878	mg/L	98	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.00015	0.00015			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.00015	0.00015			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.0501		.04664	mg/L	93	80	120			
L31877-01DUP	DUP	08/15/16 18:22			U	U	mg/L				0	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.0501	U	.04659	mg/L	93	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.0501	U	.04773	mg/L	95	75	125	2	20	

Boron (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13:19	II160714-4	2		2.012	mg/L	101	90	110			
WG407709ICB	ICB	08/05/16 13:22				U	mg/L		-0.03	0.03			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.03	0.03			
WG407509LFB1	LFB	08/05/16 13:38	II160802-3	.5005		.524	mg/L	105	85	115			
L31877-01DUP	DUP	08/05/16 13:51			.01	U	mg/L				200	20	RA
L31882-01MS	MS	08/05/16 13:57	II160802-3	.5005	U	.486	mg/L	97	75	125			
L31882-01MSD	MSD	08/05/16 14:01	II160802-3	.5005	U	.494	mg/L	99	75	125	2	20	

Bromide (1312-DI) M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG404021													
WG404021ICV	ICV	06/01/16 15:41	WI160601-1	4.004		3.91	mg/L	98	90	110			
WG404021ICB	ICB	06/01/16 15:59				U	mg/L		-0.05	0.05			
WG407754													
WG407754LFB	LFB	08/10/16 11:46	WI160802-5	1.5		1.47	mg/L	98	90	110			
WG407586PBS	PBS	08/10/16 12:04				U	mg/L		-0.05	0.05			
L31877-01AS	AS	08/10/16 12:40	WI160802-5	1.5	U	1.47	mg/L	98	90	110			
L31882-02DUP	DUP	08/10/16 13:33			U	U	mg/L				0	20	RA

Cadmium (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.04999	mg/L	100	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0003	0.0003			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0003	0.0003			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.05005		.04793	mg/L	96	80	120			
L31877-01DUP	DUP	08/15/16 18:22			U	U	mg/L				0	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.05005	U	.04677	mg/L	93	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.05005	U	.04795	mg/L	96	75	125	2	20	

42 MWT Mining Co, LLC

ACZ Project ID: ***L31882***

Calcium (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13:19	II160714-4	100		100	mg/L	100	90	110			
WG407709ICB	ICB	08/05/16 13:22				U	mg/L		-0.3	0.3			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.3	0.3			
WG407509LFB1	LFB	08/05/16 13:38	II160802-3	68.00716		70.98	mg/L	104	85	115			
L31877-01DUP	DUP	08/05/16 13:51			9.6	10.57	mg/L				10	20	
L31882-01MS	MS	08/05/16 13:57	II160802-3	68.00716	11.2	79.05	mg/L	100	75	125			
L31882-01MSD	MSD	08/05/16 14:01	II160802-3	68.00716	11.2	79.03	mg/L	100	75	125	0	20	

Carbon, total organic (TOC) (1312-DI) SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG404350													
WG404350ICV	ICV	06/09/16 16:34	WI160420-9	100		100	mg/L	100	90	110			
WG404350ICB	ICB	06/09/16 16:34				U	mg/L		-3	3			
WG407675													
WG407675LFB	LFB	08/04/16 16:37	WI160802-1	50		57.3	mg/L	115	90	110			LA
WG407586PBS	PBS	08/04/16 16:37				U	mg/L		-3	3			
L31877-01AS	AS	08/04/16 16:37	WI160802-1	50	U	50.5	mg/L	101	90	110			
L31882-02DUP	DUP	08/04/16 16:37			U	U	mg/L				0	20	RA

Chloride (1312-DI) M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG404021													
WG404021ICV	ICV	06/01/16 15:41	WI160601-1	20.02		19.8	mg/L	99	90	110			
WG404021ICB	ICB	06/01/16 15:59				U	mg/L		-0.5	0.5			
WG407754													
WG407754LFB	LFB	08/05/16 17:40	WI160802-5	30		29.3	mg/L	98	90	110			
WG407586PBS	PBS	08/05/16 17:58				U	mg/L		-0.5	0.5			
L31877-01AS	AS	08/05/16 18:34	WI160802-5	30	U	29.6	mg/L	99	90	110			
L31882-02DUP	DUP	08/05/16 19:28			U	U	mg/L				0	20	RA

Chromium (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.049	mg/L	98	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0015	0.0015			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0015	0.0015			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.05005		.04809	mg/L	96	80	120			
L31877-01DUP	DUP	08/15/16 18:22			U	U	mg/L				0	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.05005	U	.04621	mg/L	92	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.05005	U	.04723	mg/L	94	75	125	2	20	

42 MWT Mining Co, LLC

ACZ Project ID: ***L31882***

Cobalt (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.05373	mg/L	107	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.00015	0.00015			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.00015	0.00015			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.05005		.0518	mg/L	103	80	120			
L31877-01DUP	DUP	08/15/16 18:22			.00009	.000056	mg/L				47	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.05005	U	.04945	mg/L	99	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.05005	U	.05072	mg/L	101	75	125	3	20	

Conductivity @25C (1312-DI) SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407633													
WG407633LCSW1	LCSW	08/04/16 13:43	PCN49502	1409		1470	umhos/cm	104	90	110			
WG407586PBW	PBW	08/04/16 14:02				1.7	umhos/cm		-10	10			
L31882-02DUP	DUP	08/04/16 14:42			98.1	100	umhos/cm				2	20	
WG407633LCSW3	LCSW	08/04/16 14:43	PCN49502	1409		1460	umhos/cm	104	90	110			

Copper (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.05115	mg/L	102	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0015	0.0015			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0015	0.0015			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.0501		.04955	mg/L	99	80	120			
L31877-01DUP	DUP	08/15/16 18:22			U	U	mg/L				0	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.0501	.0012	.04883	mg/L	95	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.0501	.0012	.04972	mg/L	97	75	125	2	20	

Fluoride (1312 DI) SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407648													
WG407648ICV	ICV	08/04/16 14:06	WC160728-2	2		1.914	mg/L	96	95	105			
WG407648ICB	ICB	08/04/16 14:12				.059	mg/L		-0.15	0.15			
WG407648LFB	LFB	08/04/16 14:20	WC160419-8	4.995		4.955	mg/L	99	90	110			
WG407586PBS	PBS	08/04/16 14:24				.125	mg/L		-0.15	0.15			
L31882-01AS	AS	08/04/16 14:38	WC160419-8	4.995	.11	4.932	mg/L	97	90	110			
L31882-02DUP	DUP	08/04/16 14:45			.18	.118	mg/L				42	20	RA

