

11/11/13



Technical Report for

Colorado Division of Rec, Mining & Safety

Cresson Project

M-1980-244

Accutest Job Number: D52017

Sampling Date: 10/30/13

Report to:

Colorado Division of Rec, Mining & Safety 1313 Sherman Street Room 215 Denver, CO 80203 tim.crazier@state.co.us

ATTN: Tim Crazier

Total number of pages in report: 28



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Scott Heideman Laboratory Director

Sepol wall

Client Service contact: Shea Greiner 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), TX (T104704511)

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Sample Summary

Colorado Division of Rec, Mining & Safety

Job No: D52017

Cresson Project Project No: M-1980-244

Sample Number	Collected Date	Time By	Received	Matri Code		Client Sample ID
D52017-1	10/30/13	11:05 TC	10/31/13	AQ	Ground Water	S. UNDER
D70017 1E	10/00/10	11 OF TO	10/01/10	4.0		C LINDED
D52017-1F	10/30/13	11:05 TC	10/31/13	AQ	Groundwater Filtered	S. UNDER
D52017-2	10/30/13	11:40 TC	10/31/13	AQ	Ground Water	3B-63
D52017-2F	10/30/13	11:40 TC	10/31/13	AQ	Groundwater Filtered	3B-63
D52017-3	10/30/13	14:15 TC	10/31/13	AQ	Ground Water	CRMW 5C-60
D52017-3F	10/30/13	14:15 TC	10/31/13	AQ	Groundwater Filtered	CRMW 5C-60





CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Colorado Division of Rec, Mining & Safety Job No D52017

Site: Cresson Project Report Date 11/11/2013 1:36:11 PM

On 10/31/2013, 3 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 1.8 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D52017 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals By Method EPA 200.7

Matrix AQ Batch ID: MP11563

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D52064-2MS, D52064-2MSD were used as the QC samples for the metals analysis.

Wet Chemistry By Method EPA 300.0/SW846 9056

Matrix AQ Batch ID: GP11289

- All samples were prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D52017-3MS, D52017-3MSD were used as the QC samples for the Sulfate analysis.

Wet Chemistry By Method SM 4500CN I-2011

Matrix AQ Batch ID: GP11304

- All samples were prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D52017-2MS were used as the QC samples for the Weak Acid Dissociable Cn analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Summary of Hits
Job Number: D52017
Account: Colorado Division of Rec,Mining & Safety

Cresson Project 10/30/13 **Project: Collected:**

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D52017-1	S. UNDER					
Sulfate Weak Acid Disso	ociable Cn	1320 0.0063	50 0.0050		mg/l mg/l	EPA 300.0/SW846 9056 SM 4500CN I-2011
D52017-1F	S. UNDER					
Zinc		1100	60		ug/l	EPA 200.7
D52017-2	3B-63					
Sulfate		892	25		mg/l	EPA 300.0/SW846 9056
D52017-2F	3B-63					
Zinc		83.1	30		ug/l	EPA 200.7
D52017-3	CRMW 5C-60					
Sulfate		137	5.0		mg/l	EPA 300.0/SW846 9056
D52017-3F	CRMW 5C-60					
No hits reported	in this sample.					





Sample Results	
Report of Analysis	



Report of Analysis

Client Sample ID: S. UNDER Lab Sample ID: D52017-1

Matrix: AQ - Ground Water Date Received: 10/31/13 Percent Solids: n/a

Project: Cresson Project **Date Sampled:** 10/30/13

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
3 • •							

mg/l **Sulfate** 1320 **50** 100 10/31/13 15:29 KB EPA 300.0/SW846 9056 Weak Acid Dissociable Cn 0.00630.0050mg/l 11/04/13 12:39 RW 1 SM 4500CN I-2011

.

Report of Analysis

Client Sample ID: S. UNDER

Lab Sample ID:D52017-1FDate Sampled:10/30/13Matrix:AQ - Groundwater FilteredDate Received:10/31/13

Percent Solids: n/a

Project: Cresson Project

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Zinc	1100	60	ug/l	2	11/02/13	11/05/13 јм	EPA 200.7 ¹	EPA 200.7 ²

(1) Instrument QC Batch: MA4159(2) Prep QC Batch: MP11563

Report of Analysis

Client Sample ID: 3B-63 Lab Sample ID: D52017-2

Lab Sample ID: D52017-2 Date Sampled: 10/30/13
Matrix: AQ - Ground Water Date Received: 10/31/13
Percent Solids: n/a

Project: Cresson Project

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sulfate	892	25	mg/l	50	10/31/13 15:41		EPA 300.0/SW846 9056
Weak Acid Dissociable Cn	< 0.0050	0.0050	mg/l	1	11/04/13 12:40		SM 4500CN I-2011

Report of Analysis

Client Sample ID: 3B-63

Lab Sample ID:D52017-2FDate Sampled:10/30/13Matrix:AQ - Groundwater FilteredDate Received:10/31/13

Percent Solids: n/a

Project: Cresson Project

Dissolved Metals Analysis

Analyte Result RLUnits DF Analyzed By Method **Prep Method** Prep EPA 200.7² Zinc **30** 11/02/13 11/05/13 JB EPA 200.7 ¹ 83.1 ug/l 1

(1) Instrument QC Batch: MA4154(2) Prep QC Batch: MP11563

Report of Analysis

Client Sample ID: CRMW 5C-60 Lab Sample ID: D52017-3

Lab Sample ID: D52017-3 Date Sampled: 10/30/13
Matrix: AQ - Ground Water Date Received: 10/31/13
Percent Solids: n/a

Project: Cresson Project

<u>,</u>

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sulfate	137	5.0	mg/l	10	10/31/13 15:53	KB	EPA 300.0/SW846 9056
Weak Acid Dissociable Cn	< 0.0050	0.0050	mg/l	1	11/04/13 12:42	RW	SM 4500CN I-2011

Report of Analysis

Client Sample ID: CRMW 5C-60

Lab Sample ID: D52017-3F Date Sampled: 10/30/13
Matrix: AQ - Groundwater Filtered Date Received: 10/31/13
Percent Solids: n/a

Project: Cresson Project

Dissolved Metals Analysis

Analyte Result RLUnits DF Analyzed By Method **Prep Method** Prep EPA 200.7² Zinc **30** 11/02/13 11/05/13 JB EPA 200.7 ¹ < 30 ug/l 1

(1) Instrument QC Batch: MA4154(2) Prep QC Batch: MP11563



Misc. Forms
Custody Documents and Other Forms
Includes the following where applicable:

• Chain of Custody

PAGE ___ OF ___

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CHAIN OF CUSTODY

	ALILIUIES			Accu 4036 Young		ratories M			22					FED-EX	Tracking	a				Bottle O	der Con	trol #				
	LABORATORI	168			3-425-60		77-737-4		33					Accutest	Quote #					Accutest	Job #	N	520	17		
	Client / Reporting Information			Proj		ormatic			100						Regi	iestec	Anal	vsis (s	ee T	EST C	ODE:	sheet)	PORTUNATION OF	mi	Matrix Codes	
Compa	Name D J M Star & CARRETY	Project Name	son fa	alex																					DW - Drinking Water	
Street A	. Red. MIMIN SAFETY	Street:		01661								(10) (S													GW - Ground Water WW - Water	
13	13 SHERMAN ST ROUN	2/5			E	Billing Inf	ormatio	n (H	differ	ent fi	rom F	Report	to)		\Im										SW - Surface Water SO - Soil	
Deer	VUEL CO BO203	City:	0.115		Comp	any Name									'n										SL- Sludge SED-Sediment	
Project	Contact E-mail	Project#			Street	Address		_							_									ĺ	OI - Oil LIO - Other Liquid	
Phone	13 SHERMAN ST ROUM Store VUER CO 90203 Contact N CAZIER tim Cozice Face	M-1980	1-248		City				State			Zip			77										AIR - Air SOL - Other Solid	
303	7-866-3567 x 9169 (s) Name(s) Phone #													0	Ľ										WP - Wipe FB-Field Blank	
Sample	r(s) Nome(s) Phone # M CA = 26R 3/866-3567	Project Manager			Attent	ion:				PO	¥			4	E										EB- Equipment Blank RB- Rinse Blank	
1 11	M C A EIBR 3/866-3567			Collection				1	Norma			ad Bottle		1	N N	Ł									TB-Trip Blank	
	X U i v	7		Collection	I	1		Н		-	la	. 1		3	210	0		ķ	-	E	NO	TE		ľ		
Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Motrix	≠ of bottles	모	HO9H HN03	H2SO	NONE	MEOH	ENCORE	U	0	N	NATURE WATER		,	_					LAB USE ONLY	
	S. UNDER		10/30/13	11:05	res	0W	3	П	1		2.	П		ı	0	1								T	01	
	38-63		10/30/13	11:46	TOI	GW	3	П	1		2.			1)	1					***********				G Z	
	CRMW 5 C-60		10/20/13	14:15			3		1	T	2	TT		1	1	1								\neg	05	
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	Turnaround Time (Business days) Std. 10 Business Days	Approved By (Acc	utest PM): / Date:			Commerc						State F EDD F				5. 4	NUD	ER	DI	155	ME	7 5	AM	DL	Æ	
	Std. 5 Business Days (By Contract only)				×	Commerc	:la! "B" +l	Narral			_	PDF					4/1	C11 7	- 5 1	2-1		Da .	= AC	p#	FILTER	
	5 Day RF SH 3 Day EMERGENCI					FULLT1	(Level 3+	4)																		
-	2 Day EMERGENG				1		Commer	cial "A	\" = Re	sults	Only					B	e Fo	RE	P.	uN	N I	NG	ANI	96	YSES	
_	1 Day EMERGENG						Commer	cial "B	8" = Re	sults	+ QC :	Summo	ii)		•											
Em	ergency & Rush T/A data available VIA Lablink	Sar	nple Custody mu	ust be docun	rented b	slow sa	ch time s					sessi	on, inc	luding	couri											
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D52017: Chain of Custody Page 1 of 2