Iron (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13:19	II160714-4	2		1.966	mg/L	98	90	110			
WG407709ICB	ICB	08/05/16 13:22				U	mg/L		-0.06	0.06			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.06	0.06			
WG407509LFB1	LFB	08/05/16 13:38	II160802-3	1.0017		1.033	mg/L	103	85	115			
L31877-01DUP	DUP	08/05/16 13:51			.09	.032	mg/L				95	20	RA
L31882-01MS	MS	08/05/16 13:57	II160802-3	1.0017	U	.997	mg/L	100	75	125			
L31882-01MSD	MSD	08/05/16 14:01	II160802-3	1.0017	U	1.001	mg/L	100	75	125	0	20	

Lead (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.05275	mg/L	106	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0003	0.0003			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0003	0.0003			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.05005		.05	mg/L	100	80	120			
L31877-01DUP	DUP	08/15/16 18:22			.0011	.00057	mg/L				63	20	RD
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.05005	.0001	.04924	mg/L	98	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.05005	.0001	.04951	mg/L	99	75	125	1	20	

Lithium (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13:19	II160714-4	2		1.973	mg/L	99	90	110			
WG407709ICB	ICB	08/05/16 13:22				U	mg/L		-0.024	0.024			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.024	0.024			
WG407509LFB1	LFB	08/05/16 13:38	II160802-3	1.002		1.019	mg/L	102	85	115			
L31877-01DUP	DUP	08/05/16 13:51			U	U	mg/L				0	20	RA
L31882-01MS	MS	08/05/16 13:57	II160802-3	1.002	U	.9689	mg/L	97	75	125			
L31882-01MSD	MSD	08/05/16 14:01	II160802-3	1.002	U	.977	mg/L	98	75	125	1	20	

Magnesium (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13:19	II160714-4	100		99.7	mg/L	100	90	110			
WG407709ICB	ICB	08/05/16 13:22				U	mg/L		-0.6	0.6			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.6	0.6			
WG407509LFB1	LFB	08/05/16 13:38	II160802-3	50.00491		48.85	mg/L	98	85	115			
L31877-01DUP	DUP	08/05/16 13:51			.3	.21	mg/L				35	20	RA
L31882-01MS	MS	08/05/16 13:57	II160802-3	50.00491	.4	46.96	mg/L	93	75	125			
L31882-01MSD	MSD	08/05/16 14:01	II160802-3	50.00491	.4	46.84	mg/L	93	75	125	0	20	

Manganese (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.05131	mg/L	103	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0015	0.0015			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0015	0.0015			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.05005		.0502	mg/L	100	80	120			
L31877-01DUP	DUP	08/15/16 18:22			.0038	.00249	mg/L				42	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.05005	.0035	.05169	mg/L	96	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.05005	.0035	.05266	mg/L	98	75	125	2	20	

42 MWT Mining Co, LLC ACZ Project ID: ***L31882***

Mercury (1312) M7470A CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407747													
WG407747ICV	ICV	08/10/16 12:11	HG160805-4	.005		.00514	mg/L	103	90	110			
WG407747ICB	ICB	08/10/16 12:13				U	mg/L		-0.0006	0.0006			
WG407509PBS	PBS	08/10/16 12:15				U	mg/Kg		-0.0006	0.0006			
WG407509LFB1	LFB	08/10/16 12:18	HG160805-2	.002002		.00185	mg/L	92	85	115			
L31877-01DUP	DUP	08/10/16 12:23			U	U	mg/L				0	20	RA
L31882-01MS	MS	08/10/16 12:27	HG160805-2	.002002	U	.00174	mg/L	87	85	115			
L31882-01MSD	MSD	08/10/16 12:29	HG160805-2	.002002	U	.00182	mg/L	91	85	115	4	20	

Molybdenum (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.01998		.01969	mg/L	99	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0015	0.0015			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0015	0.0015			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.05005		.05085	mg/L	102	80	120			
L31877-01DUP	DUP	08/15/16 18:22			.0007	.00054	mg/L				26	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.05005	U	.04987	mg/L	100	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.05005	U	.05094	mg/L	102	75	125	2	20	

Nickel (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.04999	mg/L	100	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0018	0.0018			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0018	0.0018			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.05005		.04743	mg/L	95	80	120			
L31877-01DUP	DUP	08/15/16 18:22			U	U	mg/L				0	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.05005	U	.0458	mg/L	92	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.05005	U	.04724	mg/L	94	75	125	3	20	

Nitrate/Nitrite as N (1312-DI) M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407687													
WG407687ICV	ICV	08/04/16 18:32	WI160607-11	2.416		2.525	mg/L	105	90	110			
WG407687ICB	ICB	08/04/16 18:33				U	mg/L		-0.02	0.02			
WG407687LFB	LFB	08/04/16 18:37	WI160616-3	2		1.965	mg/L	98	90	110			
WG407586PBS	PBS	08/04/16 18:39				U	mg/L		-0.02	0.02			
L31877-01AS	AS	08/04/16 18:41	WI160616-3	2	.06	2.073	mg/L	101	90	110			
L31882-02DUP	DUP	08/04/16 18:45			.06	.075	mg/L				22	20	RA

42 MWT Mining Co, LLC

ACZ Project ID: ***L31882***

Nitrite as N (1312-DI) M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407687													
WG407687ICV	ICV	08/04/16 18:32	WI160607-11	.609		.64	mg/L	105	90	110			
WG407687ICB	ICB	08/04/16 18:33				U	mg/L		-0.01	0.01			
WG407687LFB	LFB	08/04/16 18:37	WI160616-3	1		.991	mg/L	99	90	110			
WG407586PBS	PBS	08/04/16 18:39				U	mg/L		-0.01	0.01			
L31877-01AS	AS	08/04/16 18:41	WI160616-3	1	U	1.016	mg/L	102	90	110			
L31882-02DUP	DUP	08/04/16 18:45			U	U	mg/L				0	20	RA

Nitrogen, ammonia (1312-DI) M350.1 Auto Salicylate w/gas diffusion

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407769													
WG407769ICV	ICV	08/06/16 11:28	WI160705-8	11.988		12.311	mg/L	103	90	110			
WG407769ICB	ICB	08/06/16 11:29				U	mg/L		-0.05	0.05			
WG407773													
WG407773LFB	LFB	08/06/16 13:38	WI160121-1	10		10.263	mg/L	103	90	110			
WG407586PBS	PBS	08/06/16 13:40				U	mg/L		-0.05	0.05			
L31877-01AS	AS	08/06/16 13:43	WI160121-1	10	.64	11.192	mg/L	106	90	110			
L31882-02DUP	DUP	08/06/16 13:47			.64	.71	mg/L				10	20	