Accutest Laboratories Sample Receipt Summary

ACC	UTEST
	LABODATOBLES

V:(303) 425-6021

Accutest Job Number: D52017 Client: DIV. RED. MINING &SAFETY Immediate Client Services Action Required: Date / Time Received: 10/31/2013 7:40:00 AM Client Service Action Required at Login: No. Coolers: Project: CRESSON PROJECT Airbill #'s: HD **Cooler Security** Y or N Y or N Y or N **Sample Integrity - Documentation** 3. COC Present: V **v** 1. Custody Seals Present: 1 1. Sample labels present on bottles: **V** 4. Smpl Dates/Time OK ✓ 2. Custody Seals Intact: **✓** 2. Container labeling complete: 3. Sample container label / COC agree: ✓ **Cooler Temperature** Y or N 1. Temp criteria achieved: • Y or N **Sample Integrity - Condition** 2. Cooler temp verification: Infared gun ✓ 1. Sample recvd within HT: 3. Cooler media: Ice (bag) **✓** 2. All containers accounted for: 3. Condition of sample: Intact **Quality Control Preservation** Y or N N/A 1. Trip Blank present / cooler: Sample Integrity - Instructions Y or N N/A 2. Trip Blank listed on COC: 1. Analysis requested is clear: ✓ 3. Samples preserved properly: **✓** 2. Bottles received for unspecified tests • 4. VOCs headspace free: 3. Sufficient volume rec'd for analysis: **✓ ✓** 4. Compositing instructions clear: ✓ 5. Filtering instructions clear: ✓ Comments 4036 Youngfield Street F: (303) 425-6854 Wheat Ridge, CO Accutest Laboratories

> **D52017: Chain of Custody** Page 2 of 2



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Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: D52017

Account: CDRMSCOD - Colorado Division of Rec, Mining & Safety

Project: Cresson Project

QC Batch ID: MP11563 Methods: EPA 200.7 Matrix Type: AQUEOUS Units: ug/l

Prep Date:

11/02/13

Motal	DT	TDI	MDT	MB	final
Metal	RL	IDL	MDL	raw	final
Aluminum Antimony	100 30	11 2.1	11 21		
Arsenic	25	3.8	9		
Barium	10	. 2	1.4		
Beryllium	10	.9	1.7		
Boron	50	.8	6.6		
Cadmium	10	. 2	.36		
Calcium	400	2.4	66		
Chromium	10	.3	1.4		
Cobalt	5.0	. 5	.51		
Copper	10	.8	1.5		
Iron	10	1.5	3.2		
Lead	50	2.1	4.1		
Lithium	5.0	. 4	1.9		
Magnesium	200	6.8	29		
Manganese	5.0	.5	.29		
Molybdenum	10	. 4	1.1		
Nickel	30	. 5	.87		
Phosphorus	100	15	24		
Potassium	1000	99	230		
Selenium	50	7.1	9.3		
Silicon	50	4.7	5.6		
Silver	30	.3	. 4		
Sodium	400	7.3	36		
Strontium	5.0	.01	.12		
Thallium	10	1.8	4.9		
Tin	50	12	13		
Titanium	10	.1	.43		
Uranium	50	2.9	3.9		
Vanadium	10	. 4	.39		
				1 1	<30
Zinc	30	. 4	1.9	1.1	<30

Associated samples MP11563: D52017-1F, D52017-2F, D52017-3F

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits



BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: D52017

Account: CDRMSCOD - Colorado Division of Rec, Mining & Safety

Project: Cresson Project

QC Batch ID: MP11563 Methods: EPA 200.7 Matrix Type: AQUEOUS Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

Login Number: D52017

Account: CDRMSCOD - Colorado Division of Rec,Mining & Safety
Project: Cresson Project

QC Batch ID: MP11563 Methods: EPA 200.7 Matrix Type: AQUEOUS Units: ug/l

Prep Date: 11/02/13

Metal	D52064-2 Original MS	Spikelot ICPALL2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	anr			
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	1590 2080	500	98.0	70-130
Associated sar	mples MP11563: D52	2017-1F, D	52017-2F,	D52017-3F