Ph M9045D/M9040C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407790													
WG407790ICV	ICV	08/02/16 21:15	PCN48828	4		4	units	100	3.9	4.1			
L31877-01DUP	DUP	08/03/16 3:55			9.5	9.5	units				0	20	

Phosphorus, ortho dissolved (1312-DI) M365.1 - Automated Ascorbic Acid

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407688													
WG407688ICV	ICV	08/04/16 21:37	WI160503-9	.6523		.63	mg/L	97	90	110			
WG407688ICB	ICB	08/04/16 21:38				U	mg/L		-0.02	0.02			
WG407689													
WG407689LFB	LFB	08/04/16 22:18	WI160721-4	.5		.462	mg/L	92	90	110			
WG407586PBS	PBS	08/04/16 22:19				U	mg/L		-0.02	0.02			
L31877-01AS	AS	08/04/16 22:21	WI160721-4	.5	U	.488	mg/L	98	90	110			
L31882-02DUP	DUP	08/04/16 22:25			U	U	mg/L				0	20	RA

Phosphorus, Total (1312-DI) M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407760													
WG407760ICV	ICV	08/05/16 22:58	WI160629-4	.65228		.664	mg/L	102	90	110			
WG407760ICB	ICB	08/05/16 23:00				U	mg/L		-0.02	0.02			
WG407761													
WG407726PBS	PBS	08/05/16 23:43				U	mg/L		-0.02	0.02			
WG407726LFB	LFB	08/05/16 23:44	WI160805-2	.5		.492	mg/L	98	90	110			
L31877-01MS	MS	08/05/16 23:46	WI160805-2	.5	U	.493	mg/L	99	90	110			
L31882-02DUP	DUP	08/05/16 23:50			U	U	mg/L				0	20	RA

42 MWT Mining Co, LLC

ACZ Project ID: ***L31882***

Potassium (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13:19	II160714-4	20		19.92	mg/L	100	90	110			
WG407709ICB	ICB	08/05/16 13:22				U	mg/L		-0.6	0.6			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.6	0.6			
WG407509LFB1	LFB	08/05/16 13:38	II160802-3	99.99679		101.8	mg/L	102	85	115			
L31877-01DUP	DUP	08/05/16 13:51			1.5	1.39	mg/L				8	20	RA
L31882-01MS	MS	08/05/16 13:57	II160802-3	99.99679	2.9	99.72	mg/L	97	75	125			
L31882-01MSD	MSD	08/05/16 14:01	II160802-3	99.99679	2.9	100.2	mg/L	97	75	125	0	20	

Residue, Filterable (TDS) @180C (1312) SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407635													
WG407635PBW	PBW	08/04/16 12:00				U	mg/L		-20	20			
WG407635LCSW	LCSW	08/04/16 12:01	PCN51167	260		258	mg/L	99	80	120			
WG407586PBS	PBS	08/04/16 12:03				U	mg/L		-20	20			
L31882-02DUP	DUP	08/04/16 12:10			56	56	mg/L				0	10	RA

Residue, Non-Filter (TSS) @180C (1312) SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407636													
WG407636PBW	PBW	08/04/16 12:10				U	mg/L		-15	15			
WG407636LCSW	LCSW	08/04/16 12:11	PCN51167	160		147	mg/L	92	80	120			
WG407586PBS	PBS	08/04/16 12:13				6	mg/L		-15	15			
L31882-02DUP	DUP	08/04/16 12:20			U	U	mg/L				0	10	RA

Selenium (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.05033	mg/L	101	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0003	0.0003			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0003	0.0003			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.0501		.04782	mg/L	95	80	120			
L31877-01DUP	DUP	08/15/16 18:22			U	U	mg/L				0	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.0501	.001	.04804	mg/L	94	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.0501	.001	.04854	mg/L	95	75	125	1	20	

Silica (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13:19	II160714-4	42.8		41.24	mg/L	96	90	110			
WG407709ICB	ICB	08/05/16 13:22				U	mg/L		-0.6	0.6			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.6	0.6			
WG407509LFB1	LFB	08/05/16 13:38	II160802-3	21.415		22.45	mg/L	105	85	115			
L31877-01DUP	DUP	08/05/16 13:51			7.7	6.48	mg/L				17	20	
L31882-01MS	MS	08/05/16 13:57	II160802-3	21.415	4.3	24.74	mg/L	95	75	125			
L31882-01MSD	MSD	08/05/16 14:01	II160802-3	21.415	4.3	24.39	mg/L	94	75	125	1	20	

42 MWT Mining Co, LLC

ACZ Project ID: ***L31882***

Silver (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.02004		.02037	mg/L	102	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.00015	0.00015			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.00015	0.00015			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.01001		.009757	mg/L	97	80	120			
L31877-01DUP	DUP	08/15/16 18:22			U	U	mg/L				0	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.01001	U	.009384	mg/L	94	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.01001	U	.009685	mg/L	97	75	125	3	20	

Sodium (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13:19	II160714-4	100		98.97	mg/L	99	90	110			
WG407709ICB	ICB	08/05/16 13:22				U	mg/L		-0.6	0.6			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.6	0.6			
WG407509LFB1	LFB	08/05/16 13:38	II160802-3	100.0149		100.9	mg/L	101	85	115			
L31877-01DUP	DUP	08/05/16 13:51			1.8	1.61	mg/L				11	20	RA
L31882-01MS	MS	08/05/16 13:57	II160802-3	100.0149	2.5	99.27	mg/L	97	75	125			
L31882-01MSD	MSD	08/05/16 14:01	II160802-3	100.0149	2.5	99.05	mg/L	97	75	125	0	20	

Strontium (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13:19	II160714-4	2		1.966	mg/L	98	90	110			
WG407709ICB	ICB	08/05/16 13:22				U	mg/L		-0.015	0.015			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.015	0.015			
WG407509LFB1	LFB	08/05/16 13:38	II160802-3	.501		.5266	mg/L	105	85	115			
L31877-01DUP	DUP	08/05/16 13:51			.204	.2224	mg/L				9	20	
L31882-01MS	MS	08/05/16 13:57	II160802-3	.501	.329	.8341	mg/L	101	75	125			
L31882-01MSD	MSD	08/05/16 14:01	II160802-3	.501	.329	.8351	mg/L	101	75	125	0	20	

Sulfate (1312-DI) M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG404021													
WG404021ICV	ICV	06/01/16 15:41	WI160601-1	50		51.1	mg/L	102	90	110			
WG404021ICB	ICB	06/01/16 15:59				U	mg/L		-0.5	0.5			
WG407754													
WG407754LFB	LFB	08/05/16 17:40	WI160802-5	30		29.7	mg/L	99	90	110			
WG407586PBS	PBS	08/05/16 17:58				U	mg/L		-0.5	0.5			
L31877-01AS	AS	08/05/16 18:34	WI160802-5	30	1.54	31.5	mg/L	100	90	110			
L31882-02DUP	DUP	08/05/16 19:28			8.35	10.5	mg/L				23	20	RD

42 MWT Mining Co, LLC ACZ Project ID: ***L31882***

Thallium (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.05234	mg/L	105	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0003	0.0003			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0003	0.0003			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.0501		.04989	mg/L	100	80	120			
L31877-01DUP	DUP	08/15/16 18:22			U	U	mg/L				0	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.0501	U	.0489	mg/L	98	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.0501	U	.0499	mg/L	100	75	125	2	20	

Tin (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13:19	II160714-4	2		2.094	mg/L	105	90	110			
WG407709ICB	ICB	08/05/16 13:22				U	mg/L		-0.12	0.12			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.12	0.12			
WG407509LFB1	LFB	08/05/16 13:38	II160802-3	1.001		1.06	mg/L	106	85	115			
L31877-01DUP	DUP	08/05/16 13:51			U	U	mg/L				0	20	RA
L31882-01MS	MS	08/05/16 13:57	II160802-3	1.001	U	.992	mg/L	99	75	125			
L31882-01MSD	MSD	08/05/16 14:01	II160802-3	1.001	U	1.018	mg/L	102	75	125	3	20	

Uranium (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.0515	mg/L	103	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0003	0.0003			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0003	0.0003			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.05		.04865	mg/L	97	80	120			
L31877-01DUP	DUP	08/15/16 18:22			U	U	mg/L				0	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.05	U	.0489	mg/L	98	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.05	U	.04931	mg/L	99	75	125	1	20	

Vanadium (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.04819	mg/L	96	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0006	0.0006			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0006	0.0006			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.05005		.04808	mg/L	96	80	120			
L31877-01DUP	DUP	08/15/16 18:22			.0036	.00334	mg/L				7	20	
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.05005	.0011	.04794	mg/L	94	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.05005	.0011	.04929	mg/L	96	75	125	3	20	

42 MWT Mining Co, LLC

ACZ Project ID: ***L31882***

Zinc (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.0513	mg/L	103	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.006	0.006			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.006	0.006			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.050135		.0487	mg/L	97	80	120			
L31877-01DUP	DUP	08/15/16 18:22			U	U	mg/L				0	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.050135	U	.048	mg/L	96	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.050135	U	.0492	mg/L	98	75	125	2	20	

42 MWT Mining Co, LLC ACZ Project ID: ***L31882***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L31882-01	WG407709	Aluminum (1312)	M6010B ICP	RD	For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non-homogeneity of the sample.
	WG408178	Antimony (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Beryllium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709	Boron (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Cadmium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Chromium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Cobalt (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Copper (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709	Iron (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Lead (1312)	M6020 ICP-MS	RD	For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non-homogeneity of the sample.
	WG407709	Lithium (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Magnesium (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Manganese (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407747	Mercury (1312)	M7470A CVAA	Q6	Sample was received above recommended temperature.
			M7470A CVAA	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Molybdenum (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nickel (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709	Potassium (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Selenium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Silver (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709	Sodium (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Thallium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709	Tin (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

42 MWT Mining Co, LLC ACZ Project ID: ***L31882***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
	WG408178	Uranium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Zinc (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407633	Bicarbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG407754	Bromide (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407675	Carbon, total organic (TOC) (1312-DI)	SM5310B	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			SM5310B	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
			SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407633	Carbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG407754	Chloride (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407633	Conductivity @25C (1312-DI)	SM2510B	Q6	Sample was received above recommended temperature.
	WG407648	Fluoride (1312 DI)	SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407633	Hydroxide as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG407687	Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407773	Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.

42 MWT Mining Co, LLC ACZ Project ID: ***L31882***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
			M350.1 Auto Salicylate w/gas diffusion	Q6	Sample was received above recommended temperature.
	WG407689	Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M365.1 - Automated Ascorbic Acid	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407761	Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407635	Residue, Filterable (TDS) @180C (1312)	SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407636	Residue, Non-Filter (TSS) @180C (1312)	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407754	Sulfate (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	RD	For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non-homogeneity of the sample.
	WG407633	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

42 MWT Mining Co, LLC ACZ Project ID: ***L31882***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L31882-02	WG407709	Aluminum (1312)	M6010B ICP	RD	For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non-homogeneity of the sample.
	WG408178	Antimony (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Beryllium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709	Boron (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Cadmium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Chromium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Cobalt (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Copper (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709	Iron (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Lead (1312)	M6020 ICP-MS	RD	For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non-homogeneity of the sample.
	WG407709	Lithium (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Magnesium (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Manganese (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407747	Mercury (1312)	M7470A CVAA	Q6	Sample was received above recommended temperature.
			M7470A CVAA	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Molybdenum (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nickel (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709	Potassium (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Selenium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Silver (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709	Sodium (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Thallium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709	Tin (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

42 MWT Mining Co, LLC ACZ Project ID: ***L31882***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
	WG408178	Uranium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Zinc (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407633	Bicarbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG407754	Bromide (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407675	Carbon, total organic (TOC) (1312-DI)	SM5310B	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			SM5310B	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
			SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407633	Carbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG407754	Chloride (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407633	Conductivity @25C (1312-DI)	SM2510B	Q6	Sample was received above recommended temperature.
	WG407648	Fluoride (1312 DI)	SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407633	Hydroxide as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG407687	Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407773	Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.

42 MWT Mining Co, LLC ACZ Project ID: ***L31882***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
			M350.1 Auto Salicylate w/gas diffusion	Q6	Sample was received above recommended temperature.
	WG407689	Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M365.1 - Automated Ascorbic Acid	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407761	Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407635	Residue, Filterable (TDS) @180C (1312)	SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407636	Residue, Non-Filter (TSS) @180C (1312)	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407754	Sulfate (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	RD	For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non-homogeneity of the sample.
	WG407633	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

Wet Chemistry

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Bicarbonate as CaCO3	SM2320B - Titration
Bromide (1312-DI)	M300.0 - Ion Chromatography
Carbonate as CaCO3	SM2320B - Titration
Chloride (1312-DI)	M300.0 - Ion Chromatography
Conductivity @25C (1312-DI)	SM2510B
Fluoride (1312 DI)	SM4500F-C
Hydroxide as CaCO3	SM2320B - Titration
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)
Residue, Filterable (TDS) @180C (1312)	SM2540C
Residue, Non-Filter (TSS) @180C (1312)	SM2540D
Sulfate (1312-DI)	M300.0 - Ion Chromatography
Total Alkalinity	SM2320B - Titration

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

42 MWT Mining Co, LLC

ACZ Project ID: L31882
Date Received: 07/21/2016 10:16
Received By: kmo
Date Printed: 7/22/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	X		

A change was made in the Project Information and Invoice to: section prior to ACZ custody.