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits $% \left(1,0\right) =0$

Login Number: D52017

Account: CDRMSCOD - Colorado Division of Rec,Mining & Safety
Project: Cresson Project

QC Batch ID: MP11563 Methods: EPA 200.7 Matrix Type: AQUEOUS Units: ug/1

Prep Date:

Metal

(N) Matrix Spike Rec. outside of QC limits (anr) Analyte not requested $\,$

Login Number: D52017

Account: CDRMSCOD - Colorado Division of Rec,Mining & Safety
Project: Cresson Project

QC Batch ID: MP11563 Methods: EPA 200.7 Matrix Type: AQUEOUS Units: ug/l

Prep Date:

11/02/13

Metal	D52064 Origina		Spikel ICPALI	lot 12 % Rec	MSD RPD	QC Limi
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Iron	anr					
Lead	anr					
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Phosphorus						
Potassium						
Selenium						
Silicon						
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc	1590	2030	500	88.0	2.4	2
Associated sa	amples MP	11563: D5	2017-1F,	D52017-2F,	D52017-3E	?
Results < IDI			o for cal	culation p	urposes	
Outside o						

Login Number: D52017

Account: CDRMSCOD - Colorado Division of Rec,Mining & Safety
Project: Cresson Project

QC Batch ID: MP11563 Methods: EPA 200.7 Matrix Type: AQUEOUS Units: ug/1

Prep Date:

Metal

(N) Matrix Spike Rec. outside of QC limits (anr) Analyte not requested $\,$

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D52017

Account: CDRMSCOD - Colorado Division of Rec,Mining & Safety
Project: Cresson Project

QC Batch ID: MP11563 Methods: EPA 200.7 Matrix Type: AQUEOUS Units: ug/l

Prep Date: 11/02/13

Metal	BSP Result	Spikelot ICPALL2		QC Limits		
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Iron	anr					
Lead	anr					
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Phosphorus						
Potassium						
Selenium						
Silicon						
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc	497	500	99.4	85-115		
Associated sa					D52017_3¤	ਸ ਸ

Associated samples MP11563: D52017-1F, D52017-2F, D52017-3F

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits

6.1.3

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D52017

Account: CDRMSCOD - Colorado Division of Rec,Mining & Safety
Project: Cresson Project

QC Batch ID: MP11563 Methods: EPA 200.7 Matrix Type: AQUEOUS Units: ug/1

Prep Date:

Metal

(anr) Analyte not requested



General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries



METHOD BLANK AND SPIKE RESULTS SUMMARY GENERAL CHEMISTRY

Login Number: D52017

Account: CDRMSCOD - Colorado Division of Rec, Mining & Safety Project: Cresson Project

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP11289/GN22507	0.50	0.0	mg/l	20	21.0	105.0	90-110%
Nitrogen, Nitrate	GP11289/GN22507	0.010	0.0	mg/l	4.52	4.85	107.3	90-110%
Sulfate	GP11289/GN22507	0.50	0.0	mg/l	30	31.9	106.3	90-110%
Weak Acid Dissociable Cn	GP11304/GN22532	0.0050	0.0	mg/l	0.1	0.110	110.0	90-110%

Associated Samples: Batch GP11289: D52017-1, D52017-2, D52017-3 Batch GP11304: D52017-1, D52017-2, D52017-3 (*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY GENERAL CHEMISTRY

Login Number: D52017

Account: CDRMSCOD - Colorado Division of Rec, Mining & Safety
Project: Cresson Project

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP11289/GN22507	D52017-3	mg/l	21.4	100	124	102.6	80-120%
Nitrogen, Nitrate	GP11289/GN22507	D52017-3	mg/1	0.087	5.65	6.7	117.0	80-120%
Sulfate	GP11289/GN22507	D52017-3	mg/1	137	100	251	114.0	80-120%
Weak Acid Dissociable Cn	GP11304/GN22532	D52017-2	mg/1	0.0042	0.1	0.11	105.8	80-120%

Associated Samples:
Batch GP11289: D52017-1, D52017-2, D52017-3
Batch GP11304: D52017-1, D52017-2, D52017-3
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits



MATRIX SPIKE DUPLICATE RESULTS SUMMARY GENERAL CHEMISTRY

Login Number: D52017

Account: CDRMSCOD - Colorado Division of Rec, Mining & Safety Project: Cresson Project

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP11289/GN22507	D52017-3	mg/l	21.4	100	124	0.0	20%
Nitrogen, Nitrate	GP11289/GN22507	D52017-3	mg/l	0.087	5.65	6.8	1.5	20%
Sulfate	GP11289/GN22507	D52017-3	mg/l	137	100	251	0.0	20%

Associated Samples:

Batch GP11289: D52017-1, D52017-2, D52017-3

(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