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
NA24376	10.8	NA	15	Yes

Was ice present in the shipment container(s)?

No - Wet or gel ice was not present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

42 MWT Mining Co, LLC

ACZ Project ID:	L31882
Date Received:	07/21/2016 10:16
Received By:	kmo
Date Printed:	7/22/2016

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc. L31882 **CHAIN of CUSTODY**

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name:	Mickey W Tiner	Address:	P.O. Box 1443
Company:	42 MWT Mining Co LLC		Ouray, Co 81427
E-mail:	0	Telephone:	979-482-4339

Copy of Report to:

Name:	Charles R. Ponchak	E-mail:	CndPonchak@Gmail.com
Company:	42 MWT Mining Co LLC	Telephone:	970-249-2081

Invoice to:

Name:	Mickey W Tiner	Address:	P.O. Box 1443
Company:	42 MWT Mining Co LLC		Ouray Co 81427
E-mail:	Mickey.Tiner@Texas Bag.com	Telephone:	0

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? NA YES ☐ NO ☐

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes ☐ No ☒

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: C.R. Ponchak Sampler's Site Information State Colo Zip code 81427 Time Zone Mtn

*Sampler's Signature: C.R. Ponchak *I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

Quote #: Ruby-Trust-Mine SPLB

PO#:

Reporting state for compliance testing: MLRD G.J.

Check box if samples include NRC licensed material? ☐

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers								
# 1	10:30AM	mine	1	☐	☐	☐	☐	☐	☐	☐	☐
# 2	7-15-16	mine	1	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐

Matrix SW (Surface Water) GW (Ground Water) WW (Waste Water) DW (Drinking Water) SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

sent UPS From Montrose To Steamboat Springs

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
C.R. Ponchak	7-19-16 9:00 AM	MC	7-21-16 1000

FRMAD050.06.14.14 White - Return with sample. Yellow - Retain for your records.

L31882 Chain of Custody

AZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Quote

Quote Number: RUBY-TRUST-MINE-SPLP

Matrix: Soil — 2 Mine Rock Samples for SPLP Metals and Wetchem

Parameter	Method	Detection Limit	Cost/Sample
Inorganic Prep			
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)		$0.00
Total Hot Plate Digestion	M3010A ICP		$0.00
Total Hot Plate Digestion	M3010A ICP-MS		$0.00
Metals Analysis			
Aluminum (1312)	M6010B ICP	0.03 mg/L	$10.00
Antimony (1312)	M6020 ICP-MS	0.0004 mg/L	$19.00
Arsenic (1312)	M6020 ICP-MS	0.0002 mg/L	$19.00
Barium (1312)	M6020 ICP-MS	0.0005 mg/L	$19.00
Beryllium (1312)	M6020 ICP-MS	0.00005 mg/L	$19.00
Boron (1312)	M6010B ICP	0.01 mg/L	$10.00
Cadmium (1312)	M6020 ICP-MS	0.0001 mg/L	$19.00
Calcium (1312)	M6010B ICP	0.1 mg/L	$10.00
Chromium (1312)	M6020 ICP-MS	0.0005 mg/L	$19.00
Cobalt (1312)	M6020 ICP-MS	0.00005 mg/L	$19.00
Copper (1312)	M6020 ICP-MS	0.0005 mg/L	$19.00
Iron (1312)	M6010B ICP	0.02 mg/L	$10.00
Lead (1312)	M6020 ICP-MS	0.0001 mg/L	$19.00
Lithium (1312)	M6010B ICP	0.008 mg/L	$10.00
Magnesium (1312)	M6010B ICP	0.2 mg/L	$10.00
Manganese (1312)	M6020 ICP-MS	0.0005 mg/L	$19.00
Mercury (1312)	M7470A CVAA	0.0002 mg/L	$26.00
Molybdenum (1312)	M6020 ICP-MS	0.0005 mg/L	$19.00
Nickel (1312)	M6020 ICP-MS	0.0006 mg/L	$19.00
Potassium (1312)	M6010B ICP	0.2 mg/L	$10.00
Selenium (1312)	M6020 ICP-MS	0.0001 mg/L	$19.00
Silica (1312)	M6010B ICP	0.214 mg/L	$10.00
Silver (1312)	M6020 ICP-MS	0.00005 mg/L	$19.00
Sodium (1312)	M6010B ICP	0.2 mg/L	$10.00
Strontium (1312)	M6010B ICP	0.005 mg/L	$10.00
Thallium (1312)	M6020 ICP-MS	0.0001 mg/L	$19.00
Tin (1312)	M6010B ICP	0.04 mg/L	$10.00
Uranium (1312)	M6020 ICP-MS	0.0001 mg/L	$19.00
Vanadium (1312)	M6020 ICP-MS	0.0002 mg/L	$19.00
Zinc (1312)	M6020 ICP-MS	0.002 mg/L	$19.00

Misc.			
Electronic Data Deliverable			$0.00
Quality Control Summary			$0.00
Sample Preparation			
Synthetic Precip. Leaching Procedure	M1312		$75.00
Synthetic Precip. Leaching Procedure	M1312, DI Water		$75.00
Soil Analysis			
pH, (1312)	M9045D/M9040C	0.1 C	$8.00
Sample Weight	Rad Disposal Compliance	g	$7.00
Wet Chemistry			
Alkalinity (1312 DI)	SM2320B - Titration	2 mg/L	$11.00
Bromide (1312-DI)	M300.0 - Ion Chromatography	0.05 mg/L	$13.00
Carbon, total organic (TOC) (1312-DI)	SM5310B	1 mg/L	$36.00
Chloride (1312-DI)	M300.0 - Ion Chromatography	0.5 mg/L	$13.00
Conductivity @25C (1312-DI)	SM2510B	1 umhos/cm	$8.00
Fluoride (1312 DI)	SM4500F-C	0.05 mg/L	$11.00
Hardness as CaCO3 (1312)	SM2340B - Calculation	Calculation	$0.00
Nitrate (1312 DI)	Calculation: NO3NO2 minus NO2	Calculation	$0.00
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Redu	0.02 mg/L	$11.00
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Redu	0.01 mg/L	$11.00
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusi	0.05 mg/L	$11.00
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid	0.02 mg/L	$11.00
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	0.02 mg/L	$28.00
Residue, Filterable (TDS) @180C (1312)	SM2540C	10 mg/L	$13.00
Residue, Non-Filter (TSS) @180C (1312)	SM2540D	5 mg/L	$11.00
Sulfate (1312-DI)	M300.0 - Ion Chromatography	0.5 mg/L	$13.00
		Cost/Sample:	**$844.00**

This quote is based on a Standard Turn Around Time of approximately 21 days for soil and solid matrices (15 business days). TAT may vary with seasonal heavy workload. Please contact your PM if rush TAT is required. Rush TAT needs to be pre-approved prior to sample shipment to assure that due dates can be met. Pricing includes standard reporting formats and standard ACZ EDDs. All projects received are subject to a $125.00 Minimum Charge. Please note that method detection limits are estimates and may be elevated depending on sample matrix that require dilution. Pricing includes coolers, soil jars or bags, labels, COCs and ice-packs (if needed for your analysis), shipped to your site or office via UPS ground. Return shipping is the responsibility of the client. Please allow ample time for your bottles to arrive. Please note that soil preparation charges may change based on the condition and volume of sample(s) upon receipt. Wet samples may increase the TAT if air-drying is needed required. ACZ assigns a Project Manager to all of our clients. Your Project Manager is Max Janicek and he will serve as your main point of contact for all bottle orders, report statuses, questions on your data and changes to your account. Max can be reached at maxj@acz.com or 970-879-6590 ext 128.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Quote

Quote Number: RUBY-TRUST-MINE-SPLP

CONTRACT DETAILS

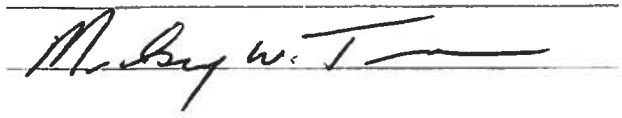
Pricing includes shipment of all standard sample containers and related paperwork by UPS Ground Service. Please allow three to five days for delivery when ordering containers. ACZ must be notified prior to receiving samples of all special requests such as electronic data deliverables or special reporting reqirements. The client will be charged for special sample containers or express shipping and additional charges may apply for non-standard requests.

This quotation is valid for six months from the bid date unless specified otherwise in the bid. All bids must be signed and returned to ACZ before the project(s) is received. The authorized signature represents acceptance of the pricing as well as the general terms and conditions of ACZ Laboratories, Inc. which may be downloaded from our web site at http://www.acz.com/PDF/termsconditions.pdf. Please note that MDL's in this quote may possibly increase due to sample matrix or samples with high TDS.

All orders that require shipping of coolers are subject to a minimum charge of $200.00. Local orders without shipping are subject to a minimum charge of $125.00. Samples may incur a $11.00/sample disposal fee for any samples deemed to be hazardous.

ACZ Representative (Authorized signature and date)

Client Representative (Authorized signature and date)



ACZ Laboratories, Inc.

2773 Downhill Drive, Steamboat springs, CO 80487 (800) 334-5493 sales@acz.com

Account Setup Form

An account must be setup with ACZ prior to the laboratory receiving any samples. Please fill out the information requested below and email it back along with a completed one page credit application. In lieu of the credit application, ACZ also accepts major credit cards. Please contact your sales representative by phone if paying with a credit card. All information is required for setting up an account with ACZ.

Reporting Contact

Name: 42 MWT Mining Co. LLC	State:
Company name:	Zip:
Address:	Phone:
	Fax:
City:	Email:

Copied on Reports

Name: Mickey W. TINER	State:
Company name: 42 MWT Mining Co LLC	Zip:
Address: PO Box 1443	Phone: 970-325-4583
	Fax:
City: Ouray, Co. 81427	Email:

Shipping Contact

Name: Charles R. Ponchet	State:
Company name: 42 MWT Mining Co LLC	Zip:
Address (No POBs): 15292 6050 Rd	Phone: 970-249-2081
	Fax:
City: Montrose Co 81403	Email:

Billing Contact

Name: Mickey W. TINER	State:
Company name: 42 MWT Mining Co LLC	Zip:
Address: P.O Box 1443	Phone: 979-482-4339
	Fax:
City: Ouray, Co. 81427	Email:

Additional Comments

LABID	CLIENTID	F	DEPTNAM	COLLECTI	RECEIVEI	ANALYTE	MATRIX	METHOD	RESULT	TEXTRES	QUAL	UNITS	MDL	PQL	ANALYZEI	ANALYST	CAS
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Aluminum	SO	M6010B IC	0.26	0.26		mg/L	0.03	0.2	8/5/2016	gss	7429-90-5
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Antimony (	SO	M6020 ICF	0.0018	0.0018	B	mg/L	0.0004	0.002	8/15/2016	enb	7440-36-0
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Arsenic (1	SO	M6020 ICF	0.0009	0.0009	B	mg/L	0.0002	0.001	8/15/2016	enb	7440-38-2
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Barium (13	SO	M6020 ICF	0.1309	0.1309		mg/L	0.0005	0.003	8/15/2016	enb	7440-39-3
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Beryllium (	SO	M6020 ICP-MS			U	mg/L	0.00005	0.0003	8/15/2016	enb	7440-41-7
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Boron (131	SO	M6010B ICP			U	mg/L	0.01	0.05	8/5/2016	gss	7440-42-8
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Cadmium (	SO	M6020 ICP-MS			U	mg/L	0.0001	0.0005	8/15/2016	enb	7440-43-9
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Calcium (1	SO	M6010B IC	11.2	11.2		mg/L	0.1	0.5	8/5/2016	gss	7440-70-2
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Chromium	SO	M6020 ICP-MS			U	mg/L	0.0005	0.002	8/15/2016	enb	7440-47-3
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Cobalt (13	SO	M6020 ICP-MS			U	mg/L	0.00005	0.0003	8/15/2016	enb	7440-48-4
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Copper (13	SO	M6020 ICP-MS			U	mg/L	0.0005	0.003	8/15/2016	enb	7440-50-8
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Iron (1312	SO	M6010B ICP			U	mg/L	0.02	0.05	8/5/2016	gss	7439-89-6
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Lead (1312	SO	M6020 ICP-MS			U	mg/L	0.0001	0.0005	8/15/2016	enb	7439-92-1
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Lithium (13	SO	M6010B ICP			U	mg/L	0.008	0.04	8/5/2016	gss	7439-93-2
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Magnesiun	SO	M6010B IC	0.4	0.4	B	mg/L	0.2	1	8/5/2016	gss	7439-95-4
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Manganes	SO	M6020 ICF	0.0068	0.0068		mg/L	0.0005	0.003	8/15/2016	enb	7439-96-5
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Mercury (1	SO	M7470A CVAA			U	mg/L	0.0002	0.001	8/10/2016	pta	7439-97-6
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Molybdenu	SO	M6020 ICP-MS			U	mg/L	0.0005	0.003	8/15/2016	enb	7439-98-7
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Nickel (13	SO	M6020 ICP-MS			U	mg/L	0.0006	0.003	8/15/2016	enb	7440-02-0
L31882-01	#1		Metals An	7/15/2016	7/21/2016	Potassium	SO	M6010B IC	2.9	2.9		mg/L	0.2	1	8/5/2016	gss	7440-09-7
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Selenium (	SO	M6020 ICF	0.0015	0.0015		mg/L	0.0001	0.0003	8/15/2016	enb	7782-49-2
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Silica (131	SO	M6010B IC	4.3	4.3		mg/L	0.2	1	8/5/2016	gss	7631-86-9
L31882-01	#1		Metals An	7/15/2016	7/21/2016	Silver (131	SO	M6020 ICF	0.00006	0.00006	B	mg/L	0.00005	0.0003	8/15/2016	enb	7440-22-4
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Sodium (1	SO	M6010B IC	2.5	2.5		mg/L	0.2	1	8/5/2016	gss	7440-23-5
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Strontium	SO	M6010B IC	0.329	0.329		mg/L	0.005	0.03	8/5/2016	gss	7440-24-6
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Thallium (1	SO	M6020 ICP-MS			U	mg/L	0.0001	0.0005	8/15/2016	enb	7440-28-0
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Tin (1312)	SO	M6010B ICP			U	mg/L	0.04	0.2	8/5/2016	gss	7440-31-5
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Uranium (	SO	M6020 ICP-MS			U	mg/L	0.0001	0.0005	8/15/2016	enb	7440-61-1
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Vanadium	SO	M6020 ICF	0.0008	0.0008	B	mg/L	0.0002	0.001	8/15/2016	enb	7440-62-2
L31882-01	#1		Metals Ana	7/15/2016	7/21/2016	Zinc (1312	SO	M6020 ICP-MS			U	mg/L	0.002	0.005	8/15/2016	enb	7440-66-6
L31882-01	#1		Soil Analys	7/15/2016	7/21/2016	pH	SO	M9045D/M	9	9.0		units	0.1	0.1	8/3/2016	arc	
L31882-01	#1		Soil Analys	7/15/2016	7/21/2016	pH measu	SO	M9045D/M	22.6	22.6		C	0.1	0.1	8/3/2016	arc	
L31882-01	#1		Wet Chem	7/15/2016	7/21/2016	Bicarbonat	SO	SM2320B	21.9	21.9		mg/L	2	20	8/4/2016	abd	10139
L31882-01	#1		Wet Chem	7/15/2016	7/21/2016	Bromide (1	SO	M300.0 - Ion Chromat			U	mg/L	0.05	0.25	8/10/2016	bsu	
L31882-01	#1		Wet Chem	7/15/2016	7/21/2016	Carbon, to	SO	SM5310B			U	mg/L	1	5	8/4/2016	bsu	10355
L31882-01	#1		Wet Chem	7/15/2016	7/21/2016	Carbonate	SO	SM2320B	7.8	7.8	B	mg/L	2	20	8/4/2016	abd	
L31882-01	#1		Wet Chem	7/15/2016	7/21/2016	Chloride (1	SO	M300.0 - Ion Chromat			U	mg/L	0.5	2.5	8/5/2016	bsu	16887-00-6
L31882-01	#1		Wet Chem	7/15/2016	7/21/2016	Conductiv	SO	SM2510B	114	114		umhos/cm	1	10	8/4/2016	abd	
L31882-01	#1		Wet Chem	7/15/2016	7/21/2016	Fluoride (1	SO	SM4500F-	0.11	0.11	B	mg/L	0.05	0.3	8/4/2016	abd	16984-48-8
L31882-01	#1		Wet Chem	7/15/2016	7/21/2016	Hardness	SO	SM2340B	30	30		mg/L	0.2	5	8/18/2016	calc	
L31882-01	#1		Wet Chem	7/15/2016	7/21/2016	Hydroxide	SO	SM2320B - Titration			U	mg/L	2	20	8/4/2016	abd	
L31882-01	#1		Wet Chem	7/15/2016	7/21/2016	Nitrate (13	SO	Calculatior	0.03	0.03	B	mg/L	0.02	0.1	8/18/2016	calc	
L31882-01	#1		Wet Chem	7/15/2016	7/21/2016	Nitrate/Nitr	SO	M353.2 - A	0.03	0.03	B	mg/L	0.02	0.1	8/4/2016	pjb	
L31882-01	#1		Wet Chem	7/15/2016	7/21/2016	Nitrite as N	SO	M353.2 - Automated C			U	mg/L	0.01	0.05	8/4/2016	pjb	NO2-N
L31882-01	#1		Wet Chem	7/15/2016	7/21/2016	Nitrogen, a	SO	M350.1 Au	0.43	0.43		mg/L	0.05	0.2	8/6/2016	krh	
L31882-01	#1		Wet Chem	7/15/2016	7/21/2016	Phosphoru	SO	M365.1 - A	0.02	0.02	B	mg/L	0.02	0.05	8/4/2016	pjb	7723-14-0
L31882-01	#1		Wet Chem	7/15/2016	7/21/2016	Phosphoru	SO	M365.1 - Auto Ascorb			U	mg/L	0.02	0.05	8/5/2016	pjb	7723-14-0
L31882-01	#1		Wet Chem	7/15/2016	7/21/2016	Residue, F	SO	SM2540C	70	70		mg/L	10	20	8/4/2016	abd	
L31882-01	#1		Wet Chem	7/15/2016	7/21/2016	Residue, N	SO	SM2540D			U	mg/L	5	20	8/4/2016	abd	

L31882-01	#1	Wet Chem	7/15/2016	7/21/2016	Sulfate (13	SO	M300.0 - Ic	11.7	11.7		mg/L	0.5	2.5	8/5/2016	bsu	14808-79-8
L31882-01	#1	Wet Chem	7/15/2016	7/21/2016	Total Alkal	SO	SM2320B	29.7	29.7		mg/L	2	20	8/4/2016	abd	10093
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Aluminum	SO	M6010B IC	0.39	0.39		mg/L	0.03	0.2	8/5/2016	gss	7429-90-5
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Antimony (	SO	M6020 ICF	0.002	0.0020		mg/L	0.0004	0.002	8/15/2016	enb	7440-36-0
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Arsenic (1	SO	M6020 ICF	0.0012	0.0012		mg/L	0.0002	0.001	8/15/2016	enb	7440-38-2
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Barium (13	SO	M6020 ICF	0.1123	0.1123		mg/L	0.0005	0.003	8/15/2016	enb	7440-39-3
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Beryllium (	SO	M6020 ICP-MS			U	mg/L	0.00005	0.0003	8/15/2016	enb	7440-41-7
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Boron (131	SO	M6010B ICP			U	mg/L	0.01	0.05	8/5/2016	gss	7440-42-8
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Cadmium (	SO	M6020 ICP-MS			U	mg/L	0.0001	0.0005	8/15/2016	enb	7440-43-9
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Calcium (1	SO	M6010B IC	8.5	8.5		mg/L	0.1	0.5	8/5/2016	gss	7440-70-2
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Chromium	SO	M6020 ICP-MS			U	mg/L	0.0005	0.002	8/15/2016	enb	7440-47-3
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Cobalt (13	SO	M6020 ICP-MS			U	mg/L	0.00005	0.0003	8/15/2016	enb	7440-48-4
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Copper (13	SO	M6020 ICF	0.0012	0.0012	B	mg/L	0.0005	0.003	8/15/2016	enb	7440-50-8
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Iron (1312)	SO	M6010B IC	0.03	0.03	B	mg/L	0.02	0.05	8/5/2016	gss	7439-89-6
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Lead (1312	SO	M6020 ICF	0.0001	0.0001	B	mg/L	0.0001	0.0005	8/15/2016	enb	7439-92-1
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Lithium (13	SO	M6010B ICP			U	mg/L	0.008	0.04	8/5/2016	gss	7439-93-2
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Magnesiun	SO	M6010B IC	0.3	0.3	B	mg/L	0.2	1	8/5/2016	gss	7439-95-4
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Manganes	SO	M6020 ICF	0.0035	0.0035		mg/L	0.0005	0.003	8/15/2016	enb	7439-96-5
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Mercury (1	SO	M7470A CVAA			U	mg/L	0.0002	0.001	8/10/2016	pta	7439-97-6
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Molybdenu	SO	M6020 ICP-MS			U	mg/L	0.0005	0.003	8/15/2016	enb	7439-98-7
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Nickel (13	SO	M6020 ICP-MS			U	mg/L	0.0006	0.003	8/15/2016	enb	7440-02-0
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Potassium	SO	M6010B IC	2.6	2.6		mg/L	0.2	1	8/5/2016	gss	7440-09-7
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Selenium (	SO	M6020 ICF	0.001	0.0010		mg/L	0.0001	0.0003	8/15/2016	enb	7782-49-2
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Silica (131	SO	M6010B IC	5.5	5.5		mg/L	0.2	1	8/5/2016	gss	7631-86-9
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Silver (131	SO	M6020 ICP-MS			U	mg/L	0.00005	0.0003	8/15/2016	enb	7440-22-4
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Sodium (1	SO	M6010B IC	3	3		mg/L	0.2	1	8/5/2016	gss	7440-23-5
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Strontium (	SO	M6010B IC	0.223	0.223		mg/L	0.005	0.03	8/5/2016	gss	7440-24-6
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Thallium (1	SO	M6020 ICP-MS			U	mg/L	0.0001	0.0005	8/15/2016	enb	7440-28-0
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Tin (1312)	SO	M6010B ICP			U	mg/L	0.04	0.2	8/5/2016	gss	7440-31-5
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Uranium (1	SO	M6020 ICP-MS			U	mg/L	0.0001	0.0005	8/15/2016	enb	7440-61-1
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Vanadium	SO	M6020 ICF	0.0011	0.0011		mg/L	0.0002	0.001	8/15/2016	enb	7440-62-2
L31882-02	#2	Metals Ana	7/15/2016	7/21/2016	Zinc (1312	SO	M6020 ICP-MS			U	mg/L	0.002	0.005	8/15/2016	enb	7440-66-6
L31882-02	#2	Soil Analys	7/15/2016	7/21/2016	pH	SO	M9045D/M	9.1	9.1		units	0.1	0.1	8/3/2016	arc	
L31882-02	#2	Soil Analys	7/15/2016	7/21/2016	pH measur	SO	M9045D/M	22.7	22.7		C	0.1	0.1	8/3/2016	arc	
L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Bicarbonat	SO	SM2320B	17.5	17.5	B	mg/L	2	20	8/4/2016	abd	10139
L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Bromide (1	SO	M300.0 - Ion Chromat			U	mg/L	0.05	0.25	8/10/2016	bsu	
L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Carbon, to	SO	SM5310B			U	mg/L	1	5	8/4/2016	bsu	10355
L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Carbonate	SO	SM2320B	10.5	10.5	B	mg/L	2	20	8/4/2016	abd	
L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Chloride (1	SO	M300.0 - Ion Chromat			U	mg/L	0.5	2.5	8/5/2016	bsu	16887-00-6
L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Conductivi	SO	SM2510B	98.1	98.1		umhos/cm	1	10	8/4/2016	abd	
L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Fluoride (1	SO	SM4500F-	0.18	0.18	B	mg/L	0.05	0.3	8/4/2016	abd	16984-48-8
L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Hardness a	SO	SM2340B	23	23		mg/L	0.2	5	8/18/2016	calc	
L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Hydroxide	SO	SM2320B - Titration			U	mg/L	2	20	8/4/2016	abd	
L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Nitrate (13	SO	Calculation	0.06	0.06	B	mg/L	0.02	0.1	8/18/2016	calc	
L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Nitrate/Nitr	SO	M353.2 - A	0.06	0.06	B	mg/L	0.02	0.1	8/4/2016	pjb	
L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Nitrite as N	SO	M353.2 - Automated C			U	mg/L	0.01	0.05	8/4/2016	pjb	NO2-N
L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Nitrogen, a	SO	M350.1 Au	0.64	0.64		mg/L	0.05	0.2	8/6/2016	krh	
L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Phosphoru	SO	M365.1 - Automated A			U	mg/L	0.02	0.05	8/4/2016	pjb	7723-14-0
L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Phosphoru	SO	M365.1 - Auto Ascorb			U	mg/L	0.02	0.05	8/5/2016	pjb	7723-14-0
L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Residue, F	SO	SM2540C	56	56		mg/L	10	20	8/4/2016	abd	

L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Residue, N	SO	SM2540D			U	mg/L	5	20	8/4/2016	abd	
L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Sulfate (13	SO	M300.0 - Id	8.35	8.35		mg/L	0.5	2.5	8/5/2016	bsu	14808-79-8
L31882-02	#2	Wet Chem	7/15/2016	7/21/2016	Total Alkal	SO	SM2320B	28	28.0		mg/L	2	20	8/4/2016	abd	10093